

# **ANNUAL REPORT 2008-09**

**Karnataka State Pollution Control Board**

**Parisara Bhavan, # 49, Church Street,  
Bangalore - 560 001**



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## Chapter-1

### 1.1 INTRODUCTION

Decisions were taken at the United Nations Conference on the Human Environment held in Stockholm in June, 1972, to take appropriate steps for the preservation of the natural resources of the earth which, among other things, include the preservation of the quality of Water, Air and control of Water & Air pollution.

In accordance with the decision of United Nations, the Government of India has taken initiative to provide for Prevention and Control of Water Pollution and maintenance or restoration of wholesomeness of water. As a major legal frame work for Prevention and Control of water pollution, the Water (Prevention and Control of Pollution) Act, 1974 was enacted as a first initiative. The Karnataka State Pollution Control Board (KSPCB or 'The Board') was constituted as the 'Karnataka State Board for the Prevention and Control of Water Pollution' by the Government of Karnataka on 21.9.1974, under the Water (Prevention and Control of Pollution) Act 1974 (in short the Water Act). Later as per the Water (Prevention and Control of Pollution) amendment Act 1988 (Art.53 of 1988), the name of the Board was amended as Karnataka State Pollution Control Board. Initially the mandate of the Board was only to implement the Water Act 1974; subsequently the Board was given the responsibility of implementing the Water (Prevention and Control of Pollution) Cess Act, 1977, the Air (Prevention and Control of Pollution) Act, 1981 and a series of Rules and Notifications under the Environment (Protection) Act, 1986.

Over the years, the Board's functions have expanded, in keeping with urbanisation, industrialisation and development in all the spheres that go into making Karnataka a progressive destination that offers both quality of life and economic development. The KSPCB has come to implement and regulate the compliance of air, water and environmental laws and Rules that are intended to ensure least damage to the environment and maximum benefit to society.

Emerging technologies and scientific advancement offer solutions even as they pose new risks and challenges. Today's environmental problems cannot be solved through traditional regulatory mechanisms alone, and the Board is acutely aware that in order to strike a balance between development and industrialisation on the one hand and protecting our natural resources on the other, we shall have to marshal the combined expertise, perspectives and resources of the best in academics, industry and administration.

The Board recognizes that its role extends beyond enforcement of the laws and regulating the implementation of the Rules. We need to look ahead into the future to anticipate potential threats to



human health and the environment. This is being achieved by bringing awareness among the public and other stake holders.

As we move towards achieving the objective of our mission, the Board, has set itself some goals-to meet the challenge posed by climate change through initiatives that will ensure cleaner air; to work for access to clean and safe water, and most importantly, to emphasise on compliance by stakeholders and the Board's important role in environmental stewardship.

The Annual Report for the financial year 2008-09, presents, the Board's environmental programmes and financial performance over the fiscal year. It demonstrates the KSPCB's commitment to be accountable for results, and it articulates the Board's intention of continuing in the coming year to move towards its long-term goals of protecting the environment and human health.

The Annual Report will show how the Board has laid the groundwork for a cleaner environment by working with stakeholders and steering them towards cleaner technology and better compliance with environmental laws, using the partnership and stewardship means rather than merely playing as enforcement agency.

The Report also shows how the Board, through its many initiatives is engaging with the citizens through education and awareness in making collective responsibility towards greener Karnataka, thus underlining the motto that environmental responsibility is everyone's, not just the Board's or the Government.

## **1.2 The major environmental legislations and its objectives are as under:**

### **1. The Water (Prevention & Control of Pollution) Act, 1974; amendment 1988 and the Rules there under;**

This Act provide for Prevention & Control of Water Pollution by abating discharge of untreated trade and domestic effluent by the industries and local bodies; maintaining or restoring of wholesomeness of water in river, streams and ground water. The Water Act also provides penalties for contraventions of the provisions of the Act. It also provides for establishing the Central and State Boards and to establish the Central and State Water testing laboratories to enable both to assess the extent of pollution; to lay down standards and establish guilt and default.

### **2. The Water (Prevention & Control of Pollution) Cess Act, 1977 and subsequent amendment in 1992 and 2003; the Rules there under;**

This Act empowered the State Pollution Control Boards to collect cess on the basis of water consumed by persons carrying on certain industries and by local authorities, with a view to





augment the resources of the Central Pollution Control Board and the State Pollution Control Boards, for the prevention and control of water pollution, constituted under the Water Act. This Act inter-alia ensures conservation of water, a very important natural resource.

**3. The Air (Prevention & Control of Pollution) Act, 1981 and Rules there under;**

This Act provides for Prevention & Control of Air Pollution from the industrial plants and to improve the quality of air. It empowers the State Board to lay down standards in consultation with the Central Board having regard to the standards for quality of the air laid down by the Central Board, standards for emission of air pollutants into the atmosphere from industrial plants and automobiles or for the discharge of any air pollutant into the atmosphere from any other source whatsoever not being a ship or an aircraft.

**4. The Environment (Protection) Act, 1986 and the following Rules/ notifications framed under that Act ;**

This is an umbrella Act related to the protection and improvement of environment and the prevention of hazards to the human beings, other living creatures, plant and property. The Act provides for laying down standards for the quality of environment in its various aspects, standards for emission or discharge of environmental pollutants from various sources whatsoever, having regard to the quality and composition of the emission or discharge of environmental pollutants from point sources.

Following Rules have been published under the Environment (Protection) Act, 1986 which is being implemented by the State Board.

**(i) Hazardous Waste (Management, Handling & Transboundary Movement) Rules, 2008, as amended ;**

The Hazardous Waste (Management & Handling) Rules, 1989 was notified by Ministry of Environment and Forest, Government of India during 1989 under the Environment (Protection) Act, 1986. The Rule was amended during January 2000 and again in May 2003. The said Rules were superseded in September 2008 by new Rule titled Hazardous Waste (Management, Handling and Transboundary Movement) Rules, 2008. This Rule ensures safe storage, transport, treatment and disposal of various categories of industrial hazardous wastes specifically mentioned in the Rules. One of the main features of this Rule is that the occupier of the activities generating hazardous wastes or handling the hazardous wastes becomes legally responsible for taking all practical steps to ensure that such wastes are properly handled, labelled, stored and disposed off without any adverse impact on the environment. This Rule also regulates the import and export of the hazardous waste.



**(ii) The Manufacture, Storage and Import of Hazardous Chemical Rules, 1989; amendment 2000;**

This Rule provide the State Pollution Control Boards and certain other Government Departments with necessary power that hazardous chemicals covered in the Rules (above threshold limits) are imported, stored, transported and/or used in an environmentally safe manner. This rule provide the legal provisions for safe handling of various hazardous chemicals with an overall objective to minimize the possibility of chemical accidents by taking adequate on-site and off-site measures.

**(iii) The Bio-Medical Waste (Management & Handling) Rules, 1998; and amendment 2003;**

This Rule provides for safe handling, collection, storage, transportation, treatment and disposal of Bio-medical Waste generated during the diagnosis, treatment or immunization of human beings or animals or in research activity or in the production or testing of biological and including categories mentioned in Schedule to the Rules.

**(iv) The Recycled Plastics Manufacture and Usage Rules, 1999; and amendment 2003;**

This Rule provides for regulating the manufacture and recycling of the plastic carry bags or containers made of recycled plastic for storing, carrying, dispensing or packaging of foodstuffs. The Deputy Commissioner of concerned district is the prescribed authority for enforcement of the provisions of this Rule related to the use, collection, segregation, transportation and disposal. The role of the State Board is limited to manufacturing stage by issuing conditional consent & registration and to ensure compliance to the conditions.

**(v) The Municipal Solid Waste (Management & Handling) Rules, 2000;**

This Rule places responsibility on the municipal authority within their jurisdiction for the implementation of the provisions of this rule, and for any infrastructure development for collection, storage, segregation, transportation, processing and disposal of municipal solid waste. The District Magistrate or Deputy Commissioner of concerned district is responsible for enforcement of the provisions of this Rule. The role of State Board is to grant authorization for the setting-up of land fill facilities and to monitor the ground water, ambient air and leachate quality and also the quality of compost.

**(vi) The Noise Pollution (Regulation & Control) Rules, 2000; and amendment 2002 & 2006;**

This Rule provides for abatement of noise pollution from the sources like industrial activity, construction activity, generator sets, loud speakers, public address systems, music systems, vehicular horns and other mechanical devices which have deleterious effects on human health and the psychological well being of the people. This Rule



regulates and restricts the use of loud speakers/public address system. The authority for enforcement is district magistrate, Police Commissioner, or any other officer not below the rank of the Deputy Superintendent of Police.

**(vii) The Batteries (Management and Handling) Rules, 2001;**

This Rule is applicable to the manufacturer, importer, reconditioner, assembler, dealer, recycler, auctioneer, consumer and bulk consumer of lead acid batteries. It ensures that the used batteries are collected back against the sale of new batteries excluding those sold to original equipment manufacturer and bulk consumer. The responsibility of the manufacturer is to create public awareness through advertisement, publications, posters etc regarding the hazards of lead. Responsibility of the consumer is to return the used battery to the dealer or deliver at designated collection centre. The lead recycler has to get the process registered with the Ministry of Environment and Forest or Central Pollution Control Board. The lead recycling process is monitored by the Board.

**(viii) Environmental Impact Assessment (EIA) Notification, 2006.**

The EIA Notification 2006 is the replacement of the 1994 Notification. Activities covered under this Notification are grouped as category A & B. Category 'A' requires environmental clearance from the Ministry of Environment and Forest, GOI and category 'B' needs environmental clearance from the State Level Environmental Impact Assessment Authority. Environmental clearance is mandatory for scheduled activities for new projects or for expansion or modernisation or change in product mix in existing projects.

As per this Notification, the environmental clearing process are carried out in four stages viz.,

- ✍ Stage (1) Screening (Only for Category 'B' projects and activities)
- ✍ Stage (2) Scoping
- ✍ Stage (3) Public Consultation
- ✍ Stage (4) Appraisal

**(ix) Fly Ash Notification 1999; and 2008;**

The Central Government issued directions for restricting the excavation of top soil for manufacture of bricks and promoting the utilisation of fly ash in the manufacture of building materials such as cement/concrete, fly ash bricks or blocks or tiles or clay fly ash bricks, blocks or tiles or cement fly ash bricks or bricks or blocks or similar products or a combination or aggregate of them in every construction activity within a specified radius of one hundred kilometres from coal or lignite based thermal power plants including



captive power plants and co-generation plants. The proper utilization of fly ash is ensured by the Board, while issuing consent to Thermal Plants.

**(x) Rules for the Manufacture, Use, Import, Export and Storage of Hazardous Micro organism, Genetically Engineered Organisms or Cells, 1989 Rules.**

This Rule empowers the Ministry of Environment and Forest to regulate the activities involving license to manufacture, import and export of micro organism and genetically modified organisms. The committees have been constituted under this Rule which will help the ministry in clearing such projects involving bio-technology. For the implementation at the state level, State Bio-technology Committee and District level Bio-technology Committee has been set-up.

### **1.3 Strengthening of Infrastructure facility**

The Karnataka State Pollution Control Board started functioning after its constitution by the State Government on 21.9.1974. It started functioning from a very small rented premise at K.H.Road (Double Road), Bangalore. The office was shifted to Public Utility Building, M.G. Road, Bangalore during 1976. The Board also established a Central Environmental Laboratory in the same building but, as the activities expanded and infrastructure was also expanded, the laboratory was shifted to "Nirman Bhavan", Dr.Rajkumar Road, Bangalore during 2002.

The State Government has allotted land to the Board at Thimmaiah Road, Saneguruvanahalli, Shivanagar, Bangalore to have its own office building. "Nisarga Bhavan" was built on this land, at a cost of Rs.12.45 crores. The Regional Offices of Bangalore and the Zonal Offices of Bangalore are functioning from this building since 2008. The Central Environmental Laboratory is in the process of being shifted to 'Nisarga Bhavan'. The South Zonal Office of Central Pollution Control Board is also functioning at Nisarga Bhavan.

From 2004, the Head Office of the State Board, is functioning at 'Parisara Bhavan', No.49, Church Street, Bangalore. The building was purchased from Karnataka Industrial Area Development Board at a cost of Rs.21.50 crores and fully furnished with modern modular office facilities. During 2008 the ground floor & first floor works were furnished to set-up Help Desk, Library, Administration Section, Accounts Section and P.R.O Sections. In the third floor an auditorium viz., "Tejaswi sabhangana" was inaugurated and it is being used for conducting meetings, conferences, presentations, and small functions related to Board's activities.

The Board has built its own Regional Office and Regional Laboratory buildings during the last decade at Davangere, Dharwad, Belgaum, Mysore, Hassan and Mangalore; Regional Office buildings have been built at Udupi, Karwar, Tumkur and Kolar.



The Board during the year 1998-99 has established an Urban Eco Park at Peenya, Bangalore. In this park an office building is also constructed initially for Environmental Training Institute (ETI). As ETI has become a society as per the Government decision, they have now moved out. This office building is now being utilized for the functioning of Regional Office Peenya, Bangalore North-2 and the Zonal Office.

#### **1.4 Karnataka Urban Development and Coastal Environmental (KUDCEM) Project (ADB funded) during 2008-2009:**

Karnataka Urban Infrastructure Department & Finance Corporation (KUIDFC) has completed the building at Udipi and handed over to Karnataka State Pollution Control Board. The existing two dilapidated buildings have to be demolished & compound and road work has to be taken up. KSPHC have provided borewell & they have submitted plan for approval to the concerned authority before taking up the work. Tenders were called and work order is issued for the lowest bidders to commence the work. The date of providing foundation stone is to be fixed.

## **Chapter -2**

### **Constitution of the State Board and its functions.**

#### **2.1 Constitution of the State Board including changes therein:**

1. The Karnataka State Pollution Control Board was originally constituted as per Section 4 of the Water (Prevention & Control of Pollution) Act, 1974, vide Notification No. HMA 161 CGE 74, dated 21.9.1974 and it was reconstituted during 1981, 1984, 1991, 1994, 1995, 1997, 1999, 2001, 2002 and 2007. As per the provisions of the Acts, the Board comprises of a Chairman, Member Secretary and 15 other members nominated by the State Government. The members of the Board include the representatives of government, local authorities and state-controlled corporations as also technical experts.

The composition of the Board as on 31-03-2009 is as follows

#### **Chairman**

- ✍ Dr.H.C.Sharathchandra assumed charge on 05-09-06 and continued as the Chairman during the year under report.

#### **Representatives of the State Government**

- ✍ Secretary to Government, Department of Ecology & Environment, Bangalore
- ✍ Secretary to Government, Urban Development Department, Bangalore
- ✍ Commissioner, Industrial Development & Director of Industries & Commerce, Bangalore
- ✍ Commissioner, Transport Department, Bangalore
- ✍ Commissioner, Health & Family Welfare Department, Bangalore



### Representative of local authority

- ✍ Chief Executive Officer, Mysore Zilla Panchayath, Mysore
- ✍ President, Bellary Zilla Panchayat, Bellary
- ✍ Chairman, Dakshina Kannada Zilla Panchayat, Mangalore.
- ✍ Commissioner, Hubli-Dharwad City Corporation, Hubli.
- ✍ Commissioner, Gulbarga City Corporation, Gulbarga

### Non Official Members

- ✍ Sri.T.N.Parmesh, Proprietor, M/s.Chitra Irrigations, Nagamangala Taluk, Mandya District
- ✍ Sri.Venugopal, BE (Mechanical), Bairanayakana Halli, Thyamagondallu Hobli, Bangalore Urban District.
- ✍ Sri.S.C.Chandru, B.E.(Civil), F.I.V., M.I.E., C. Eng.(India), R.T.Nagar, Bangalore.

### Representative of the State Controlled Corporations

- ✍ Managing Director, Karnataka Urban Water Supply & Sewerage Board, Bangalore.
- ✍ Chairman, Bangalore Water Supply & Sewerage Board, Bangalore

### Member Secretary

- ✍ Sri.B.Venkatesh, IFS assumed charge as Member Secretary on 05-09-2007 and continued upto 20-07-2008. Sri.M.S.Goudar, IFS was appointed as Member Secretary by the Government on 15-07-2008 & he assumed charge from 21-07-2008 and continued during the period under report.

### 2.2 Functions of the State Board are as under;

- ✍ to plan a comprehensive programme for the prevention, control or abatement of pollution of streams and wells; and air pollution in the State and to secure the execution thereof;
- ✍ to advise the State Government on any matter concerning the prevention, control or abatement of water pollution and air pollution;
- ✍ to collect and disseminate information relating to water pollution and air pollution and the prevention, control or abatement thereof;
- ✍ to encourage, conduct and participate in the investigations and research relating to problems of water pollution and prevention, control or abatement of water pollution;
- ✍ to collaborate with the Central Board in organising the training of persons engaged or to be engaged in programmes relating to prevention, control or abatement of water pollution and air pollution; and to organise mass education programmes relating thereto;



- ✍ to inspect sewage or trade effluents, works and plants for the treatment of sewage and trade effluents and to review plans, specifications or other data relating to plants set up for the treatment of water, works for the purification thereof and the system for the disposal of sewage or trade effluents or in connection with the grant of any consent as required under the Act;
- ✍ to inspect air pollution control areas at such intervals as it may think necessary, assess the quality of air therein and take steps for the prevention, control or abatement of air pollution in such areas;
- ✍ to lay down, modify or annul effluent standards for the sewage and trade effluents and for the quality of receiving waters (not being water in an inter-State stream) resulting from the discharge of effluents and to classify waters of the State;
- ✍ to lay down, in consultation with the Central Board and having regard to the standards for the quality of air laid down by the Central Board, standards for emission of air pollutants into the atmosphere from industrial plants and automobiles or for the discharge of any air pollutant into the atmosphere from any other source whatsoever not being a ship or an aircraft;
- ✍ to evolve economical and reliable methods of treatment of sewage and trade effluents, having regard to the peculiar conditions of soils, climate and water resources of different regions and more especially the prevailing flow characteristic of water in streams and wells which render it impossible to attain even the minimum degree of dilution;
- ✍ to evolve methods of utilization of sewage and suitable trade effluents in agriculture;
- ✍ to evolve efficient methods of disposal of sewage and trade effluents on land as are necessary on account of the predominant conditions of scant stream flows that do not provide for major part of the year the minimum degree of dilution;
- ✍ to lay down standards for treatment of sewage and trade effluent to be discharged into any particular stream taking into account the minimum fair weather dilution available in that stream and the tolerance limits of pollution permissible in the water of the stream, after the discharge of such effluents;
- ✍ To make, vary or revoke any order-
  - (i) for the prevention, control of abatement of discharges of waste into streams or wells;
  - (ii) requiring any person concerned to construct new system for the disposal of sewage and



trade effluents or to modify, alter or extend any such existing system or to adopt such remedial measures as are necessary to prevent, control or abate water pollution;

- ✍ to lay down effluent standards to be complied with by persons while causing discharge of sewage or sullage or both and to lay down, modify or annul effluent standards for the sewage and trade effluents;
- ✍ to advise the State Government with respect to the location of any industry the carrying on of which is likely to pollute a stream or well;
- ✍ to advise the State Government with respect to the suitability of any premises or location for carrying on any industry which is likely to casue air pollution;
- ✍ to perform such other functions as may be prescribed or as may from time to time, be entrusted to it by the Central Board or the State Government.

### 2.3 ORGANISATION STRUCTURE:

The KSPCB had previously adopted a two tier system of working (consisting of Head office & Regional office). From 01-10-2008, as part of re-structuring the functions for effective supervision of the Regional Offices, eight Zonal Offices headed by Senior Environmental Officers have been established viz., four in Bangalore and four in other parts of the State viz. Udupi, Bellary, Mangalore & Mysore. The organization structure of the Board is given in **ANNEXURE-I**.

The Head Office is in Bangalore with **33** Regional Offices & **8** Zonal Offices spread all over the State to enable the Board to discharge its duties with close proximity to stakeholders. Regional Offices are headed by Regional Officer. Senior Environmental Officer is heading the Zonal Office. There are four Zonal Offices at Bangalore; other Zonal offices are located at Mysore, Dharwad, Bellary and Udupi and the roles and responsibilities of Reginal Officer and Zonal Officer are given in **ANNEXURE - II**.

### 2.4 Laboratory.

The KSPCB has established a Central Laboratory at Bangalore with Regional Laboratories at other places in the State. Regional laboratories are located at Mysore, Dharwad, Mangalore, Gulbarga, Davanagere, Raichur, Hassan and Belgaum.

The Central Environmental Labortatory of the Board has been certified with ISO 9001:2000, Quality Management System Certification by Bureau of Indian Standards, GOI.





The Central Laboratory & Regional Laboratories are well equipped with sophisticated analytical instruments and carries out analysis of water, wastewater, stack emission, ambient air, solid waste, bacteriological samples and bio-assay test.

The Central Laboratory and seven Regional Laboratories have been strengthened with sophisticated laboratory facilities including one mobile laboratory during 2000-2001 under the World Bank aided Industrial Pollution Prevention Project.

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

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

The Board has **300** permanent staff. The details of staff position are given in **ANNEXURE - IV.** There are also **110** contract employees and **160** personnel out sourced from a manpower agency.

## **CHAPTER -3**

### **3.1 COMMITTEES CONSTITUTED BY THE STATE BOARD**

The Board has constituted/reconstituted following committees to assist it in carrying out its activities:

1. Technical Advisory Committee;
2. Library and Laboratory Committee;
3. Three State level Consent Committees at Head Office for issue of Consent for Establishment (CFE) & Expansion for EIA category projects and Consent for Establishment (CFE) & Expansion for Non-EIA category projects and Consent for operation (CFO) and Authorizations. Similar Consent Committees constituted for each Regional Office.
4. Awareness Committee.
5. Legal Advisory Committee.
6. Municipal Solid Waste Management Committee

## **CHAPTER-4**

### **4.0 MEETINGS OF THE STATE BOARD AND MAJOR DECISIONS TAKEN**

During 2008-09, the Board has met 4 times on the following dates;



MEETING NUMBER	DATE
170 <sup>th</sup>	10-06-2008
171 <sup>st</sup>	23-09-2008
172 <sup>nd</sup>	19-12-2008
173 <sup>rd</sup>	26-03-2009

Major decisions of the Board in the above mentioned meetings are;

### 170<sup>th</sup> Board meeting

- o The Board in principle approved to establish 'Continuous Ambient Air Quality Monitoring Stations (CAAQMs) one each at Mysore, Hubli, Belgaum and Mangalore.
- o The Board agreed the proposal for establishing new water quality monitoring stations in the major rivers of the State and to purchase monitoring equipments for this purpose from MERCK Company, Munich, Germany.
- o The Board agreed to allocate a 'revolving fund' of Rs.50 Lakhs in the Budget for providing financial assistance to SSI units for establishing pollution control systems.
- o The Board approved to provide financial assistance upto Rs.50 Lakhs to create a post of a Professor in Hampi Kannada University to carryout research work on environment related issues and publish books on the same. Also, it agreed to create 2-3 Professor posts at 'National Institute of Technology, Karnataka' (NITK) and other Universities during 2008-09 by providing financial assistance upto Rs. 3 Crores from the Water Cess fund, for research and technology development regarding water pollution, industrial effluent, hazardous waste, etc.
- o The Board ratified the sanction of Rs.2 Lakhs for anti-litter awareness campaign.
- o The Board approved the proposal for developing an 'Environmental Park' in 100 Acres land at Kondajji village, Davanagere in coordination with Forest Department; by providing financial assistance of about Rs.50 Lakhs from water cess fund of the Board.

### 171<sup>st</sup> Board Meeting

- o The Board ratified the sanction of Rs.4 Lakhs to the 'International children film festival-2008 and the program 'a AEE a AAazE a APMA 1 EP AA'.
- o The Board ratified the sanction of Rs.3,41,931/- towards sponsoring the program on 'global warming and climate change', telecast by Akashvani, Bangalore.



- o The Board in principle agreed the proposal for third party auditing of Laboratories of the Board and also Board recognized laboratories by following provisions of Transparency Act before finalizing the agency and entrusting the auditing work.

### 172<sup>nd</sup> Board Meeting

- o The Board extended the term of the existing 'Awareness Committee' and reconstituted the 'Technical Advisory Committee' (TAC), 'Library and Laboratory Committee' (L&LC). The term of these committees was extended upto 31-12-2009. .
- o The Board accorded administrative approval for estimated cost of Rs.798.4 Lakhs for the of buildings for Regional Offices at Bijapur, Bagalkot, Chikkamagalur, Chitradurga & Mandya, construction of Laboratory building at Bellary and green building construction for Regional Office- Gulbarga.
- o The Board ratified the sanction of Rs.2 Lakhs towards sponsoring the national level workshop on 'Plants Conservation'.
- o The Board approved the proposal for creation of KSPCB-Chair for Hazardous Waste Management at 'Institute of Environment and Hazardous Material Management (IEHMM)'.
- o As per the recommendations of the 'Steering Committee', the Board to contribute Rs.2 Crores for developing TSDF for hazardous waste disposal.
- o The Board approved to constitute Regional Office Level consent committees.
- o Re-constitution of State Level consent committees and constitution of three State level consent committees, one each for CFE (EIA) projects, CFE (Non-EIA) and CFO (consents for operation & authorizations).
- o Delegation of powers to the Chairperson, Member Secretary and Officers of the Board under Hazardous Waste (Management, Handling and Transboundary Movement) Rules, 2008.
- o The Board accorded approval for the sanction of Rs.2 Lakhs for sponsoring International Children Film Festival-2009.

### 4.1 MEETINGS OF THE TECHNICAL ADVISORY COMMITTEE (TAC)

The Technical Advisory Committee (TAC) was re-constituted by the Board vide OM NO:KSPCB/220/vol-3/CC/2008-09/4068, dated:10-02-2009 and tenure upto 1 year from 10-02-2009 and has members as indicated in **ANNEXURE-V (A) and (B)**.



The TAC provides technical advice to the Board in matters relating to pollution control proposals, etc. submitted by the industries and local authorities; makes suggestions for stipulating standards for liquid effluents, gaseous emissions and other allied technical matters. It also evaluates technical objections, suggestions recorded during the Environmental Public Hearing.

During the financial year under report, the TAC has met 7 times on the following dates;

Meeting number	Date	Meeting number	Date
338 <sup>th</sup>	24.05.2008	342 <sup>nd</sup>	17.10.2008
339 <sup>th</sup>	17.06.2008	343 <sup>rd</sup>	16.01.2009
340 <sup>th</sup>	06.08.2008	344 <sup>th</sup>	20.03.2009
341 <sup>st</sup>	30.08.2008		

The Committee has deliberated the following important projects;

- † The proposed capacity expansion of M/s.ACC Limited, New Wadi Cement Plant, Clinker production (from 3.0 MTPA to 4.6 MTPA) and Captive Power Plant (from 75 MW to 125 MW), Wadi, Gulbarga District.
- † M/s.Gangagen Biotechnologies Pvt. Ltd., Hennur Road, Banaswadi Layout, Bangalore – 560 043 to be relocated Opposite to MEI Limited, Yeshwanthpur, Bangalore.
- † Establishment of Iron Ore Pelletization Plant of capacity 20,00,000 TPA at Sy.No.43, 44, 81 to 84 & 177, Kunikera & Hirebaganal Villages, Koppal Taluk & District by M/s. Xindia Steels Ltd.
- † Establishment of Crude Oil Storage and Handling Facility of capacity 1.5 Million Tons at Kalavar Padavu, Mangalore D.K. District by M/s.Indian Strategic Petroleum Reserves Limited.
- † Establishment of new industry for manufacture of Refined Lead and Lead Alloy each of capacity 50 TPD at Plot No.42 & 43, 2nd Main, 2nd Phase, Peenya Industrial Area, Bangalore by M/s. Safe Metals.
- † Expansion of existing industry to increase the production in the existing premises at No.42 & 43, II Phase, Peenya Industrial Area, Bangalore by M/s.Microtex Energy (P) Ltd, (Old name M/s. Microtex Saparators (Pvt) Ltd).



- † Establishment of Sector specific Special Economic Zone for Precision Engineering at Sy.No.118, 437/A, 438 & 439, Hattaragi Village, Hukkeri Taluk, Belgaum District by M/s. Quest SEZ Development Pvt. Ltd.
- † Establishment of new industry for collection, processing, testing and storage of Human Stem Cells at No.183, EPIP Industrial Area, Opposite to Netra Tech Park Road-1B, White Field, Bangalore by M/s.Cryo-Save (India) Pvt. Limited.
- † Establishment of new Research & Development laboratory to carryout contract research, analytical development and validation for product optimization etc. at Plot No.303-306, VITC model, Export Park, 4th Phase, Peenya Industrial Area, Bangalore, by M/s.Viziphar Biosciences Pvt. Limited.
- † Establishment of new Research and Development Laboratory at 3rd & 4th Floor, Campus-C, RMZ Centennial, Plot No.8-A, B, C & D, Doddanekundi Indl. Area, Bangalore – 48, by M/s.Agilent Technologies India Pvt. Limited.
- † Establishment of new Cement Plant of capacity 4 Million TPA and Captive Power Plant of capacity 40 MW at different survey numbers of Yadwad Village, Gokak Taluk, Belgaum District, by M/s. Dalmia Cement (Bharat) Limited.
- † Establishment of new Speciality Chemical manufacturing unit at Plot No.94(P), 103 & 104, Pharmaceutical SEZ, KIADB Industrial Area, Hassan, by M/s.Kumar Organic Products Limited.
- † Establishment of new Speciality Chemical manufacturing unit at Plot No.94 (P), 103 & 104, Pharmaceutical SEZ, KIADB Industrial Area, Hassan by M/s. Kumar Organic Products Ltd.
- † Expansion of existing industry to manufacture additional bulk drugs at Plot No.77-D/116/117, KIADB Industrial Area, Jigani, Anekal taluk, Bangalore by M/s. Intermed Labs Pvt. Ltd.
- † Establishment of new industry in place of existing industry to manufacture Herbal based Drugs at Sy.No.570/1, 570/2, 571/B, Venkatapura, Shirali, Bhatkal Taluk, U.K. District by M/s. Beloorbayir Biotech Limited.



- † Establishment of New Biotech industry to manufacture Phytase Enzymes of capacity 248 TPA at 25-C, KIADB I Phase, Kumbalgodu, Mysore Road, Bangalore by M/s. V-5 Biotech.
- † Establishment of new industry to manufacture Sodium Iodide, Pottasium Iodide, Copper Iodide and Methyl Iodide of capacity 8 TPM at Plot No.9, KIADB Industrial Area, Chikkaballapura Taluk & District by M/s. Dynarex Technology (India) Ltd.
- † Establishment of industry to manufacture bulk drugs at Plot No.15, KHB Indl. Area, Yelahanka, Bangalore Urban District by M/s. R.L. Fine Chem.
- † Establishment of new industry to manufacture drug intermediates at Plot No.32, KIADB Industrial Area, Chikkaballapura, Karnataka by M/s. Unique Laboratories (P) Ltd.
- † Consent for establishment for setting up of a molasses based distillery of capacity 60 KLPD and 18 MW co-generation plant at Kerkalamatti village, Badami Taluk, Bagalkot District by M/s. Kedaranatha Sugar and Agro Products Limited.
- † Expansion of industry by installing (i) 350 mm x 350 mm single bloom caster, (ii) 30 TPH pusher type Reheating Furnace at primary mill installation and 2.1 MVA DG Set in their existing plant at M/s. Vishweshwaraya Iron & Steel Plant, Bhadravathi, Shimoga District.
- † Establishment of new R & D Laboratory to carryout Research on Drug Discovery and to have Animal testing facilities to find out the effectiveness of the drug at Plot No.29, Bommasandra Industrial Area, Anekal Taluk, Bangalore by M/s. Connexios Life Sciences Pvt. Ltd.
- † Expansion of existing industry to develop newer agents to control Bacterial Infections in Human/Animals in the existing premises at No.12, 5th Cross, Raghavendra Layout, Opp: to MEI Ltd, Tumkur Road, Yeshwanthpur, Bangalore by M/s. Gangagen Biotechnologies Pvt. Ltd
- † Establishment of new R & D Laboratory to carryout Testing & Associated services for Clinical Trails at Sy.no.55/18 & 59/9, Bommanahalli, Hosur Main Road, Bangalore by M/s. Icon Central Laboratory.



- † Establishment of industry to carryout the R & D activity in area of Building blocks, Process chemistry, Analytical research, Library synthesis for fine chemicals, Food & flavour; Cosmetic & health care industries, generation of samples and biotechnology products at Plot No.2, Bommasandra – Jigani Link Road, 4th Phase, Bommasandra Industrial Area, Bangalore – 560 099 by M/s. Biocon Research Ltd.
- † Establishment of Firing oil blending unit using Hazardous wastes like Spent solvents and residues along with Cashew nut shell oil as raw materials at Plot No.284, Kolhar Industrial Area, Bidar by M/s. Mehanaz Industries.
- † Establishment of new incinerator for burning the incinerable Hazardous wastes generated at Plot No.54(P), Kolhar Industrial Area, Bidar – 585 403 by M/s. Vivimed Labs Ltd., (Unit-III).
- † Establishment of new R & D activity at Plot No.48-51, Electronic City, Hosur Road, Bangalore by M/s. 3M India Ltd.

#### 4.2 Library and Laboratory Committee

Library and laboratory committee was re-constituted by the Board vide OM No.KSPCB/183/CC/2008-09/3973, dated: 31-01-2009 to assist in strengthening & up-gradation of laboratories of the Board for effective functioning. The list of library and laboratory committee members is given in **ANNEXURE VI (A & B)**. The tenure of the committee is extended upto 31-12-2009

During the financial year, the committee has taken following decisions:

Meeting Number	Date of the meeting	Important decisions taken
77	10-04-2008	<ul style="list-style-type: none"> <li>✍ Procurement of PM 2.5 samplers and analytical micro balance.</li> <li>✍ Implementation of LIMS software at Regional Laboratory, Mysore.</li> <li>✍ Purchase of Portable Colorimeters and reagent sachet to Regional Officers.</li> <li>✍ Empanelment of 7 Private Laboratories and 8 Educational Institutions.</li> </ul>
78	16-07-2008	<ul style="list-style-type: none"> <li>✍ Disposal of old and unused chemicals at Central Environmental Laboratory.</li> </ul>



		<ul style="list-style-type: none"> <li>✍ Laboratory related procurement procedure to be handled by CSO.</li> <li>✍ Grading, Training and analytical Quality Control checks to empanelled Laboratories.</li> </ul>
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### 4.3 Awareness Committee

This committee was re-constituted by the Board vide OM No:KSPCB/CC/459/2008-09/3969, dated:30-01-2009 to verify the proposals relating to environmental awareness activities received by the Board including 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 VII (A &B)**. The tenure of this committee extended upto 31-12-2009.

During the financial year the committee met on the following dates:

Meeting Number.	Date of the meeting.
21	02-04-2008
22	21-07-2008
23	22-10-2008
24	10-12-2008
25	13-02-2009

### Important decisions taken:

Grant of funds for carrying out various Environment Awareness programmes, workshops, seminars, etc. throughout the State were resolved.

### 4.4 Legal Advisory Committee (L.A.C)

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, the 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 Advocates and a Board Officer as members





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

The committee continued to function during the year under report and has met 54 times and given advice/opinion on various matters.

#### **4.5 Committee for issue of authorizations under Municipal Solid Waste Management Rules, 2000.**

The Board in its 145<sup>th</sup> meeting held on 28-05-2002, approved the constitution of the Committee for issue of authorization under the Municipal Solid Waste (Management & Handling) Rules, 2000 and further delegation of powers to Chairman and Member Secretary to issue authorizations. Hence, MSW Committee was constituted as per Rule 6(2) of the MSW Rules vide Board Office letter dated: 03-07-2002. The Committee examines the proposals submitted by the Municipal Authorities and takes decisions on issue of authorization under MSW Rules for setting up of waste processing and disposal facility including landfill and to comply with Schedule-I of said Rules. The committee consists of the following members (senior level Officers);

- |  |   |                 |
|--|---|-----------------|
| 1. Member Secretary, KSPCB   | - | Chairman        |
| 2. Representative from State Urban Development Department  | - | Member          |
| 3. Representative from Department of Municipal Administration  | - | Member          |
| 4. Representative from Town & Country Planning Department  | - | Member          |
| 5. Representative from Air Port or Air Base Authority  | - | Member          |
| 6. Representative from the Department of Mines and Geology (Ground Water Authority) (Senior Level Officer/ Senior Scientist) | - | Member          |
| 7. Head of EMPRI   | - | Member          |
| 8. Officer in charge of MSW Rules, Head Office, KSPCB  | - | Member Convener |



## CHAPTER-5

### 5.0 ACTIVITIES OF THE STATE BOARD DURING THE YEAR 2008-2009

The KSPCB set up in 1974, is mandated under the Water Act 1974 and Air Act 1981, to prevent and control pollution of water and air, through enforcement, education, awareness and offering scientific and technological solutions to achieve its goals of cleaner and greener environment.

The Board discharges responsibilities derived from various enactments of laws on every aspect of the environment.

The Water (Prevention and Control of Pollution) Act 1974 and the Air (Prevention and Control of Pollution) Act 1981 specifies the functions of the State Board under Section 17 of the Acts.

Further, the Board has to implement a wide range of legal duties touching on almost every aspect of environment. Major activities carried out by the Board during 2008-2009 are described below;

#### 5.1 Consent administration:

Under the provisions of the Water (Prevention & Control of Pollution) Act, 1974 and the Air (Prevention & Control of Pollution) Act, 1981, industries or any other organization which discharges trade or sewage effluent or emits air pollutant will have to obtain consent from the Board. The following types of consents are issued viz.

- ✍ 'Consent for Establishment'(CFE) for new industry before establishment or for expansion of existing industry
- ✍ 'Consent for Operation'(CFO) after establishment which is to be renewed periodically

Depending on their pollution potential, the Board has classified the industrial units into three categories: Red, Orange and Green. The red category units have maximum pollution potential, the Orange category units have moderate pollution potential and the Green category units have the least pollution potential. The categorization of industries is at **ANNEXURE – VIII. Consent fee structure is at ANNEXURE - IX**

In order to simplify the procedure for filing of applications in respect of Orange and Green category industries, a simplified common application form under the Water and the Air Act has been prescribed. The applications under this category are cleared by the Board on priority.

Depending on the type and size of organization, decisions on grant or refusal of consents are taken either at the Head Office or at the Regional Office level. In order to introduce transparency and involve stake holders in consent administration, Consent Committees have been constituted



both at the Head Office and at each Regional Office level. Representatives of industries or its Association, technical experts and others are included in the Committees. The Committees will recommend grant or refusal of consent.

There are two Committees constituted at Head Office level for issuing CFE & CFO. The CFE Committee at Head Office is headed by the Chairman and CFO Committee by the Member Secretary. The list of members of the Head Office level Consent Committees is given in **ANNEXURE - X- (A, A1, B, B1, & C)**. The committees meet regularly.

In the interest of streamlining the consent administration the delegation of powers was revised as indicated below vide OM dated:21-01-2008.

- ✍ Consent for Establishment (CFE), Consent for Expansion (CFExp) & first Consent For Operation (CFO) for all categories of industries/organizations to be issued at Head Office.
- ✍ All renewal of Consent for Operations (CFOs) for Red category industries/organisations with capital investment more than Rs.5 crores to be issued at Head Office.
- ✍ All renewals of CFOs for categories of industries/organisations other than those mentioned above to be issued at Regional Office

During the period under report, the Head Office CFE Committee has met **29** times [CFE- 25 times, CFE (EIA)- 2 times & CFE (Non-EIA)- 2 times] & CFO Committee has met **26** times and number of subjects brought before these committees are **1281 & 1611** respectively. The subjects include agenda regarding consent applications filed for establishing new industry/ expansion of existing industry (CFE), consent applications for operation of industry under the Water Act & the Air Act (CFO), authorization applications under Hazardous Waste (Management & Handling) Rules, 1989, Fly ash related application and Plastic industry- registration applications.

## 5.2. Environmental Public Hearing.

The EIA Notification 2006 is the replacement of the 1994 Notification. Activities covered under this Notification are grouped as category A & B. Category 'A' requires environmental clearance from the Ministry of Environment and Forest, GOI and category 'B' needs environmental clearance from the State Level Environmental Impact Assessment Authority. Environmental clearance is mandatory for scheduled activities for new projects or for expansion or modernisation or change in product mix in existing projects.

As per this Notification, the environmental clearing process are carried out in four stages viz.,



- ✍ Stage (1) Screening (Only for Category 'B' projects and activities)
- ✍ Stage (2) Scoping
- ✍ Stage (3) Public Consultation
- ✍ Stage (4) Appraisal

The role of the KSPCB is to fix the date of public hearing in consultation with the Deputy Commissioners & to assist the DC in conducting the public hearing. The proceedings of the hearing will be forwarded to either MoEF or SEIAA as the case may be. Totally 89 Public Hearings were held during 2008-09 is at **ANNEXURE - XI**

### 5.3 Environmental Monitoring

Board is monitoring various parameters of environment to assess major changes in the environmental quality to take decisions and to evolve action plans to protect the environment. Monitoring not only covers ambient air quality, surface and ground water quality, but also effluents, emissions, soil, noise and solid waste within the premises of the industry and other properties.

Total number of samples analyzed during 2008-2009 in all the laboratories is **49,559**.

The details of number of samples analyzed during the year 2008-2009 by central and regional laboratories are given in **ANNEXURE- XII**. The monitoring of the industrial effluents and emissions are carried out to verify the compliance to the consents. Wherever, the samples were found not meeting the stipulated limits, actions have been taken under the statutes viz., personal hearings, filing court cases, issuing directions for restraining the discharge of effluents or issuing directions for closure etc.

During the period under report an amount of **Rs.87,79,041/-** has been collected for analyzing various types of samples in Board laboratories, which includes analysis charges received from CPCB towards samples analysed under NWQMP & NAAQMP.

#### 5.4.1(a) River Water Quality Monitoring

The Board is monitoring and analyzing river water samples under 'Global Environmental Monitoring System' (GEMS) (5 locations), 'Monitoring Indian Natural Aquatic Resources System' (MINARS) (40 locations) and under Board's Programme (19 locations).

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- XIII - A, XIII- B & XIII- C**.



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

### **Inference on the River Water Quality Monitoring**

Central Pollution Control Board has specified water quality criteria depending on the designated best use and activities in the river. The classifications are

Class "A" – Drinking water source without conventional treatment but after disinfections.

Class "B" – Out door bathing (organized)

Class "C" – Drinking water source after conventional treatment and disinfection

Class "D" – Propagation of wild life, fisheries

Class "E" – Irrigation, Industrial, Cooling, Controlled Waste.

Monitoring of the major rivers under various programmes indicate that; the major pollutants into these water bodies are mainly the organic and bacterial contamination. This is mainly due to the domestic waste discharged into the rivers from the towns and villages located on the banks. Secondly the quality has a bearing on the flow which will be lean during the non monsoon seasons.

At the following three locations, the treated industrial effluents are permitted for discharge into the rivers. The water quality at these locations about 100 meters downstream of the treated effluent discharge point are as under;

- a. Mysore Paper Mills treated effluent into Bhadra River near Bhadravathi, Shimoga district.  
The Bhadra river water quality conforms to Class-C during the reporting period.
- b. Harihara Poly Fibres and Grasilene Division treated combined effluent into Tungabhadra river near Harihar, Haveri District.  
The Tungabhadra river water quality conforms to Class-C during the non monsoon period and Class-B during the month of July, August and September.
- c. West Coast Paper Mills Ltd treated effluent into Kali river near Bangur Nagar near Dandelhi, Uttara Kannada District.  
The Kali river water quality conforms to Class-C during the non monsoon period and Class-B in the month of October 2008.

At all other locations the river water quality is generally conforming to Class-C and Class-B.



### 5.4.1.(b) Bio-mapping of Tunga Bhadra River

To assess the periodic changes in environmental quality Bio-monitoring was carried out at 15 stretches of Tunga, Bhadra and Tungabhadra rivers using macro-invertebrates as indicators, since they are sensitive to changes in habitat and pollution. Water, sediment and biological samples were collected and the sampling was carried out bi-monthly for a period of one year. Samples were collected from micro-habitats for the study so as to get a representative picture. The water quality classes were assigned to each sampling location with respect to combinations of saprobic and diversity score of benthic macro invertebrates collected. The biological water quality criteria are based on the range of saprobic values and diversity of benthic macro-invertebrates families with respect to water quality. The monitoring has been completed and reporting is under process.

- ✍ **Status of earlier programmes:** Project on Bio-mapping of major rivers in Karnataka was carried out during the year 2006-07. The project has been completed and the report on the same has been published.
- ✍ **Proposed activities during 01-04-2009 to 31-03-2010 :** Project on 'Residual Analysis of Pesticides in selected fruits and vegetables in and around Bangalore'.

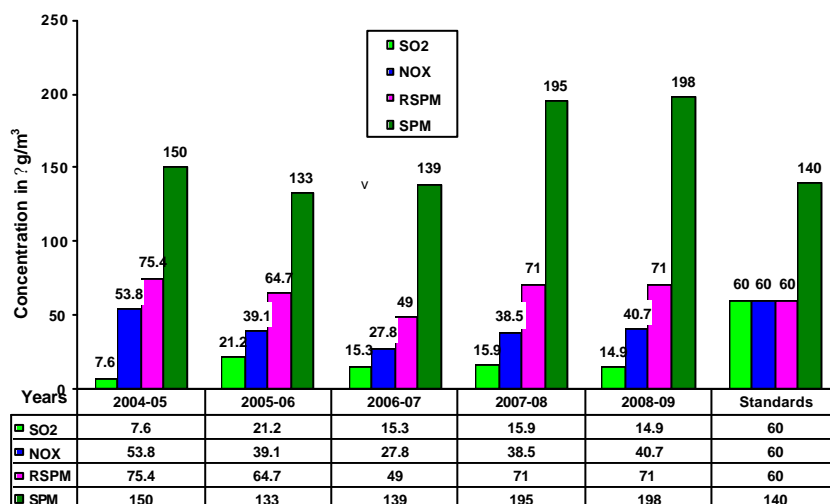
### 5.4.2 Ambient Air Quality Monitoring:

#### Ø National Ambient Air Quality Monitoring Programme (NAAQM), Bangalore

Ambient air quality of Bangalore city is being monitored at six stations under NAAQMP. Monitoring is being carried out at a frequency of twice a week for 24 hours at six stations 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 **10,628** samples were collected and analyzed during the year 2008-2009. The results of monitoring are given below

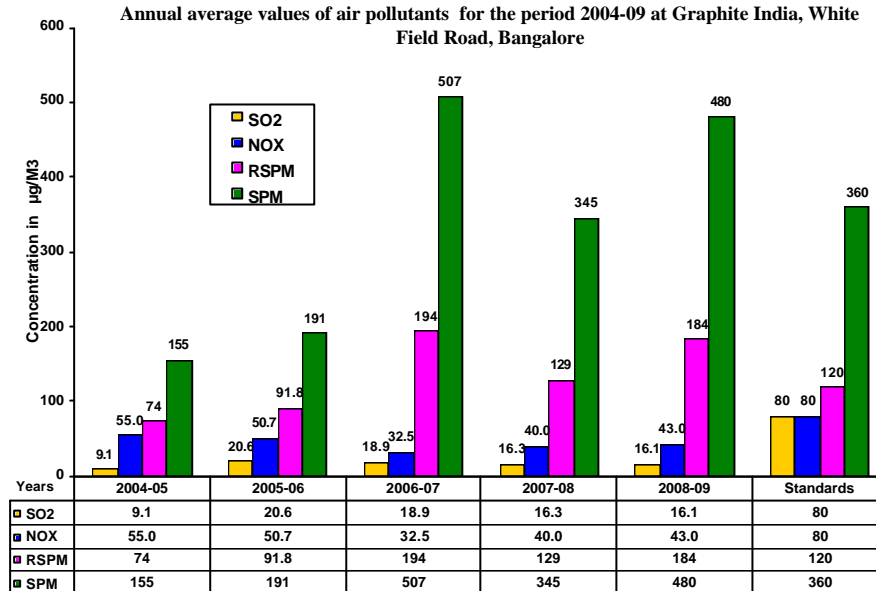
#### Ambient Air Quality at AMCO Batteries, Bangalore

Annual average values of air pollutants for the period to 2004-09 at Amco Batteries, Bangalore

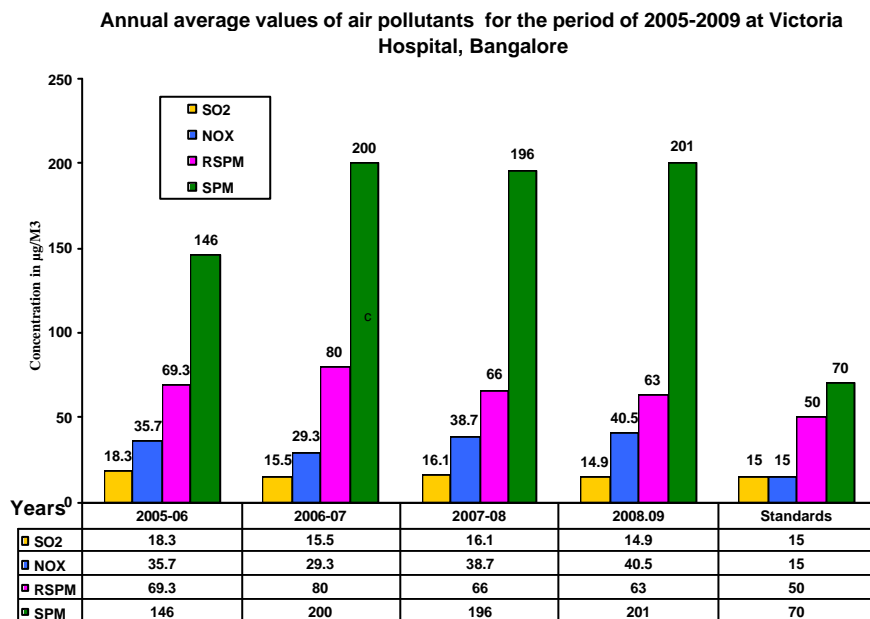




## Ambient Air Quality at Graphite India Ltd., Bangalore



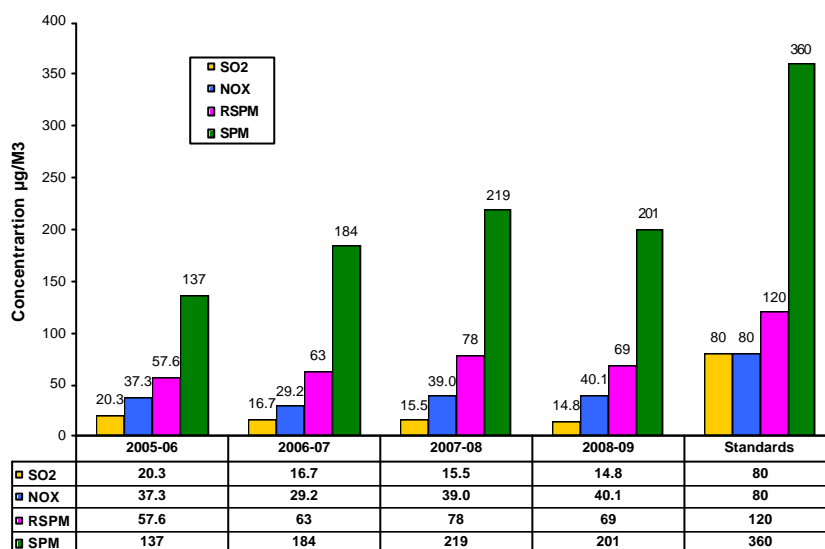
## Ambient Air Quality in Victoria Hospital, Bangalore





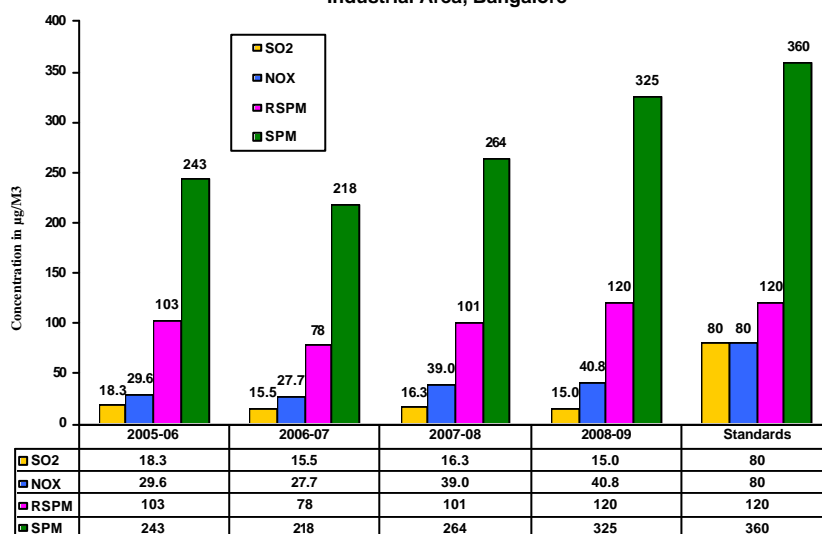
## Ambient Air Quality in KHB Industrial Area, Yelahanka, Bangalore

Annual average values of air pollutants for the period of 2005-2009 at KHB Indu. Area, yelahanka, Bangalore



## Ambient Air Quality in Peenya Industrial Area, Bangalore

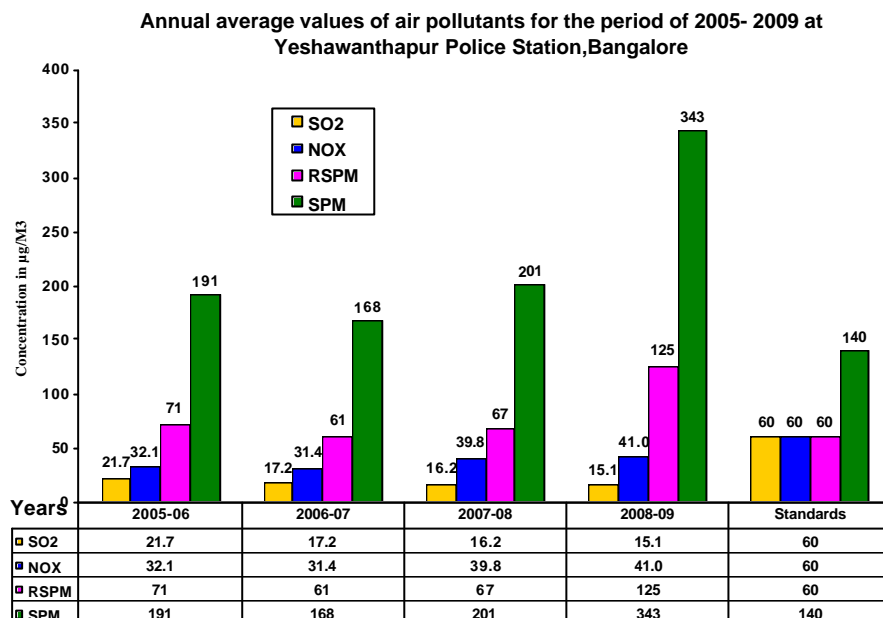
Annual average values of air pollutants for the period of 2005-2009 at Peenya Industrial Area, Bangalore



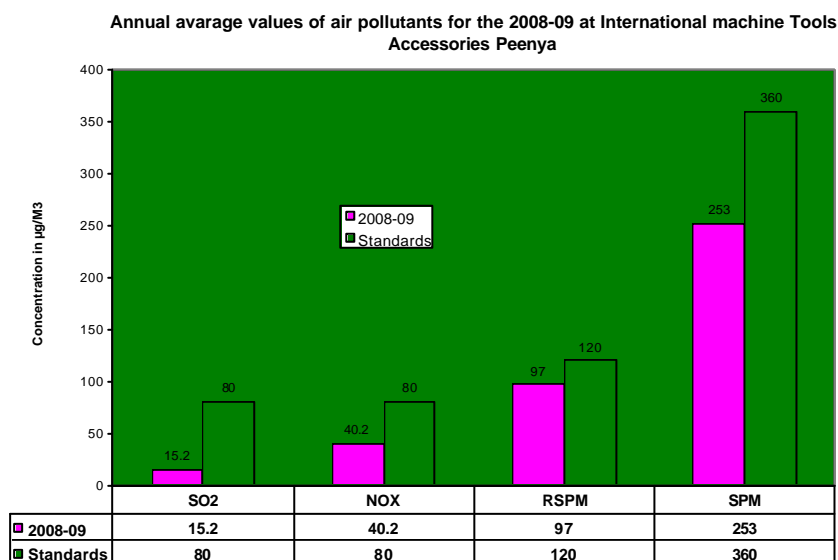




## Ambient Air Quality in Yeshwanthpur Police Station, Bangalore



The annual average results of AAQM done under Board's program at International Machine Tools Accessories (IMTA), Peenya Industrial Area is as below;



The Board has carried out monitoring of ambient air quality in different parts of the State. The details of ambient air quality monitored in various parts of the State are given in next page. The Board has also undertaken monitoring of ambient air quality during Deepavali festival in major cities/ towns of the State.


**AMBIENT AIR QUALITY AT OTHER LOCATIONS IN THE STATE**

Regional Office	Name of the Location/ Station	Type of Area (Industrial, Residential, Rural & other areas & Sensitive)	Sampling height from ground level	Frequency of monitoring (Minimum 2 days in a week)	Duration of monitoring (Minimum 24 hrs a day)	No. of days monitored	Total No. of samples collected	Monitoring Results			
								SPM $\mu\text{g}/\text{M}^3$	RSPM in $\mu\text{g}/\text{M}^3$	SO <sub>2</sub> $\mu\text{g}/\text{M}^3$	NOX $\mu\text{g}/\text{M}^3$
1	2	3	4	5	6	7	8	9	10	11	12
Mandya	KSPCB Building, Regional Office, Mandya	Residential	4.5 mts	Weekly twice	24 hrs	100	1782	115.6	65.9	15.0	21.0
Hassan	KSRTC, Bus Stand Building Hassan	Residential Rural & other area	5 mts	Weekly twice	24 hrs	108	1944	127	49	4.3	20.5
Mysore	KSRTC, Bus/Stand, Mysore	Residential Rural & other area	10.0 mts	Weekly twice	24 hrs	104	1872	90	45	14.3	18.8
	Regional Office, KSPCB, Mysore	Industrial	8.0 mts	Weekly twice	24 hrs	105	1854	85	43	13.4	18.7
Dakshina Kannada	Baikampady Indl. Area, Mangalore	Industrial	6 mts	Weekly twice	24 hrs	105	945	114.60	57.24	7.42	6.28
Dharwad	Rani Chennamma Circle, Hubli (Opp. NWKRTC Bus Stand)	Others (Commercial)	4 mts	Weekly twice	24/8 hrs	98	1764	202	92	3	12
	Lakkammanhalli Indl. Area. Dharwad	Industrial	10 mts	Weekly twice	24/8 hrs	84	1512	211	99	3	13
Gulbarga	Govt. General Hospital	Sensitive	5 mts	Weekly twice	24 hrs	92	1656	193	71	2.48	13.74



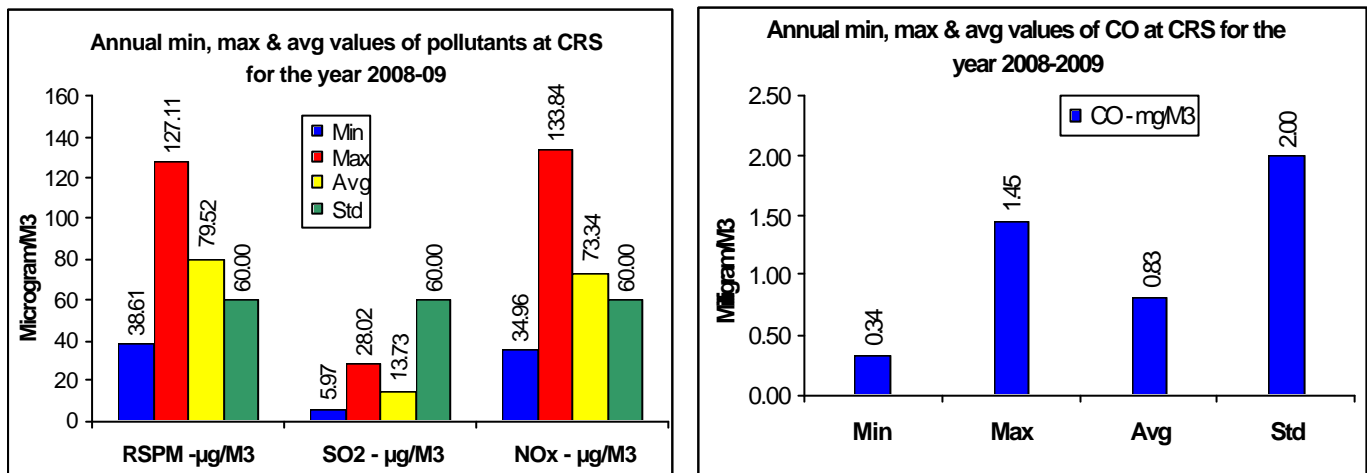
Bijapur	Terrace of Gandhi Chowk Police station, Bijapur	Commercial	6mts	Twice in a month	8 hrs	10	12	394.57	139.9	-	-
	Terrace of KSPCB Office, Bijapur	Residential	3.5 mts	Twice in a month	8 hrs	10	12	230.85	125.81	-	-
Belgaum	KSPCB Office Building	Industrial	6 mts	Weekly twice	24 hrs	102	1782	74.25	33.5	2	14.66
	On office Terrace	Residential	5 mts	Weekly once	8 hrs	57	57	94	-	-	-
Chitradurga	Regional Office Building	Residential	8 mts	Weekly twice	8 hrs	8	8	136.74	67.53	-	-
	Regional Office	Residential Building	8 mts	4 days during Deepawali festival	24 hrs	4	12	406	354	38.89	13.25
Shimoga	The Mysore Paper Mills Ltd	Industrial	3 mts	Once in a month	8 hrs	2	2	183	-	17.6	33
	The VISL, Oxygen plant	Industrial	3 mts	Once in a month	8 hrs	2	2	198.5	-	18	32
Raichur	On office Terrace	Commercial	7 mts	Weekly twice	8 hrs	59	353	183	63	3.27	13.2
	Mothi Talkies P.B. Road	Commercial	4 mts	Weekly twice	8 hrs	71	426	161.72	299.14	11.34	23.74
Davanagere	Regional Office Building	Residential	6.5 mts	Weekly twice	8 hrs	27	162	49.28	45.83	10.22	19.98
	HPF Guest House	Industrial	6.5 mts	Weekly once	8 hrs	44	308	97.33	-	19.69	9.51
Ranebennur of Haveri	HPF Ltd water intake well	Industrial	6 mts	Weekly twice	8 hrs	25	308	110.34	-	19.98	9.81
	Port Directors Office	Rural & other areas	5 mts	Weekly twice	24 hrs	18	150	297.81	81.52	2.5	14.04
Karwar	Belekeri Police Station	Rural & other areas	3 mtrs	Weekly twice	24 hrs	4	8	274	135.25	-	-



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

Karnataka State Pollution Control Board has installed and commissioned two Continuous Ambient Air Quality Monitoring Stations (CAAQMS) i.e, one at City Railway Station, Bangalore and another at Nisarga Bhavan, Saneguruvanahalli, Bangalore. The annual average data (2008-09) generated by CAAQM Stations at city Railway station and SG Halli at KSPCB premises is as follows. The stations are operating 24 hrs 365 day, the generated data is being sent to CPCB through E-mail everyday at 2.00 PM.

### Annual average concentration of pollutants at City Railway Station during 2008-09

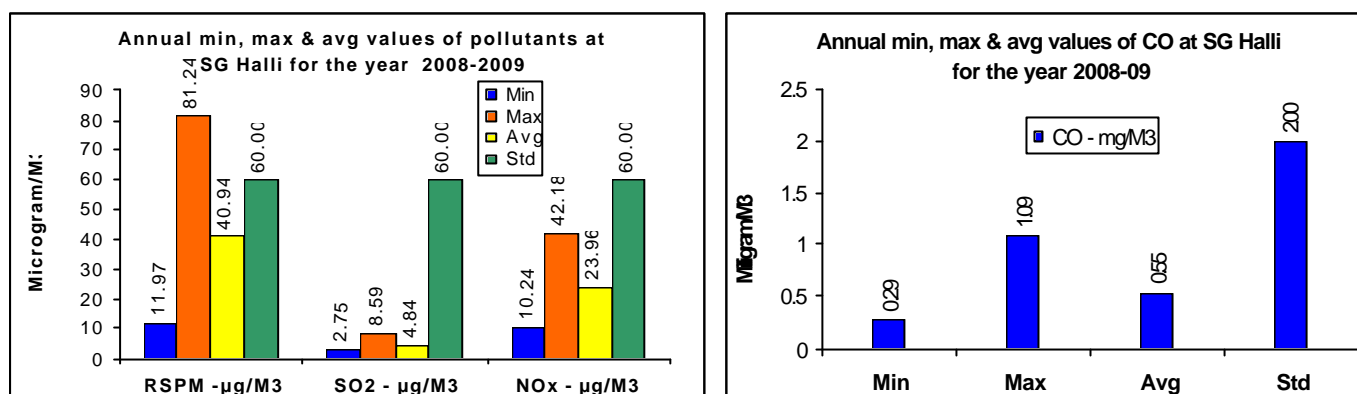


The annual average concentrations of pollutants at City Railways Station are shown in the above **Figures**.

- (i) The SO<sub>2</sub> concentration (13.72  $\mu\text{g}/\text{M}^3$ ) is not exceeding during the period 2008-09 when compared to National Ambient Air Quality Standards (NAAQS) (annual average of 60  $\mu\text{g}/\text{M}^3$ ).
- (ii) The NO<sub>x</sub> concentration (73.34  $\mu\text{g}/\text{M}^3$ ) exceeded during the period 2008-09 when compared to the National ambient air quality standards (NAAQS) (annual average of 60  $\mu\text{g}/\text{M}^3$ ).
- (iii) The RSPM concentration (79.52  $\mu\text{g}/\text{M}^3$ ) exceeded during 2008-09, when compared to the National Ambient Air Quality Standards (NAAQS) (annual average of 60  $\mu\text{g}/\text{M}^3$ ).
- (iv) The CO concentration (0.83 mg/M<sup>3</sup>) not exceeded during 2008-09, when compared to the National Ambient Air Quality Standards (NAAQS) (annual average of 2.0 mg/M<sup>3</sup>).



### Annual average concentration of pollutants at S.G.Halli during 2008-09



The annual average concentrations of pollutants at S.G.Halli ( KSPCB premises) are shown in the above **Figures**.

- (i) The SO<sub>2</sub> concentration (4.84 µg/M<sup>3</sup>) is not exceeding during the period 2008-09 when compared to National Ambient Air Quality Standards (NAAQS) (annual average of 60µg/M<sup>3</sup>).
- (ii) The NO<sub>x</sub> concentration (23.96 µg/M<sup>3</sup>) is not exceeded during the period 2008-09 when compared to the National ambient air quality standards (NAAQS) (annual average of 60 µg/M<sup>3</sup>).
- (iii) The RSPM concentration (40.94 µg/M<sup>3</sup>) is not exceeded during 2008-09, when compared to the National Ambient Air Quality Standards (NAAQS) (annual average of 60 µg/M<sup>3</sup>).
- (iv) The CO concentration (0.55 mg/M<sup>3</sup>) is not exceeded during 2008-09, when compared to the National Ambient Air Quality Standards (NAAQS) (annual average of 2.0 mg/M<sup>3</sup>).

### 5.5 Noise Pollution Control

The Board is monitoring noise levels whenever 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 during bursting of fire crackers during Deepavali festival at 30 stations. The monitoring has been done in all the district head quarters on 21st, 27th, 28th & 29th of October 2008.

#### **5.5.1 Ambient Noise Monitoring during - Deepavali 2008.**

Karnataka State Pollution Control Board has conducted ambient noise level monitoring for short duration (5.00 PM to 11.00 PM) at 4 Locations in Bangalore, ie, AECS layout (Residential area), Vijayanagar Club (Residential area), Indiranagar ESI Hospital (Sensitive area) and Cubbonpet (Commercial area) on Normal days and during Deepavali celebrations. The noise level data is presented in Graph-1.

The Board has also conducted ambient noise level monitoring at 11 cities of Karnataka during Deepavali – 2008 for short duration (5.00PM to 11.00PM) ie, Hassan, Mangalore, Dharwad, Kolar, Bijapur, Davanagere, Gulbarga, Chitradurga, Mandya, Mysore and Raichur on normal days and during Deepavali days. The noise level data is presented in Graph -2.

#### **Ambient Noise level at Bangalore city during Deepavali Festival 2008**

The ambient Noise level monitoring was carried out in Commercial area (Cubbonpet), Residential area (AECS layout and Vijayanagara club), and Sensitive area (ESI Hospital at Indiranagar) one day before Deepavali, during Deepavali. The noise levels in different areas are as follows.

##### **a) Commercial area (Cubbonpet)**

The results of noise measurement before Deepavali and during Deepavali are 66 and 72 dB (A) Leq during night time. The measured values exceeds the prescribed limit of 55 dB(A) before and during Deepavali.

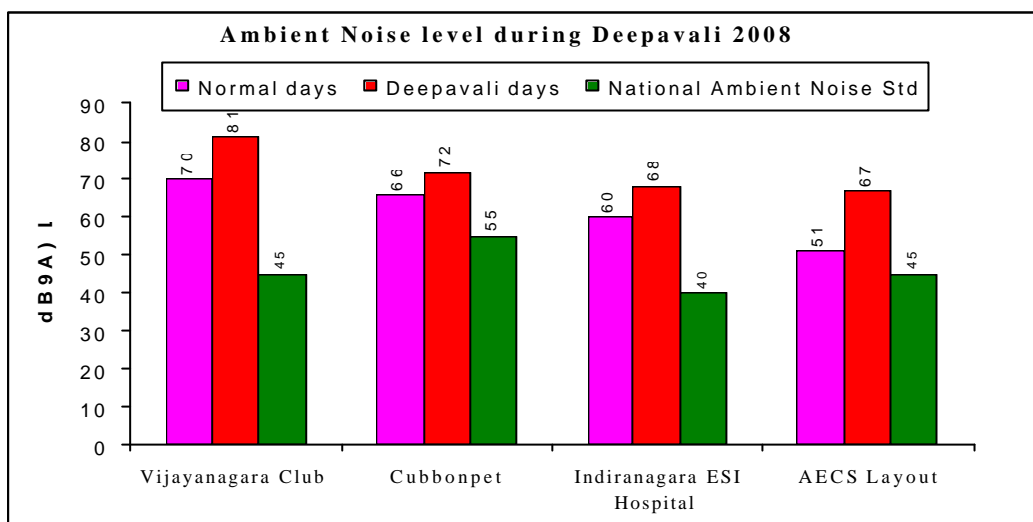
##### **b) Residential Areas (AECS layout and Vijayanagara club),**

The results of noise measurement before Deepavali and during Deepavali are 51 and 67 dB (A) Leq during night time at AECS layout and 70 and 81 dB (A) Leq at **Vijayanagara club**. The measured values exceeds the prescribed limit of 45 dB (A) before and during Deepavali at both the places



### c) Sensitive area (Indiranagar ESI Hospital)

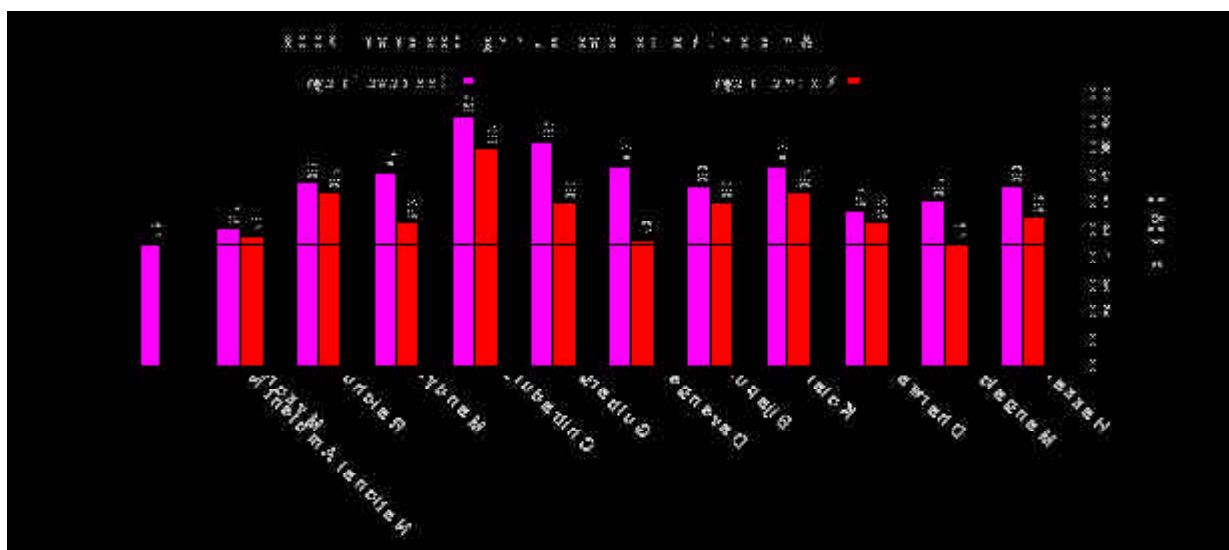
The results of noise measurement before Deepavali and during Deepavali are 60 and 68 dB (A) Leq during night time. The measured values exceeds the prescribed limit of 40 dB(A) before and during Deepavali



Graph-1 : Ambient Noise level at different parts of Bangalore city during Deepavali Festivals 2008

### Ambient Noise level at Major Cities of Karnataka during Deepavali Festival 2008

The ambient Noise level monitoring was carried out before and during Deepavali Festival at Residential areas in 11 cities of Karnataka during night time. The results of noise measurement before Deepavali and during Deepavali are 55 and 66 dB (A) at Hassan, 45 and 61 dB(A) at Mangalore, 53 and 57 dB(A) at Dharwad, 64 and 73 dB(A) at Kolar, 60 and 66 dB(A) at Bijapur, 41 and 73 dB(A) at Davanagere, 60 and 82 dB(A) at Gulbarga, 80 and 92 dB(A) at Chitradurga, 53 and 71 dB(A) at Mandya, 48 and 51 dB(A) at Mysore, 64 and 68 dB (A) at Raichur respectively. The measured values of noise levels exceeds the prescribed limit of 45 dB (A) for Residential area before and during Deepavali



Graph-2 : Ambient Noise level at Major Cities of Karnataka during Deepavali Festival 2009

### Inference on Ambient Noise Monitoring during Deepavali 2008 vis-a-vis normal days.

The Ambient air quality standards in respect of noise for different areas/zones are as follows:

Area Code	Category of area/zone	Limits in dB (A) Leq*	
		Day time	Night time
(A)	Industrial Area	75	70
(B)	Commercial Area	65	55
(C)	Residential Area	55	45
(D)	Silence Zone	50	40

The noise levels monitored during Deepavali festival days at all the locations mentioned above have shown higher levels of noise when compared with the prescribed national ambient noise levels. Even during the normal days, the noise levels are significantly exceeding in Bangalore at the monitoring stations. The reason being movement of vehicles and other commercial activities. However in Mangalore, Davangere and Mysore, the noise levels during normal days are marginally exceeding the national limits.

## CHAPTER-6

### 6.0 Present state of Environmental Problems and Counter Measures:

The Karnataka State Pollution Control Board has covered **47,958** organizations (this includes industries, hotels, Coffee pulping units, mines, Hospitals, Layouts and local bodies) under pollution control laws during the reporting period. **2292** working industries have been covered under the Hazardous Waste (Management & Handling) Rules, 1989.





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

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

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

1. Bhadravathi (Bhadra River).
2. Harihar (T.B.River).
3. Dandeli (Kali River).

## **6.1 ENVIRONMENTAL COMPLIANCE BY SOME OF THE IDENTIFIED INDUSTRIAL SECTORS:**

Mining, sponge iron, distilleries and coffee estates are some of the focus areas of concern in terms of the pollution load and the impact on the general environment.

### **6.1(a) Pollution Control Status in Mining Sector**

Mining is one of the main industrial activities in Karnataka. The major minerals being mined are Iron Ore, Limestone and Dolomite. The Iron Ore mining is mainly confined to Bellary, Chitradurga & Tumkur Districts and the Limestone mining is located in the Districts of Bagalkot, Belgaum & Bijapur. During 1980's, the major mining activity was started in Chickmagalur District with the setting up of Kudremukh Iron Ore Company Limited (KIOCL). Recently, due to the boom in the market, large scale mining has taken place in Bellary and also in Chitradurga & Tumkur Districts.

In Karnataka 602 Mines have been covered under the Pollution Control Acts. The total mine lease area in the State is 51,240 Hectares, out of which, 25,751.32 Hectares is in Revenue Land, 16,688.20 Hectares is in Forest Land and 8,801.88 Hectares is in Patta Lands.

Initially, the KSPCB started covering only few major mining companies under the Water & Air Acts like National Mineral Development Corporation (NMDC), Donimalai, and KIOCL, as they were using water for mining activity and discharging tailings. These mines were also covered under the Air Act to take care of emissions from crushers, DG Sets and other point sources.



In 1994, the Government of India notified the Environmental Impact Assessment Notification under the Environment (Protection) Act 1986. This notification made it mandatory for certain projects including mines to obtain prior Environmental Clearance (EC) from Ministry of Environment & Forests (MoEF), Government of India (GOI). Mining projects more than 5 Hectares in area were covered under this notification. No objection Certificate (NOC)/ Consent for Establishment (CFE) was a prerequisite for applying to MoEF for EC. Therefore, from 1994 onwards, the KSPCB started receiving application from mines seeking NOC/CFE. The applications were considered with reference to the Rapid Environment Impact Assessment (REIA) reports and IBM approved mining plan which incorporates Environmental Management Plan (EMP) to take care of run-off, waste dumps, provision of check dams, etc., which were submitted along with the application and then NOC/CFE were issued from water & air pollution control point of view only.

#### **Action initiated by KSPCB for control of pollution in mining activity:**

KSPCB has taken steps to strictly implement the provisions of the Water (Prevention & Control of Pollution) Act 1974, and the Air (Prevention & Control of Pollution) Act 1981. The details relating to production, water & air pollution control measures adopted by the mines, compliance to previous consent conditions, etc., are verified thoroughly while issuing consent for operations. Further, the Board stipulates the following pollution control measures while issuing consents to the mining activity.

- ✍ To provide check dams, gully-traps etc., to prevent the run off from carrying the fine particles of ore and silt. The mines are also being insisted to de-silt the check dams regularly.
- ✍ Fines, sub-grade ore, mineral rejects, over burden and side burden etc., to be stored as dumps in the mine lease area and to be stabilized.
- ✍ Retaining walls have to be provided to stabilize the dumps.
- ✍ Afforestation has to be carried out on the slopes of the dumps.
- ✍ Sprinkling of water constantly in the mine lease area including approach roads.
- ✍ To metal and asphalt the roads inside the mine lease area as well as the approach road to the mines.
- ✍ To transport ore in a covered truck in wet condition always.



- ✍ Even at yards, moisture content has to be maintained to prevent the dust nuisance.
- ✍ Providing conveyor belts within the mine lease area for ore transportation to avoid fugitive emissions due to movement of trucks.

### Recent developments:

- ✍ The EIA Notification 1994 has been superseded by a new Notification with effect from 14.9.2006.
- ✍ The State Government has introduced Environmental Protection Fees @ Rs.84,000/- per Hectare in respect of mines located in Revenue/Patta lands as compensatory afforestation charges.
- ✍ Recently, at the instance of Government of India, the State Government has constituted State Level and District Level Task Forces in which the KSPCB is also participating.
- ✍ District Level Task Force Committees are under the Chairmanship of Deputy Commissioner. These Committees are looking into the aspects of mining, monitoring and other local environmental issues.
- ✍ The State Government has come-out with a mining policy called as KSMP 2008, under which the environmental issues are also addressed.

### 6.1(b) Pollution control status in Sponge Iron sector:

In Karnataka 47 sponge iron units are operating. Most of the units are located in the districts of Bellary (33) and Koppal (7) as iron ore is available in this region (Bellary- Sandur - Hospet belt). In Karnataka all the units use Coal based technology.

The Ministry of Environment and Forests (MoEF), GoI has notified standards for sponge iron units vide Notification No. GSR 414(E) dated 30/05/2008. As per the Notification, the chimney height for the Kilns is calculated based on the fuel consumption and the Sulfur content of the fuel. Further, a minimum chimney height of 30 m is stipulated for all de-dusting facilities.

The Sponge iron units are not significant from water pollution point of view as, water is used only for domestic and cooling purposes and the cooling water is completely recycled. However, these units are very significant from air pollution point of view. The main sources of air pollution from these units are loading & unloading of raw materials, crushing & processing of raw materials, storage of raw material, kiln and de-dusting facilities, vehicular movements. The following conditions are stipulated and implemented by the Board to mitigate air pollution from these industries.



- ✍ Storage of raw materials within the closed sheds.
- ✍ Bag filters for all raw material processing and de-dusting facilities.
- ✍ Electrostatic Precipitator (ESP) to the Kiln with interlocking between the working of Kiln and the ESP.
- ✍ Metalled roads within the premises.
- ✍ Water sprinkling in the raw material storage and handling area and haulage roads.
- ✍ Regular monitoring of ambient air quality and stacks.

Out of 47 sponge iron units, 45 units have complied with consent conditions by providing the stipulated air pollution control equipments to control the source emissions. Out of two non complying units during the reporting period one unit has not obtained environmental clearance and the other has not provided the required air pollution control measures. The consent for these units, are refused.

### 6.1.(C) Pollution Control Status in Distilleries

The Charter on Corporate Responsibility for Environmental Protection published by Ministry of Environment and Forests and Central Pollution Control Board during March 2003 for the 17 category of industries, includes the distillery sector wherein the distilleries are expected to utilize 100% spent wash. The State Board encouraged the Karnataka Breweries and Distilleries Association to take up R & D study for effective utilization of spent wash for agriculture purpose. The Central Pollution Control Board has come out with protocols for;

- (a) Utilization of spent wash for ferti irrigation;
- (b) Utilization of spent wash for composting;
- (c) Application of bio methanated spent wash for one time controlled land application.

Distilleries in Karnataka are following any one or a combination of the following method depending on local conditions.

1. Biomenthanisation followed by composting
2. Concentration and composting
3. Direct composting



4. Biometnahisation, two stage secondary treatment in aerobic treatment and ferti-irrigation
5. Concentration and spray drying
6. Biomenthanisation followed by one time controlled land application
7. Concentration & incineration.

Board is monitoring the distilleries to check the compliance.

The status of implementation of the above action plan in the distilleries in the State is as under;

Sl. No.	Method of treatment of spent wash	Number of Distilleries
1	Biomenthanisation followed by composting	09
2	Concentration and composting	02
3	Direct composting	02
4	Biometnahisation, two stage secondary treatment in aerobic treatment and ferti-irrigation	01
5	Biomethanisation, onetime controlled land application, composting and spray drying	01
6	Biomethanisation, concentration and spray drying	01
7	Biomenthanisation followed by composting and partial one time controlled land application	07
8	Biomethanisation, composting and ferti irrigation	02
9	Concentration, incineration and composting.	01

During the reporting year, Bannari Amman Sugars Ltd. in Mysore district has completed the erection of Concentration and Incineration plant. The condensate from the concentrator is treated in RO plant, permeate is recycled in the process and the reject is composted. The ash from the incinerator is mixed with compost and disposed as manure. This is the first distillery in the State to install the concentration and incineration system.



#### 6.1.(d) Status of Coffee pulping units:

There are number of Coffee estates mainly in Coorg, Chikkamagalur, & Hassan Districts, out of which **2,261** coffee pulping 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. 43 units are having effluent treatment plants, 2165 units are having temporary treatment facilities. During the pulping season coffee pulping units are monitored and if discharge into water bodies are observed, prohibitory orders are issued. During the year under report 7 prohibitory orders have been issued.

The status of coffee pulping units is as follows:

Number of coffee pulping units.	2261
Number of units having ETP.	43
Number of units having temporary treatment facilities	2165
Number of units where ETP under planning stage.	1593
Number of units obtained consent under Water Act.	864
Number of consents Refused.	1
Number of Prosecution launched.	Nil
Number of Prohibitory Orders issued.	7
Number of Closure Orders issued.	Nil
Number of Proposed Directions issued.	5
Number of Notices issued for not applying for consent.	726



## 6.2 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 the Water and the Air Acts. The Board has stipulated guidelines for siting of industries which facilitates both the entrepreneur as well as the Board to locate industry in an environmentally safe location. The siting guidelines are at **ANNEXURE – XIV**. While issuing consents, conditions are being imposed regarding the effluent standards and also emission standards which the industries have to comply with. Compliance to conditions stipulated will be regularly monitored by the staff of Regional Offices by verifying the operation and maintenance of pollution control systems and by collecting and analyzing the samples of effluents and emissions. The industries are 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 & treated effluents [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 and recycle, reduce, recover concept.

The Ministry of Environment & Forests, Government of India, in its Notification No. S.O. 1533(E) dated: 14-09-2006 has specified the projects which require prior environmental clearance from the Central/State level. The notification also prescribes the process of public consultation. The Board during the financial year 2008-09 has conducted 89 public hearings for the projects attracting the provisions of EIA Notification.

### (A) Consent status:

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

#### Summary of consents processed:

	Water Act	Air Act
No. of consent applications received	7205	8506
No. of consent application pending	739	859
No. of consent application refused	26	81
No. of consent applications returned	410	630



The Board during the year under report has issued **1434** 'Consent for Operation' under the Water (Prevention & Control of Pollution) Act, 1974, **1963** 'Consent for Operation' under the Air (Prevention and Control of Pollution) Act, 1981, **4680** common consents under both Water & Air Acts and **1729** Consent for Establishment/ expansion of industries.

Details of consents issued earlier to 01.04.2008 and are valid during the period under report is as follows;

#### Summary of consent validity:

Consent Validity	Issued prior to 01.04.2008		Issued during 01.04.08 to 31.03.09	
	Water Act	Air Act	Water Act	Air Act
Consent valid for two years	354	369	369	350
Consent valid for three years	377	416	393	385
Consent valid for five years	18	19	5	5
Consent valid for ten years	2787	3824	331	404

#### (B) Personal Hearings

In order to ensure compliance by the defaulting industries the Board invites the industries for technical discussions. Apart from this where actions are to be taken under section 31(A) of the Air Act or 33 (A) of the Water Act an opportunity of being heard is given as per the statutory requirement. During the year 2008-09, 287 hearings were held and decisions taken as appropriate. The details are in **ANNEXURE-XV**





## (C) Details of inspections conducted during 2008-09:

Sl.No.	Regional Office	Large	Medium	Small	L.B.	Complaints	Others
1	Bangalore City 1	204	117	202	-	32	5
2	Bangalore City 2	43	5	5	-	20	204
3	Bangalore City 3	74	60	119	-	26	12
4	Bangalore North 1	222	60	143	14	2	7
5	Bangalore North 2	163	94	142	6	31	62
6	Bangalore Peenya	56	144	717	-	23	1
7	Tumkur	89	60	216	7	12	26
8	Bangalore South 1	204	117	202	-	32	5
9	Bangalore South 2	180	80	88	3	8	29
10	Bangalore West	182	80	176	20	24	-
11	Bangalore East 1	356	92	73	52	11	11
12	Bangalore East 2	67	94	116	10	8	199
13	Kolar	51	38	95	2	3	1
	Chikkaballapura	13	30	105	2	3	1
14	Belgaum	156	50	508	7	1	28
15	Bagalkot	101	9	220	6	17	7
16	Dharwad	81	65	206	7	20	-
	Gadag	3	2	57	7	10	-
	Haveri	5	18	67	7	7	-
17	Bijapur	24	7	557	12	15	221
18	Davangere	44	21	262	8	26	1
19	Bellary	91	85	101	10	33	3
20	Gulbarga	30	15	94	3	21	2
21	Bidar	53	35	143	4	7	85
22	Raichur	69	25	220	12	29	2
23	Chitradurga	67	60	222	10	9	30
24	Koppal	48	14	222	-	52	-
25	Udupi	21	41	237	3	8	40
26	Mangalore	259	100	264	10	10	101
27	Shimoga	81	24	272	16	12	-
28	Chikkamagalur	13	9	105	4	20	3
29	Karwar	66	26	253	15	11	57
30	Mysore	297	119	338	10	33	48
	Coorg	11	8	153	-	2	2
31	Mandya	105	22	241	25	8	72
32	Chamarajanagar	8	5	83	6	4	15
33	Hassan	89	64	493	22	24	-
		<b>3626</b>	<b>1895</b>	<b>7717</b>	<b>320</b>	<b>614</b>	<b>1280</b>



(D) Regional Office wise details of newly identified industries, hospitals, mines, layouts and hotels during 2008-2009, are given below:

Sl. No.	RO	Industries			Hospitals	Mines	Layouts	Hotels	others	Total
		Large	Medium	Small						
1	Bagalkote	-	1	-	4	-	-	12	77	94
2	Bangalore City 1	2	-	8	2	-	-	9	66	87
3	Bangalore City 2	12	11	76	8	-	-	2	-	109
4	Bangalore City 3	31	12	14	3	-	6	3	20	89
5	Bangalore East 1	11	14	27	-	-	13	1	30	96
6	Bangalore East 2	4	16	7	1	-	-	1	-	29
7	Bangalore North 1	12	20	29	2	-	-	2	11	76
8	Bangalore North 2	21	29	22	5	-	29	2	17	125
9	Bangalore Peenya	8	16	22	1	-	50	3	-	100
10	Bangalore South 1	17	6	17	-	-	-	-	-	40
11	Bangalore South 2	-	19	5	-	-	1	-	15	40
12	Bangalore West	5	11	28	-	-	1	-	-	45
13	Belgaum	6	1	27	27	8	-	-	-	69
14	Bellary	1	-	40	12	5	-	-	-	58
15	Bidar	-	3	19	10	-	-	-	-	32
16	Bijapur	4	6	65	3	-	-	-	-	78
17	Chamarajanagar	-	-	61	28	-	-	-	1	90
18	Chikkamagalur	-	-	36	-	-	-	-	-	36
19	Chitradurga	-	-	12	-	2	-	-	-	14
20	Davangere	4	2	10	38	-	1	-	-	55
21	Dharwad	-	-	2	7	-	-	-	-	9
22	Gulbarga	1	12	35	9	1	-	-	-	58
23	Hassan	2	-	14	-	4	-	-	11	31
24	Karwar	3	8	39	-	1	-	-	-	51
25	Kolar	-	-	28	-	-	-	-	-	28
26	Koppal	10	5	83	14	-	-	1	29	142
27	Mandya	3	5	70	11	-	-	-	-	89
28	Mangalore	2	1	47	-	-	-	-	-	50
29	Mysore	2	1	31	-	-	-	12	-	46
30	Raichur	14	15	42	5	-	6	11	63	156
31	Shimoga	2	4	43	30	-	1	3	-	83
32	Tumkur	2	1	22	1	-	-	1	25	52
33	Udupi	6	1	42	-	-	-	-	-	49
	<b>Total</b>	<b>185</b>	<b>220</b>	<b>1023</b>	<b>221</b>	<b>21</b>	<b>108</b>	<b>63</b>	<b>365</b>	<b>2206</b>



### **(E) Complaints redressal :**

During the year under report, the Board has received **1,107** complaints, out of which, **1,042** complaints have been disposed.

### **6.3 Status of 17 category highly polluting industries**

There are 134 operating industries under this category in the State. These industries are required to comply with the provisions of the Water Act, the Air Act and the provisions of the Environmental (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.

The status of compliance to the conditions imposed and standards stipulated by these industries is given in **ANNEXURE-XVI**.

#### **6.3.1 Charter on Corporate Responsibility for Environment Protection (CREP)**

MoEF have evolved “Charter on Corporate Responsibility for Environmental Protection (CREP)” during March 2003 which enlists action points for compliance by 17 category highly polluting industries. These action points addressed to corporate bodies as well as Regulatory agencies. Thus, the charter is 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). Thus, it is not necessarily limited to compliance of end of the pipe effluent and emission standards.

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 & insist for bank guarantee in respect of non-complying units along with action plan to ensure compliance. However, the recommendations of CREP are voluntary in nature and not a statutory requirement. National level task forces have also been constituted by MOEF to monitor the implementation of CREP. These task forces are meeting regularly.

In line with this and in order to appraise the industries about the CREP, series of meetings were held with each industry sector falling under 17 category. All the industries have drawn action plan to implement the action points and have by and large complying with it. The action points have been included as conditions in the consents issued to the industries. The implementation is being closely monitored.



### 6.3.2 Promotion of ISO 14000 standards:

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 the 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 management 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 it-self 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 139<sup>th</sup> meeting has recommended to make ISO 14001 certification compulsory for highly polluting industries. As on 31.03.2009, **123** industries have obtained ISO 14001 certification, out of which 20 industries are 17 category industries.

### 6.4 Implementation of Hazardous Waste (Management, Handling and Transboundary Movement) Rules, 2008

The Hazardous Waste (Management & Handling) Rules, 1989 was notified by Ministry of Environment and Forest, Government of India during 1989 under the Environment (Protection) Act, 1986. The Rule was amended during January 2000 and again in May 2003. The said Rules were superseded in September 2008 by new Rule titled Hazardous Waste (Management, Handling and Transboundary Movement) Rules, 2008.

The Board has covered **2,292** hazardous waste generating industries in the State and issued authorization.



#### 6.4.1 Quantity of Hazardous Waste

The quantity of hazardous waste generated has been assessed based on the authorisations issued and classified as under

☞	Recycleable/reprocessible waste	: 52,656 MT PA
☞	Incinerable waste	: 4,077 MT PA
☞	Landfillable waste	: 18,922 MT PA
	<b>Total</b>	<b>: 75,655 MT PA</b>

District wise generation of Hazardous Waste is given in the table in the next page



### Hazardous waste generated in Karnataka State (District wise)

Inventory/estimate of HW generation in Karnataka from working industries as on 31st March 2009

Sl. No.	District	Total No. of Industries	Total Qty HW Generation In MT/A	Landfillable HW MTA	Recyclable HW MTA	Incinerable HW MTA
1	Bagalkot	31	49.0	2.0	45.6	1.4
2	Belgaum	95	1047.1	530.1	319.0	198.0
3	Bellary	47	983.8	215.0	730.0	38.8
4	Bidar	36	626.7	381.7	172.9	72.1
5	Bijapur	25	320.1	-	316.0	4.1
6	Chamarajanagar	3	3.2	-	2.5	0.8
7	Chikkamagalur	9	33.6	-	33.6	-
8	Chitradurga	32	98.0	-	93.0	5.0
9	Coorg	2	8.7	-	8.7	-
10	Davanagere	22	239.2	40.9	198.2	0.1
11	Dharwad	64	722.6	229.6	490.1	2.9
12	Gadag	7	95.4	0.6	91.8	3.0
13	Gulbarga	30	283.5	-	283.4	0.1
14	Hassan	27	198.7	29.8	161.9	7.0
15	Haveri	14	48.7	14.6	30.8	3.3
16	Karwar	22	1074.9	5.9	149.0	920.0
17	Kolar	53	288.7	184.8	27.7	76.3
18	Koppal	22	112.9	-	110.2	2.7
19	Mandya	25	634.5	465.9	158.6	10.0
20	Mangalore	114	9459.3	998.6	8058.6	402.1
21	Mysore	124	25561.4	4521.6	20612.1	427.7
22	Raichur	21	174.3	125.1	46.0	3.2
23	Shimoga	53	245.9	150.3	94.3	1.3
24	Tumkur	50	1623.5	7.6	1615.3	0.7
25	Udupi	34	30.1	6.1	24.1	-
26	Bangalore City-1	131	3324.6	1187.0	1726.0	411.6
27	Bangalore City-2	109	812.7	225.7	551.4	35.6
28	Bangalore City-3	111	974.1	505.0	457.0	12.1
29	Bangalore East-1	166	2996.5	1292.0	1534.5	170.0
30	Bangalore East-2	63	577.9	412.5	145.8	19.6
31	Bangalore North-1	77	2679.8	483.4	2071.5	124.9
32	Bangalore North-2	65	977.7	164.3	710.3	103.1



33	Bangalore South-1	178	3670.8	1570.9	1863.0	236.9
34	Bangalore South-2	172	8757.7	1343.5	7082.8	331.4
35	Bangalore Peenya	171	1512.1	619.1	787.5	105.5
36	Bangalore West	87	5407.2	3208.1	1852.7	346.4
	<b>Bangalore Urban &amp; Rural</b>	1330	28366.5	9824.5	17056.5	1485.5
	<b>Other Dist</b>	962	47288.3	9097.0	35599.3	2592.0
	<b>Karnataka</b>	<b>2292</b>	<b>75654.8</b>	<b>18921.5</b>	<b>52655.9</b>	<b>4077.5</b>

### Reprocessable waste;

As per the Rules, the recycleable/reprocessable waste has to be handed over only to the authorized recyclers. 94 Hazardous Waste recycling units (eg: reprocessing of used oil, waste oil, spent solvents, spent etchant, discarded containers, lead, copper & zinc waste) are functioning in the State. 6 E-waste recyclers are functioning in the State. Details of units authorized to reprocess hazardous wastes is given in **ANNEXURE XVII**.

### Incinerable Waste

As of now, there is no common incineration facility in the State, since the quantity of waste generated is not sufficient to support such facility. Therefore, the Board has encouraged co-processing of incinerable hazardous waste in cement kilns, as per the advice of Central Pollution Control Board. Besides, three common small scale incinerators are working around Bangalore for incineration of the waste. Also, the major drugs and pharmaceutical units have set-up their own captive incinerators.

#### 6.4.2 Common Hazardous Waste Treatment, Storage & Disposal facility (TSDF).

A common Hazardous Waste Treatment, Storage and Disposal facility (TSDF) has been set-up at Dobaspet about 45 Kms from Bangalore on BOOT basis by M/s.Ramky Enviro Engineers Ltd. The TSDF is meant for landfillable hazardous waste only. The facility started receiving waste from industries from July 2008 onwards. One cell of this facility has been completed and disposal of the treated hazardous waste into this cell has been commenced from January, 2009.



Fig.1 Land fill facility at Dabbaspet

### **Koratagere Dump Site Remediation**

One illegal waste dump site was identified at Koratagere Taluk of Tumkur district during 2007. The waste comprised of chemical sludge from pharmaceutical units located outside the State. The Board has taken action to file complaint with police against the persons involved in dumping of such waste. Since the actual source of the waste could not be traced in spite of correspondence with neighboring SPCBs, the Board, in the interest of protecting environment, decided to remove the waste from the site and transport it to TSDF at Board's cost. Accordingly, about 200 MT of the waste has been removed from the site and disposed into TSDF established at Dabbaspet for landfilling.



Fig. 2. Removing of waste from Koratagere dump site

### **6.5 Implementation of Batteries (Management & Handling) Rules, 2001:**

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





These rules are applicable to every Manufacturer, Importer, Reconditioners, Assembler, Dealer, Recycler, Auctioneer, Consumer and Bulk consumers involved in manufacture, Sale, Import and use of batteries and components thereof.

The Board has identified 1,160 Battery handling units in the State and notices have been issued to all of them informing to file the returns regularly. The status of units identified is given below:

Sl. No	Particulars	Units
1	Units identified under Battery Rules	1727
2	Bulk Consumers complying the Rules	95
3	Battery manufacturing units complying the Rules	17
4	Dealers complying the Rules	35
5	Battery importers complying the Rules	12
6	Battery re-conditioners complying the Rules	7
7	Lead recyclers complying the Rules	13

An awareness programme sponsored by CPCB was conducted on Battery Rules involving all stakeholders on 25-03-2009 at Bangalore.

## 6.6 Status of Brick Kilns:

a) Number of Brick Kilns identified in the State;

- i. Hoffman's Kilns - 54
- ii. Bull's Trench Kilns - 46
- iii. High Draught Kilns - 1

b) Brick Kilns complying the Rules:

- ☒ Hoffman's Kiln - 54
- ☒ High Draught Kiln - 1

## Action taken on the defaulters –

The Board has filed criminal cases under Environment (Protection) Act against all the non-complying units.



## 6.7 Status of Implementation of Fly Ash Notification:

There are **6** Thermal Power Plants in Karnataka which are engaged in the generation of power using coal and **one** unit using corex gas and coal that are covered under the Notification.

### 6.7.1 : Status of power plants with respect to utilization of fly ash generated:

Sl. No	Name & Address of the unit	Power Generating Capacity [MW]	Quantity of fly ash generated MT/Year	Percent utilized	Remarks
1	Vasavadatta Cements, Sedam, Gulbarga Dist.	73.2 (Captive)	340	100	In addition to fly ash generated in captive power plant, the industry also lifts fly ash from Raichur Thermal Power Station.
2	Rajashree Cements, Malkhed Gulbarga Dist.	58.2 (Captive)	1000	100	In addition to fly ash generated in their plant, the industry lifts it from Raichur Thermal Power Station.
3	ACC Ltd., (Previously 'Tata Power Corp. Ltd.,) Wadi, Gulbarga Dist.	75 (Captive)	510	100	The entire fly ash generated is utilized for manufacture of cement within their industry Also, uses fly ash from RTPS
4	Grasim Industries Ltd., Kumarapatnam, Haveri.	10 (Captive)	66	100	Fly ash is used mainly for manufacturing bricks in clamp type kilns and remaining for soil conditioning by local farmers
5	Jindal Thermal Power Company Ltd., Toranagallu, Bellary	2x130	324	100	Fly ash disposed to local brick manufacturer and cement units.
6	Raichur Thermal Power Station, Raichur.	7 x 210 (Distribution)	5352	84	The fly ash is supplied to cement manufacture, fly ash blocks and soil conditioning.



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

The Ministry of Environment and Forest, Government of India, notified the Bio-Medical Waste (Management & Handling) Rules, 1998, under the Environmental (Protection) Act, 1986. The said Rules came into effect from 20-07-1998 and subsequently were amended three times on 06-03-2000, 02-06-2000 and 17-09-03. The Government of Karnataka, Department of Forest, Ecology & Environment, constituted the prescribed Authority, Appellate Authority and Advisory Committee for implementation of the said Rules. As per the second amendment, the prescribed authority for enforcement of the provisions of the said Rules was entrusted to the State Pollution Control Board.

The Rules are applicable to all persons who generate, collect, receive, store, transport, treat, dispose and/or handle bio-medical waste in any form. The occupier of the institution for whom the Rules are applicable has to obtain authorization from Board.

### 6.8.1 Authorization Status:

As on 31-03-09, the Board has identified **11,114** Health Care Establishments (HCEs) including veterinary institutions. Out of which non-bedded health care institutions treating less than one thousand patients per month are exempted from obtaining authorization.

### 6.8.2 Compliance to authorization conditions:

Bed strength of HCEs	No. of HCEs		No. of HCEs having captive treatment facility as per BMW Rules		No. of HCEs attached to Common Bio Medical Waste Treatment Facility (CBMWTF)	
	Govt.	Pvt	Govt.	Pvt	Govt.	Pvt
More than 500	7	22	-	6	7	16
Between 200 to 500	9	28	-	-	9	28
Less than 200	7061	3987	6877	1487	184	2500
<b>T otal</b>	<b>7077</b>	<b>4037</b>	<b>6877</b>	<b>1493</b>	<b>200</b>	<b>2544</b>



**6.9 Regional Office wise status of authorization of Health Care Establishments (HCEs) as on 31-03-2009.**

Regional Office	District	No. of HCEs Identified			HCEs with valid Authorisation		
		G	P	V	G	P	V
Bangalore City 1	BU	32	543	13	30	285	6
Bangalore City 2	BU	40	343	9	32	285	6
Bangalore City 3	BU	50	275	4	47	275	4
Bangalore East 1	BR	20	52	38	19	43	37
Bangalore East 2	BU	7	8	2	7	8	2
Bangalore Peenya	BU	-	-	-	-	-	-
Bangalore South 1	BR	7	94	2	7	75	2
Bangalore South 2	BR	2	16	10	3	8	3
Bangalore West	BR	101	50	127	101	50	127
Bangalore North 1	BR	35	41	196	255	162	196
Bangalore North 2	BR	29	20	50	29	15	50
Tumkur	Tumkur	387	304	196	255	162	196
Raichur	Raichur	61	84	56	60	84	56
Koppal	Koppal	51	26	71	51	26	71
Gulbarga	Gulbarga	159	175	256	146	123	256
Davanagere	Davanagere	132	225	190	132	225	190
Bijapur	Bijapur	71	190	122	71	190	112
Shimoga	Shimoga	376	198	144	336	196	132
Chitradurga	Chitradurga	101	40	127	101	40	127
Karwar	Uttara Kannada	102	75	121	102	66	121
Dharwad	Dharwad	50	205	105	50	204	105
	Gadag	42	35	79	42	35	79
	Haveri	60	25	111	60	13	111
Belgaum	Belgaum	163	340	240	81	297	180
Bagalkot	Bagalkot	66	210	120	66	210	120
Bellary	Bellary	106	110	100	100	100	90
Bidar	Bidar	60	81	96	60	75	96
Mangalore	Dakshina Kannada	87	203	100	87	166	102
Udupi	Udupi	73	60	82	73	60	82
Kolar	Kolar	132	95	186	132	95	186
Hassan	Hassan	119	62	199	106	33	188
Chikmagalur	Chikkamagalur	80	49	138	49	27	136
Mysore	Coorg	44	10	54	44	10	54
	Mysore	191	120	147	191	120	147
Chamarajanagar	Chamarajanagar	62	13	76	62	13	76
Mandya	Mandya	130	44	21	130	44	211
<b>Total</b>		<b>3432</b>	<b>4037</b>	<b>3645</b>	<b>3232</b>	<b>3841</b>	<b>3362</b>

\*BU - Bangalore Urban and \*\*BR - Bangalore Rural  
G - Government, P - Pvt, V - Veterinary unit



### 6.9.1 Steps taken by the Board to implement the Rules effectively

1. The Board has developed the database of the health care establishments in the State and the same is being up-dated regularly. Efforts are on to bring all the HCEs under the purview of the Rules. Towards this aim, the Board has been issuing show-cause notices and notice of proposed directions to the non-complying health care establishments and also calling them for personal hearings. Material evidences are collected for initiating legal action against defaulting health care establishments.
2. Creating awareness among the stake holders and imparting training is the integral part of enforcement activities. The Board has been taking this aspect very seriously and has conducted training programmes at district levels viz., Raichur, Bijapur, Mysore & Mandya. Also meetings have been held with Government and private hospitals in Kolar. Wide publicity has been given through news paper also.

### 6.9.2 Common Bio-medical Waste Treatment & Disposal Facility:

Board is encouraging establishment of Common Bio-Medical Waste Treatment and disposal facilities. In this regard, the Deputy Commissioners in the State have been repeatedly requested to identify and provide land for setting up Common Bio-Medical Waste Management facility. The matter is also followed up with the Revenue Department.

However, the status of the common bio-medical waste treatment facilities as on 31-03-2009 is as follows;

Sl. No.	Name & Address of CBWTF	Total No. of beds covered	Operating Status
1	M/s. Semb Ramky Environmental Management Pvt. Ltd., Plot No. 39, KIADB Industrial Area, Dobaspet, Somapura Hobli, Nelamangala Taluk, Bangalore Rural	9682	Operating
2	M/s. Maridi Eco Industries Pvt. Ltd., Sy.No.1/37, 1/38, 35th Miles Stone, Gabbadi Kaval, Kanakapura Road, Ramanagar District	28113	Operating
3	M/s. Shree Consultants, No.724, 1st floor, SVM complex, Ramanuja Road, Mysore-4.	4343	Operating
4	M/s. Hubli Dharwad Bio Medical Waste Treatment Facility, No.126/L, Tarikal Industiral Area, Hubli	5898	Operating



Sl. No.	Name & Address of CBWTF	Total No. of beds covered	Operating Status
5	Association of Hospital and Nursing Homes, Sy.No.12, KHAS Bag, Belgaum	2200	Operating
6	Sushanth Environment Technologies Private Ltd., 56/1A, Voddinahalli Village, Bada Road, Davanagere	2067	Operating
7	Shushrutha Bio Medical Waste Management Society, Plot No. 31/c, Machenahalli Industrial Area, Shimoga	2264	Operating
8	Centre for Environment Education, Sy.No.1139, Sharasirasagiri Village, Afzalpur Road, Gulbarga,	2689	Operating
9	Ramky Energy and Environmental Pvt. Ltd., No.-47-B, Karnad Industrial Area, Mulky, Mangalore.	6951	Operating
10	Karnataka Private Medical Establishment Association, Sy.No.139, Mahlbagayat, Bijapur	1553	Operating
11	Vijayanagar Associates, Sy.No. 73/3, Ekklaspur Village, Raichur	956	Operating
12	Suryakanth Environmental Technologies, Sy.No.103, Near Belavanur Village, Lokikere Road, Davanagere	904	Operating
13	Environment Education and Pollution Control Centre, 446/2A, Kamathana Village, Bidar Taluk and District	-	Yet to Commission

Efforts are being made to persue other potential districts like Kolar, Hassan etc to get land allotted from Deputy Commissioners for establishing Common Bio-medical Waste Management Facility.

#### 6.10 Plastics Manufacture, Sale and Usage Rules.

Ministry of Environment and Forest (MoEF) has notified the amended Rules in 2003 under Environmental (Protection) Act, 1986 with effect from 17-06-2003.



The prescribed authority for enforcement related to manufacture and recycling is the Karnataka State Pollution Control Board in the State. Prescribed authority for enforcement related to the use, collection, segregation, transportation and disposal is the Deputy Commissioner 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.

#### 6.10.1 Action taken by the Board under Plastic Rules.

Number of units covered	290
Number of units having valid registration	245

Karnataka State Pollution Control Board has issued a public notice in leading English and Kannada newspapers by highlighting the provisions of Rules in order to create awareness. Further, the occupiers of units engaged in manufacture of carry bags or containers of virgin or recycled plastic or both were called to make application in Form-I to Board for registration of units.

Now, the manufacturers/ traders of plastic carry bags are filing applications for registration of units as per Rules.

Board had issued following directions under Section 5 of the Environment (Protection) Act, 1986 and same is implemented/ enforced this year also;

- o For restricting the use of plastic articles of less than 20 microns thickness like plastic carry bags, sheets, plates, cups in choultries / kalyan mantaps;
- o For banning of printing election and other posters on plastic sheets of less than 20 microns thickness; and
- o For restricting the use of Plastic bags in two important parks namely Lalbagh and Cubbon park in Bangalore.

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

Awareness programmes to Plastic bag manufactures has been carried out at district level highlighting the salient features of Plastic Rules & the necessity for recycling the plastic waste. The awareness activities carried out during the year under report is listed in **Annexure – XVIII**.

The Board has forwarded proposals to frame Rules for usage of Biodegradable plastics to the State Government for Notification.



Awareness programmes to elected representatives & officers of local bodies were conducted regarding the salient features of Plastic Rules & the necessity for recycling the plastic waste.

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

The Ministry of Environment and Forest, Govt. of India, has framed the Municipal Solid Waste (Management & Handling) Rules, 2000 vide Notification dtd:25-09-2000 in exercise of the powers conferred under section 3, 6 & 25 of the Environment (Protection) Act, 1986 with a view to regulate the management and handling of Municipal Solid Waste.

The Rules apply to every Municipal Authority responsible for collection, storage, transportation, processing and disposal of MSW. As per Rule 5, the Secretary-incharge of the Department of Urban Development of the State and the Deputy Commissioners of the concerned District shall have the overall responsibility for the enforcement of the provisions of these Rules in respect of the metropolitan cities and the concerned districts respectively.

The municipal authority shall furnish annual report in Form-II to the Secretary-incharge of the Department of Urban Development of the concerned State or the Deputy Commissioner concerned in case of all other towns and cities, with a copy to the State Pollution Control Board on or before the 30<sup>th</sup> day of June every year as per the said Rules. The State Boards shall prepare and submit to the CPCB, an annual report by the 15<sup>th</sup> of September every year. As per the directions of Hon'ble Supreme Court order dtd: 26-07-04, the Karnataka State Pollution Control Board (KSPCB) is regularly submitting quarterly progress report along with an affidavit to Hon'ble Supreme Court.

The Board has constituted the State level committee to verify site selection criteria and to issue Authorization to the local bodies under the Municipal Solid Waste (Management & Handling) Rules, 2000, which are coming under the City Corporation and Bangalore Metropolitan Region Development Authority (BMRDA) limits and constituted District level committees for City Municipal Councils, Town Municipal Councils and Town Panchayats in the State. Board has issued Authorization to all the 223 local bodies in the State by stipulating the conditions to comply with the MSW Rules.

Out of 223 Local Bodies, **175** urban local bodies (ULB's) in the State possess the landfill site and in nearly 89 ULB's the landfill site development work are under progress and 48 ULBs are in the process of acquiring land. Door to door collection of solid waste has commenced in **60** ULB's in the State.

Seven (7) local bodies namely BBMP (jointly with CMC-Yelahanka & CMC-Byatarayanapura),





CC-Mangalore (Jointly with TP- Ullal), CMC- Karwar, TMC-Puttur and TP-Akola have established full fledged, scientifically designed landfill site under KUDCEM project and they are in operation.



Fig 3



Fig 4



Fig 5

Fig 3, 4 & 5 : Solid Waste Management at Karwar

Bruhat Bangalore Mahanagara Palike (BBMP) in collaboration with M/s. Ramky Infrastructure Ltd., (RIL) has established an integrated landfill site at Mavallipura & generation of power using the solid waste as fuel is yet to start. The composting & landfill site is commissioned & the same is under operation. At present, 300 tons/day of solid waste is being processed. M/s Ramky Infrastructure Ltd., have informed that they are unable to go in for full capacity (1000 Tons/day) & power generation unit because entire land of 100 Acres is not handed over by BBMP. Board has issued authorization to BBMP valid upto 31-12-2008 for composting and land filling facility in collaboration with M/s RIL.



BBMP has also entered into an agreement with M/s Srinivasa Gayatri Resource Recovery Ltd (SGRL), for integrated Waste-to-Energy Project consisting of a process plant to derive enriched fuel from MSW known as 'Refuse Derived Fuel', a power plant of 8 MW capacity and landfill for process rejects utilizing 1000 TPD of Municipal Solid Waste at Sy. NO.155, Mandur Village, Bidarahalli Hobli, Bangalore-East Taluk based on technology developed by Ministry of Non-Conventional Energy Sources (MNCES). However, BBMP has allotted only 35 Acres of land (25 Acres for process plant & 10 acres for power plant). Board had issued authorization to BBMP valid upto 31-12-08 for waste-to-energy facility in collaboration with M/s SGRL. At present, M/s. SGRL has obtained consent for operation of MSW process plant of Cap.1000 TPD, landfill facility & compost facility. Power plant and brick manufacturing facility will be started in short time.

BBMP has started door to door collection system of MSW and erected display boards at several locations in the city informing the public regarding segregation of waste at the source (i.e., as bio-degradable, non-degradable etc.). The other local bodies are collecting the solid waste in bins located in specific areas and transporting the same to disposal sites by trucks. Board has issued direction to all 223 local bodies to follow the schedule-II of notification of the MSW (M&H) Rules for Collection, Segregation, Storage, Transportation and Disposal of MSW.

As per the directions of Government of Karnataka Order dtd:19-01-04, the Board has issued direction to all the local bodies to apply and obtain authorization from the Board for transportation of municipal solid waste and use only authorized vehicles to transport municipal solid waste.

Further, as per the directions issued by Hon'ble Supreme Court of India in W.P (C) No. 657 of 1995 vide order, dtd: 14<sup>th</sup> October 2003 forwarded by MoEF (HSM Division), Supreme Court Monitoring Committee, GOI dtd: 25<sup>th</sup> July 2005, all the local bodies involved in handling of MSW shall display online data with regard to the MSW generation, transportation, storage and leachate generation in the board measuring minimum size of **6ft x 4ft** (both in Kannada and English). Regarding this, the Board has issued directions to all the local bodies to install display board indicating provisions under MSW Rules and also informed the DMA to follow up the same.

#### **6.11.1 Action taken up by DMA for speedy implementation of solid waste management, with due respect to Supreme Court guidelines.**

- ✍ Door to door collection, secondary storage and transportation & scientific disposal of waste have started in 57 Nirmala Nagara Towns.
- ✍ Information Education & Communication (IEC) was initiated in 43 ULBs.



- ✍ Extended financial and technical aids to ULBs are needed for solid waste management implementation.
- ✍ Issuing Govt. Orders to enable to the ULB's to impose and collect solid waste management cess from various waste producers, so as to provide financial resources needed for the sustainability of the project.
- ✍ Encouraging Self Help Groups (SHG's), Residence Welfare Associations (RWA's) and private party participation in the SWM implementation process.
- ✍ Continuous training programmes for SWM staff.
- ✍ Conducting half yearly review meetings of all the ULB's in the State on progress made in implementation of SWM programme.
- ✍ Continuous monitoring and assistance from Directorate of Municipal Administration office regarding SWM implementation.
- ✍ Grants are provided to ULBs for purchase of land, Development of landfill sites (approach road, compound, bore-well, watchman shed, Procurement of tools etc during 11<sup>th</sup> to 16<sup>th</sup> Finance Commission).

Karnataka State Pollution Control Board is constantly pursuing with DMA/other departments concerned in the State for implementation of Municipal Solid Waste (Management & Handling) Rules, 2000.

## 6.12 National River Conservation Plan

The National River Conservation Directorate under National River Conservation Plan (NRCP) has short-listed 8 towns of Karnataka with an objective to initiate action plans to prevent pollution of major rivers. Under this scheme the works are executed under core and non-core sectors. Core works are executed by KUWS & DB. The Core Scheme includes providing UGD, interception, diversion and STP's. The Karnataka State Pollution Control Board is the nodal agency for implementation of non-core schemes taken under NRCP. The 8 towns located on the banks of two basins are ;



### 6.12.1 Summary of National River Conservation Plan (NRCP):

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

Non-core schemes which are executed comprises of

- ✍ Low cost sanitation (Community toilets & individual toilets)
- ✍ Installation of wood based crematoria
- ✍ Construction of bathing ghats
- ✍ River front development
- ✍ Dobhighats

The sanctioned DPR estimate under non-core scheme is **Rs.356.414 Lakhs**.

During 2003, under non-core scheme, bathing ghats one each at Srirangapatna, Davangere, Nanjangud, Shimoga, Kollegal and two at Harihar is approved by the Govt. of India at an estimated cost of Rs.43.494 Lakhs.

The Govt. of India has released Rs.421.689 Lakhs towards the NRCP works through State Govt. to Karnataka State Pollution Control Board for onward distribution to implementing agencies. This amount includes Rs.44.14 Lakhs received for payment to KUWS & DB for preparation of DPR for Interception & Diversion of sewage for core works. The amount received is allocated as given in table below:

### 6.12.2 Summary of allocation of funds under NRCP:

Amount received by KUWS & DB for preparation of DPR for I & D works under Core scheme	Rs. 44.14 Lakhs
Amount released to DC's for execution of Non-Core schemes	Rs. 376.641 Lakhs
Amount released for preparation of DPR for bathing ghat	Rs. 0.90 Lakhs
Amount remaining unutilized	Rs. 0.008 Lakhs
<b>Total amount</b>	<b>Rs. 421.689 Lakhs</b>

The physical and financial progress status is shown in the adjoining table.



### STATUS OF IMPLEMENTATION OF NON-CORE SCHEMES UNDER NRCP

Name of the work	Town wise – Status of works							
	Harihar	Bhadravathi	Davangere	Shimoga	K.R.Nagar	Nanjangud	Srirangapatna	Kollegal
Low cost sanitation (community toilets and individual toilets)	All works completed. Constructed 10 community toilets.	All works completed. Constructed 800 individual toilets and 12 community toilets.	Out of 18 units, 17 units have been completed, No fund to take up the balance work.	All works completed. Constructed 275 individual toilets and 10 community toilets.	All works completed. One community toilet is constructed.	Out of 10 Nos. community toilets, construction of one community toilet is pending. (it is under litigation)	All works completed. Seven community toilets are constructed.	Out of 5 community toilets, 4 are completed. No fund to take up the balance work.
Crematoria	Completed	Completed	-	Completed	Completed	-	Completed	-
Dobhi Ghat/ River Front Development.	-	-	Completed	-	Completed	-	-	-
<b>Bathing Ghat.*</b>	2 units. Plastering and plumbing work completed. Work stopped for want of funds.	-	Construction of one bathing ghat to be taken up <b>(recommended to drop the unit)</b>	Completed (Rs.6.46 lakhs)	-	Construction of one bathing ghat to be taken up. <b>(recommended to drop the unit)</b>	Completed	Location shifted to town, as per the resolution in the review meeting at DEE. Work under construction DC is requesting for funds (Rs.3.4 lakhs) to complete the work



Amount released from KSPCB to Local Bodies (Rs. In Lakhs)	37.312 (Board has released Rs.6.67 lakhs for bathing ghat)	120.562	63.41	50.622	7.308	41.57	16.59	16.59
Expenditure made by Local Bodies (Rs. In Lakhs)	37.581	120.21	63.51	55.17	7.302	40.79	29.08	16.59
Year of completion.	1996-97	1999	2006	2002	2005	-	2002	-

**Note:** \* These works are approved during 2003-04. The funds are released by Department of Environment and Ecology directly to the CMC/TMC.



### 6.13 Water Cess:

The Water cess is payable by industries and local authorities for the water consumed by them at the rates specified in the Water (Prevention & Control of Pollution) Cess Act and Rules. The water cess is one of the revenue to the Board. The cess assessed and collected for the financial year 2008-2009 is Rs.2,35,44,161/- and Rs.3,22,85,996/- respectively.

A detailed status on cess assessment is given below:

	Monthly	Quarterly	Half Yearly	Yearly	Total
No. of industries covered under Cess Act	259	177	415	1,286	2,137
No. of industries filing cess returns	230	172	254	1,044	1,700
No. of industries for which assessment orders issued	313	210	234	809	1,566
No. of local bodies filing cess returns	61	10	12	2	85
No. of cess returns received	2,384	938	1,367	5,333	10,022
No. of cess returns disposed	1,946	674	1,058	1,618	5,296
No. of cess returns pending	429	94	319	658	1,500
No. of industries not submitted the returns	39	2	10	164	215
No. of suo-moto notices issued	382	66	42	256	746
No. of suo-moto assessment orders issued	357	62	16	239	674

### 6.14 E-Governance related activities of the Board:

The Karnataka State Pollution Control Board is constantly endeavouring to computerize all its activities. In this direction the assistance rendered by the World Bank during 2001-2002 has contributed significantly for steady progress on computerization activities of the Board. An amount of Rs.4.02 crore was allocated under the Industrial Pollution Prevention Project for establishment of dedicated Information Technology and Geographical Information System. Sound base has been established in all the offices of the Board by providing necessary infrastructure and training to all the employees. The entire Head Office of the Board, Central Laboratory and the Regional Offices has been provided with the computers and servers. Networking of the computers in the Head office and Central Laboratory are completed and are functioning. Senior Officers of the Board have been provided with lap-tops. The Board has its own webmail server connected to NIC and is operational; all the officers of the Board and all the Regional Offices have been given individual



Email IDs. The Karnataka State Pollution Control Board has launched its own website <http://kspcb.kar.nic.in>. This website is periodically updated with all the activities of the Board. Citizen charter is also available in the website. The consent applications forms are available at the website for download.

A software module by name “Consent Module” has been developed in-house to suite the requirement of Consent mechanism of the Board. The software has been installed at the Help desk of KSPCB from 01-04-2007. Using this module, details of CFE/ CFO/ authorization applications received at the helpdesk can be captured and an acknowledgement can be generated by indicating the period within which the consents / authorizations need to be issued from the Regional offices/ Head Office. The same module has been web enabled from 01-01-2008 for the use of 22 Regional offices located outside Bangalore. Various reports based on the list of Consents issued / refused / pending etc. can be generated using the module. This module helps to monitor the status of Consent/ authorization applications received by the Board.

#### **6.15 IVRS for complaint registration:**

‘Interactive Voice Response System’ (IVRS) has started functioning from the World Environmental Day 2004; i.e, from 5th June 2004. IVRS is introduced with a view to give quick response to public regarding complaints related to pollution. The complaints are received from all over Karnataka through IVRS over the telephone number **080-25589111**. The status of a lodged complaint will be made known to the complainant with the help of Docket number allotted during the registration of complaint. During the period under report **24** complaints has been received through IVRS, which were attended.

### **Software Development:**

#### **1. Battery Information Management Software:**

The objective of Battery Information Management Software is, inventorization of organizations covered under Batteries (Management & Handling) Rules, 2001. The software is developed using Visual Basic 6.0 as front end and Microsoft Access as back end. The details of organizations such as Name & address, activity (whether Bulk Consumers, Reconditioner, Manufacturer, Recycler, Dealer, Auctioneer, Assembler, Importer etc.), Regional office jurisdiction, year for which the returns are filed etc., are entered into the database and based on the above inputs periodical reports are generated. The module is being used in Hazardous Waste Management Cell.





## 2. Legal Section Software (Legal Diary):

The objective of this Software is to manage information related to court cases filed by the Board and to know the status of the cases. This software is developed using Microsoft .NET 2008 technology. The details such as Type of Court Case, Writ petition number, Respondent's details, Subject details, Act under which the case is filed, decision details, date of disposal, gist of the case, type & place of the court, purview of the Regional office, advocate's name etc., are being captured in the database and various reports based on the above inputs are generated. This software is being used in Legal section.

### 6.16 Spatial Environmental Planning:

Karnataka State Pollution Control Board under the spatial environmental planning has prepared a State Environmental Atlas. This Atlas has 31 maps covering various areas/topics, details of which are as follows;

Sl. No.	Map	Sl. No.	Map
Map 1	Administrative Divisions.	Map 16	Surface Water Flow.
Map 2	Settlement Location.	Map 17	Ground Water Use.
Map 3	Transportation Network.	Map 18	Biological Diversity.
Map 4	Climate.	Map 19	Sensitive/ Incompatible Land use Areas.
Map 5a	Natural Hazards (Earthquake and Flood).	Map 20	Existing Industries/ Industrial Estates.
Map 5b	Natural Hazards (Cyclone).	Map 21	Location of Mines.
Map 5c	Natural Hazards (Draught).	Map 22	Municipal Solid Waste Generation.
Map 6	Land Use.	Map 23	Bio-medical Waste Generation.
Map 7	Slope.	Map 24	Hazardous Waste Generation.
Map 8	Wastelands.	Map 25	Vehicular Pollution.
Map 9	Soil types.	Map 26	Domestic Sewage Load.
Map 10	Land Capability.	Map 27a	Distribution of Fertilizer.
Map 11	Drainage.	Map 27b	Distribution of Pesticide.
Map 12	Irrigation.	Map 28	Air Quality.
Map 13.a	Pre-monsoon Contours.	Map 29	Surface Water Quality.
Map 13.b	Post Monsoon Contours.	Map 30	Ground Water Quality.
Map 14	Hydro-geomorphology.	Map 31	Contaminated Sites.
Map 15	Surface Water Use.		



The draft Karnataka State Environmental Atlas has been completed and submitted to CPCB for comments and approval

### **6.17 Helpdesk at Bangalore**

To facilitate the stakeholders, approaching KSPCB for various consents and authorizations pertaining to the Regional Offices at Bangalore, a HELPDESK was commissioned on 5th June 2004. At Help Desk, applications for consents and authorizations are received, scrutinized and acknowledge the receipt of such applications along with the details of DD enclosed and indicate the date on which the applicant can collect the consent across the same counter or as per the choice of the applicant, the consent will be posted to the mailing address furnished by the applicant. The HELPDESK will receive the applications by post too. Acknowledgement in case of applications received by post will be sent by post. In case of incomplete applications, the applicant will be suitably advised regarding attending the requirements.

The HELPDESK functions on all working days from 10.00 am to 5.00 pm with a lunch break from 1.30 pm to 2.00 pm. The Helpdesk is facilitating immediate scrutiny of the applications so that shortcomings if any as per the checklist are intimated immediately thereby reducing the time taken for scrutiny. Consequently applications are processed well within the time limit and the date on which the consent order/authorisation can be collected is indicated at the time of filing the application.

Helpdesk of the Board at present is receiving and issues various consents and authorizations by the eleven Bangalore based Regional Offices of the Board (Bangalore City-1, Bangalore City-2, Bangalore City-3, Bangalore North-1, Bangalore South-1, Bangalore South-2, Bangalore East-1, Bangalore East-2, Bangalore West, Bangalore North- 2 & Peenya). Helpdesk acts as a single point contact for industries & organizations seeking consent of the Board.

The helpdesk has been certified with ISO 9001:2000 Quality Management System Certification on 04-06-2007 by Bureau of Indian Standards, GOI.

During the year 2008-09, 6368 consent/authorisation applications were scrutinised at the Helpdesk. The total consent fee collected at the help desk during the financial year is Rs.19,35,71,857/-.

### **6.18 Training Programme/ Seminars attended by Board officers during 2008-09**

This year, there were no abroad training and overseas visits by Board staff. During the reporting period some of the officers of the Board have undergone training in Environmental Audit, water quality management, global warming, clean development mechanism and carbon trading, HRD,



EIA, MSW, Hazardous Waste, Battery Waste and e-waste management, Lake Conservation etc. Also many of them have attended Seminars and Workshops on Environmental related issues. Totally 34 different programmes have been attended by officers.

List of training programme and workshops attended by the Board Officers is enclosed as **ANNEXURE -XIX**.

### **6.19 Awareness programs and other functions organized by the Board:**

To meet the expectations under the environmental legislations it is important to create awareness among the community, stake holders, public and others in the various spears of the activities. In this direction the KSPCB demonstrates its commitment to the protection of the environment through a wide range of awareness activities to educate, inform and co-opt with stakeholders and public. This approach obviously will help the Board in effectively implementing the environmental legislations.

A generous budget is set aside to promote activities that include collaboration with NGOs, schools and citizens. seminars, workshops, campaigns, jathas, street plays, tree-planting, debate and essay competitions on themes ranging from global warming to vehicular pollution in urban spaces are a few of the activities.

Mobile exhibition vans viz. Krishna (for school children) Cauvery (on urban environment) and Tungabhadra (for industries) will make visits to various places on request. They are a rich source of information on why and how the environmental protection, with state of the art exhibition aids and interactive learning tools.

The Board encourages the public to use the information cell, and bring to our notice incidence of air, water or noise pollution through phone-calls, e-mails and handwritten petitions. This is an important forum for the Board in understanding the needs of the urban environment and trying to minimise pollution.

The Citizens' Charter is an articulation of the Board's intentions on meeting its objectives.

The major environmental awareness activities of the Board during 2008-09 are;

#### **✍ World Environment Day 2008 - .**

In connection with World Environment Day the Board has sponsored rain water harvesting facility to government school/public building and also conducted a training programme for teachers and students at Raichur through Science Education Trust, Raichur. Painting competition for the children was held at Cubbon Park, Bangalore and in all the Districts.



The NGOs CARTMAN, Concern India Foundation, Bharatiya Samaja Sewa Trust, Women and Child Association, Mysore; Resource Centre for Communications have conducted Environmental Awareness Programmes, Anti Litter Awareness Programmes and other related activities were sponsored by the KSPCB. Prasara Bharati and Radio City broadcasted the environmental related issues on the eve of World Environment Day with the sponsorship of KSPCB. All the Regional Offices have observed World Environment Day in their jurisdiction.

#### **World Earth Day 2008**

A sponsored Broadcasting for “Day Branding” was held on the eve of world earth day by Adlabs Films Ltd.

#### **Ganesha Festival 2008**

KSPCB has sponsored Awareness Programmes through Prasara Bharati, Radio Mirchi, Bangalore Doordarsan on the eve of Ganesha Festival to educate the public to use idols which are not painted, to immerse the idols in the designated areas in lakes where facility for immersion are made. The Board made arrangement for immersion of idols in mobile immersion tanks mounted on trucks.

#### **Deepawali Festival 2008**


KSPCB has conducted awareness programmes for the school children on the effect of crackers. Wide publicity was given in news papers carrying messages to the public on the ill effect of bursting of crackers and also the legal provisions. Sponsored programmes were telecasted in Doordarsan, Private TV channels. Sponsored programme was broadcasted in Prasara Bharati & FM channels.

#### **Environmental Awareness Programmes in Schools**

KSPCB has sponsored environmental awareness programmes for school students through NGO's viz. CARTMAN, Nagarika Seva Trust, Kodachadri Integrated Development, Karnataka Rajya Vignana Parishat and Shivapriya School of Dance.

#### **Rain Water Harvesting**

KSPCB has sponsored programmes for popularising rain water harvesting. Totally eight programmes in the State were conducted.






 **Broadcasting of “Bhuvi onde Bhavishya onde” programme in Prasar Bharathi:** During the reporting year the Board has sponsored radio programme on the title “**Bhuvi onde Bhavishya onde**” covering various environmental issues. Many subject experts and leading



personalities participated in the programme. There was overwhelming response to the programme.

### Seminars and Workshops

The Board has sponsored eighteen programmes conducted by Universities, colleges and other institutions. The main programmes were

-  Emerging trends in Environmental bio-technology,
-  Wealth from waste,
-  Sustainable Waste Management – problems and solutions.
-  National workshop on awareness and consultation on guidelines of Environmentally Sound Management of e-waste.
-  State Level seminar on environmental educational studies.

### Advertisements

The Board has released environmental related advertisements in various news papers, periodicals, journals etc.

Details of Awareness programs and seminars/ workshops sponsored/ organized by the Board during the period 2008-09 and the amounts spent are as under and details are in **ANNEXURE XVIII-A to C.**

SI No	Particulars	No of Programmes	Amount Spent in Rs.
1.	Awareness Programmes	46	34,96,924/-
2.	Seminar & Workshops	18	11,04,762/-
3.	Advertisement	81	9,71,000/-

### 6.20 Submission of Environmental Statement:

Under Rule 14 of Environment (Protection) Rules, conducting environmental audit for the financial year ending 31<sup>st</sup> March every year and submission of environmental statement is compulsory for every industry covered under either the Water (Prevention & Control of Pollution) Act, 1974, the Air (Prevention and Control of Pollution) Act, 1981, or the Hazardous Waste (Management & Handling) Rules, 1989, from 1993. The environment statement has to be submitted to the State Pollution Control Board within 30<sup>th</sup> 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 **2,921** industries have submitted environmental statement.

As environmental audit is a management tool for economic and environmental benefits for the industries, it depicts their performance during the period of audit. This report is examined during the time of verifying the compliance to the consent conditions and at the time of renewal of the consents. It is felt that the statutory forms in which the audit is being reported needs modification to meet the current requirements.

## CHAPTER 7

### 7. PROSECUTIONS LAUNCHED AND CONVICTIONS SECURED

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

#### 7.1 Important Judgements:

##### Lok Adalath:

A Public Interest Litigation was filed in the Hon'ble High Court of Karnataka in W.P.No.13473/98 on the pollution caused to Belandur Tank in Bangalore due to discharge of sewage. The Hon'ble High Court referred this matter to Lok Adalath on 21-01-2003 through High Court Legal Services authority. Lok Adalath is examining various interventions that are responsible for the Belandur Tank pollution. During the period under report the Adalath directed the State Board to submit status report on implementation of treatment facility for hospitals, having bed strength more than 100 to treat the bio-medical liquid waste. The action plan was submitted by KSPCB. The adalath in its order dated: 4-12-2008 directed the Pollution Control Board to issue 8 days notice to the government hospitals who have not responded to provide the treatment facility and thereafter to closedown. The adalath in order dated 20-1-2009 directed the KSPCB to give sufficient time to the hospitals to complete the ETPs and also directed to issue notices to all nursing homes, poly clinics and diagnostic laboratories to call-up on them not to discharge bio-medical waste without treatment. The Board after giving sufficient time and following procedures has issued closure orders under the Water Act on 11-2-2009 to Ambedkar Medical College and Hospital, Chinmaya Mission Hospital, HAL Hospital, St.Marthas Hospital, ESI Hospital- Indira Nagar, Kempegowda Institute of Medical Sciences. These hospitals responding to the closure directions have come-up with proposals to provide the liquid waste treatment facility and sought time to complete the ETPs. On receipt of affidavit from these hospitals, closure orders were kept in abeyance on 12-03-2009.

**W.P.No.30610/08 judgement dated: 30-10-2008**

This is a W.P filed by Commissioner of Nipani Municipality, Belgaum District praying for Writ of certiorari to quash the complaint and all the proceedings in CC No.728/2008 pending on the file of JMFC contending that the petitioner is a public servant as per section 197 Cr.P.C which calls for sanction from the Government to prosecute the government servant. In the judgement the Hon'ble High Court held that quote:

“8. Once the burden itself is shifted on the head of the department the procedure contemplated under Section 197 requiring a previous sanction from the Government for taking cognisance of such offence becomes redundant, that weighed with the Parliament for dispensing with such a previous consent under Section 49(1) of the Water Act (emphasis supplied). However, the proviso under Section 48 again provides a defence to the officer to prove (1) that the offence was committed without his knowledge, (2) he had exercised due diligence to prevent the commission of the offence giving a very limited scope for mens rea creating a burden on such head of the department to prove that he had no knowledge, while under general law it is for the prosecution to prove that he had knowledge to commit offence i.e., he had mens rea. Except these two defence the head of the department had no other defence to contend either that the prosecution failed to prove that the officer concerned had any mens rea or the Board has failed to obtain the previous sanction before taking legal action against him or that the officer concerned had not taken due diligence to prevent the commission of offence. The proviso to Section 49(1) therefore shifts the entire burden on the officer concerned and discharges the Board from proving the said proviso. To this extent there is apparent conflict with reference to Sections 4.5 and 197 Cr.P.C. contrary to Sections 48 and 49 of the Water Act. Once there is a contravention, Section 60 comes into play whereby the provision of the Water Act has got overriding effect than the provisions of Cr.P.C:9: For these reasons in our considered opinion **no previous sanction is required** for initiating the legal action by the Board for the offence contravening Section 48 of the Act. Hence finding no merits in the writ petition the same fails”.

**W.P.No.10645/2008, judgement dated: 12-03-2009.**

This petition is filed by Dr.Nidarsh D.Hegde against Mangalore City Corporation, KSPCB, Mangalore Urban Development Authority and Joseph Sequiera of M/s.Sequiera Engineering Works. According to the petitioner workshop is situated in the middle of residential area and causing pollution and nuisance to the neighbours. After hearing, the Hon'ble High Court held that the residence of the petitioner is situated in an industrial area. If an industry is established in an industrial area, only because petitioner is a resident of industrial area, no court can direct respondent to shift his industry to any other place. On the contrary, it is for the petitioner to make alternate arrangement to shift his residence from industrial area to any other place.



### Appellate Authority.

The Government of Karnataka has constituted the Karnataka State Appellate Authority under the Water and the Air (Prevention and Control of Pollution) Acts, 1974 & 1981, comprising of members.

1. Hon'ble Mr.Justice A.M.Farooq
2. Hon'ble Mr.B.N.Thyagaraja
3. Hon'ble Mr.Lawrence Surendra

Under Section 31 of Air Act and Section 28 of the Water Act any person aggrieved by the orders made by the State Board under these Acts may within thirty days from the date on which the order is communicated to him, prefer an appeal before the Appellate Authority.

During the period of this report 27 appeals have been filed before the Appellate Authority of which 20 appeals are disposed in favour of the action taken by the Board and 7 appeals have been allowed.

### **8. Finance and Accounts of the State Board.**

The financial year 2008-09 started with an opening balance of **Rs.1,06,54,83,616/-**. A total of **Rs.2,03,44,000/-** was received from Government of India towards reimbursement on the collection of water cess during the year.

Finalized annual receipts and payments accounts of the Board for the period 2008-09 is appended to the report (**ANNEXURE -XXI**).

### **9. Visits to the State Board by dignitaries**

- ☞ Sri. Rajneesh Dube, Joint Secretary, Ministry of Environment and Forest, New Delhi visited the Board and had discussions with the Officers of the Board regarding activities of the Board & other related issues on 10-02-2009.
- ☞ Mrs.Christie Sunder Rajan, P.E., CHMM Environmental Inc. U.S.A gave a technical talk on 'Compliance issues in U.S.A & remediation measures for Hazardous Waste dump sites' on 25-11-2008.
- ☞ The Board observed the Kannada Rajyosatva 2008, on that occasion Sri.J.Krishna Palemar, the Hon'ble Minister for Environment, Ecology Port and Inland Water Transport graced the occasion and also inaugurated the Library and Helpdesk center at 'Parisara Bhavan'.





## 10. Other Matters Dealt by the State Board

### 10.1 Follow up of the Annual action Plan for the Year 2008-2009:

- ✍ The Board has sponsored number of awareness programmes conducted by various organizations/NGOs, radio programmes, etc. The details are furnished vide **Annexure-XVIII-A to C.**
- ✍ The Board has established six additional ambient air quality stations in Bangalore City under the GoK fund.
- ✍ The Board in its 170th meeting held on 10-06-2008 approved to establish four new continuous ambient air quality stations at Mysore, Mangalore, Hubli and Belgaum. Procurement work for the CAAQM Station is under progress.
- ✍ Board is pursuing industry associations in the State for establishing CETP, by informing them about the MoEF scheme for providing subsidy to the small scale industries. Board is encouraging establishment of Common Bio-Medical Waste Treatment and disposal facilities. In this regard, the Deputy Commissioners in the State have been repeatedly requested to identify and provide land for setting up Common Bio-Medical Waste Management facility. The matter is also followed up with the Revenue Department. Karnataka State Pollution Control Board is constantly pursuing with DMA/other departments concerned in the State for implementation of Municipal Solid Waste (Management & Handling) Rules, 2000.
- ✍ Work is initiated for construction of Green buildings at Chitradurga and Bellary. Work orders have been issued for the construction of buildings in Gulbarga, Bijapur, Bagalkote, Chikmagalur and Mandya Districts
- ✍ As part of restructuring exercise the Board has established 8 Zonal Offices, 4 at Bangalore and 4 in other parts of the State viz., Mangalore, Mysore, Bellary & Udupi, headed by Senior Environmental Officers (SEOs). SEOs will oversee the functioning of the Regional Offices coming under their jurisdiction. At Head office, the functions have been reallocated sector wise.
- ✍ As per the bilateral understanding between the State of Karnataka and the State of Bavaria, Germany, areas of technical cooperation have been identified and experts have visited the State and are having interaction. The interaction is on going.
- ✍ Software by name "Consent Module" has been developed in-house to suit the requirement of Consent mechanism of the Board. The software has been installed at the Help desk of



KSPCB from 01-04-2007. Using this module, details of CFE/ CFO/ authorization applications received at the helpdesk can be captured and an acknowledgement can be generated by indicating the period within which the consents/ authorizations needs to be issued from the Regional offices/ Head office. The same module has been web enabled from 01-01-2008 for the use of 22 Regional offices located outside Bangalore. Various reports related to Consents issued / refused / pending etc. can be generated using the module. This module helps to monitor the status of Consent/ authorization applications received by the Board.

## 10.2 Highlights of the Board activities during 2008-09.

- ✍ The Board has formulated guidelines for immersion of Ganesha Idols in water bodies in order to prevent pollution of lakes and other water bodies in the cities and towns of the State. Board has also commissioned mobile immersion tanks in the city of Bangalore for the citizens to use them for immersion of Ganesha Idols, which is ultimately taken for further treatment and disposal at its common effluent treatment plant facility at Peenya. Also directions have been given to the concerned Mahanagara Palike for construction of separate temporary bunds adjacent to existing tanks for immersion of Ganesha Idols during the festival and to dispose the solid waste collected in the bunds in a scientific manner.
- ✍ The Board has sponsored for broadcasting environment awareness programmes on Global Warming and Climate Change by 'Prasar Bharathi', All India Radio, Bangalore.
- ✍ The Board has sponsored for providing rain water harvesting facility to one Government school & conducting training programme by Durga Parameshwari Grameena Samagra Vidya Kala Yuva Abhivridhi Samsthe, Pavagada, Tumkur.
- ✍ The Board has sanctioned Rs.1,00,000/- to 'CARTMAN', Bangalore to conduct environmental awareness programme through audio visual shows for school & colleges of Bangalore Rural & Urban District.
- ✍ The Board has provided financial assistance to 'SHADE', Jyoti Colony, Bidar to conduct environmental awareness programme through street plays on Eco friendly life styles.
- ✍ The Board has sponsored for providing rain water harvesting facility to one Government school/ public building & conducting training programme by 'Sri Santhoshi Matha Service Organization', Thavarekere, Bangalore.
- ✍ The Board has constructed new office building for Udupi Regional Office with ADB funds.



### 10.3 Annual Action plan for the year 2009 – 2010:

- ✍ To establish and upgrade the existing laboratories at Mangalore and create new laboratories at Udupi and Karwar to facilitate better monitoring of coastal areas of the State.
- ✍ To take-up awareness programmes for benefit of general public through Doordharshan and other multi media regarding pollution related activities, its control and remediation. Similar activities are also proposed to be conducted through schools in order to educate children on environmental issues.
- ✍ The Board has issued administrative approval for construction of Green buildings at Bellary, Gulbarga, Bijapur, Bagalkote, Chikkmagalur, Mandya and Chitradurga. The construction of these buildings is being planned during 2009-10.
- ✍ In order to simplify the process being followed to issue consent, Board has proposed to prepare a manual on the 'Consent Procedure' and new 'Consent Application Form'.
- ✍ The Board is proposing to obtain ISO 9001-2000 to the Regional Offices in phases, after implementing restructuring process.
- ✍ Implementing E-governance for speedy disposal of consents.

### 10.4 : Right to Information Act 2005

Right to Information Act 2005 provides for right to the public/citizen of the country the freedom to access information that is under the control of Public Authorities. It also promotes transparency and accountability in the working of every authority.

The State Board is governed under the RTI Act. The State Board took effective initiatives to promote transparency and accountability and to set up a practical regime for giving citizens access to information. The State Board has also disseminated the relevant information in connection with the Board electronically through its website. The Chief Administrative Officer of the KSPCB, the Chief Scientific Officer and the Regional Officers of the Board has been designated as the Nodal officers and the Member Secretary as the Appellate Authority for implementing the RTI Act. During 2008-09, 742 applications were received, of this 741 were disposed. There were 10 appeals before the Appellate Authority and all of them were disposed.





## ANNEXURE - II

### 1.1 Roles and responsibilities of Senior Environmental Officers at zonal level

Senior Environmental Officers are the representatives of KSPCB in their jurisdiction and will be responsible for the following technical, administrative and financial responsibilities/tasks within his/her jurisdiction:

#### Technical:

- ✍ Monitoring the functions of the subordinate RO's and ensuring effective enforcement of all Acts and Rules.
- ✍ Conduct periodic regional meetings to review the progress.
- ✍ Represent the Board in the region for all regional meetings, in public consultation and public hearing.
- ✍ Be responsible for planning for pollution abatement in the region; develop proposals for investigation/surveys to identify new pollution sources. Facilitate regional environmental studies on issues relating to KSPCB's responsibility.
- ✍ Conduct personal hearing and redress complaints.
- ✍ Collect, compile, maintain and update all statistical data of the region and preparation of periodic reports.
- ✍ Plan public awareness and training activities.
- ✍ Pursue all legal cases to its logical end.
- ✍ Responsible for reviewing the consent granted or refused by Regional Officers.
- ✍ Sign affidavits in cases before the High Court and Supreme Court relating to industries for which Regional Officers have granted or refused consent /authorization.
- ✍ Revoke the closure directions with the concurrence of Head Office.
- ✍ Responsible for collection of Consent Fee and Water Cess in the Region.
- ✍ Empowered to issue directions during emergency or during episodal pollution.
- ✍ Coordinate with regional laboratories for sampling and analysis.
- ✍ Carry out any other work assigned by the Board/Chairman/Member Secretary/CEO.

#### Administrative:

- ✍ Act as Appellate Authority under RTI Act (Separate orders to be issued).
- ✍ Write the APRs of the subordinate RO's and their staff and submit to the Head Office for necessary action.
- ✍ Conduct inspections of Regional Offices and initiate enquiry where ever misappropriations



or misconduct or loss of revenue or environmental damage has occurred as a result of inaction by the subordinate Regional Offices and submit report to Head Office for necessary action.

- ✍ Recommend disciplinary action against erring officers/officials.
- ✍ To approve tour programme of RO's, tour diaries and work diaries.
- ✍ Ensure that all the staff of the subordinate offices including that of SEO and his/her staff file the annual Assets and Liability Statements within the prescribed time frame and submit to the Head Office for recording.
- ✍ Approval of CL and recommendation for EL and Commuted leave up to 30 days for the Regional Officer to the Head Office.
- ✍ Carry out any other work assigned by the Board/Chairman/Member Secretary.

### Financial:

- ✍ Approve purchase of fuel for vehicle up to ceiling limit prescribed from time to time and approve purchase of batteries, tyre and tubes for vehicle
- ✍ Approve payment of telephone bills of subordinate staff including that of SEO
- ✍ Countersign TA bills of ROs and forward the same to Head Office for disbursement.
- ✍ Approve minor repairs to vehicles attached to SEO section up to the limit as prescribed from time to time.
- ✍ Carry out any other work assigned by the Board/Chairman/Member Secretary
- ✍ Approve repair to office equipments and purchase of books/manuals required for office work up to the limit as prescribed from time to time

### 1.2 The Roles and Responsibilities of the Regional Offices are as follows:

- ✍ Ensuring effective enforcement of all Acts and Rules.
- ✍ Conducting periodic inspections / monitoring of effluent / air emissions / solid waste / hazardous waste, water and soil samples in the industries / local bodies/water bodies / HCE's. Monitoring of AAQ under NAAQM and Board Programmes and stack emissions monitoring.
- ✍ To collect and consolidate the data in respect of schemes of NAAQM, MINARS, GEMS and Board Programmes.
- ✍ Receive consent / authorization / registration applications of all the industries / local bodies / HCE's irrespective of size and categories and entering the same in the consent module.



- ✍ To receive and dispose public complaints, public grievance.
- ✍ To receive and dispose RTI applications etc.
- ✍ To verify the Water Cess returns furnished by industries and local bodies. To issue cess assessment orders to all the industries and local bodies and to levy interest in case of delay in payment of cess. To maintain the DCB To send monthly cess DCB statement to the Board finance section.
- ✍ Receive environment statement, annual reports of BMW, MSW and hazardous industries, returns under Battery rules. Verify the reports and to communicate it to the higher officers.
- ✍ Represent the Board in all the district meetings i.e. District Environment Protection Authority headed by Deputy Commissioner of the District, Single Window Agency meeting, arrange for Environmental Public Hearing.
- ✍ To conduct district consent committee meeting and to decide on the consent application for issue/refusal.
- ✍ Issue/refuse the consent after the decision by the consent committee in respect of consents i.e. CFO, 2<sup>nd</sup> and subsequent CFO of Red category industries with investment less than 5 crores, 2<sup>nd</sup> and subsequent CFO under Orange and Green category industries irrespective of investment.
- ✍ Forwarding CFE and 1<sup>st</sup> CFO applications of all categories of industries irrespective of investment to Board Office for issue / refuse of consent.
- ✍ To forward all hazardous waste authorization, applications to Board Office for issue / refuse of authorization and to forward the CFE and 1<sup>st</sup> CFO applications of all hazardous waste reprocessing industries for issue / refuse of consent through HWMC.
- ✍ To issue authorization under BMW rules to all the HCE's (HCE's having less than 200 beds) and veterinary institutions. To forward authorization applications of HCE's having more than 200 beds to Board Office for issue / refuse of authorization.
- ✍ To forward all registration applications received under the Plastic Rules to Board office for issue / refuse of registration.
- ✍ To consolidate the annual reports submitted by HCE's in the District and to send details in the prescribed proforma to the Board in order to send the consolidated details to CPCB on or before 31<sup>st</sup> March every year.
- ✍ To issue and collect the analysis charges for the effluent / emission sample collected from industries / local bodies / HCE's etc. To send monthly DCB statement to the Chief Scientific



Officer of Central Laboratory, Bangalore.

- ✍ To issue / refuse the authorization sought by local bodies i.e. CMC, TMC and TP under the Municipal Solid Waste (Management & Handling) Rules, 2000. Forward the authorization applications of City Corporation to Board Office for issue / refuse of authorization. To submit quarterly progress report of all local bodies pertaining to MSW in Form-I and II along with status of STP to Board office.
- ✍ To issue Form-16, Notice of Proposed Directions (NPD) under Section 33(A) of the Water Act and 31(A) of the Air Act and to issue closure orders for the industries who have failed to obtain consent of the Board. To forward draft NPD along with inspection report, Mahazar and other witness in respect of defaulting industries to Board office.
- ✍ To conduct awareness programmes / seminars / workshops in the District on environmental safe guards. To conduct related awareness programme during Ganesh Festival and noise / AAQ monitoring during Deepavali festival.
- ✍ Responsible for planning for pollution abatement in the district, develop proposals for investigation / survey to identify new pollution sources.
- ✍ Preparation of plans and programmes for establishment of common effluent treatment plant in the area.
- ✍ Co-ordinating the work of different agencies for issue of early clearance for establishment of new industries in the area.
- ✍ To get the draft Petitions prepared in connection with filing Court cases.
- ✍ To draw yearly comprehensive programmes for survey of problematic areas and to chalk out preventive measures under Section 17 of Water and Air Acts.
- ✍ To assist the enforcing authorities to draw programmes for control of vehicular emission in the jurisdiction.





## ANNEXURE-III

## Addresses of Offices of the Board:

HEAD OFFICE	PHONE AND TELE-FAX NO.S
Karnataka State Pollution Control Board 4 <sup>th</sup> and 5 <sup>th</sup> Floor, # 49, Church Street, 'Parisara Bhavan', Bangalore -56 0001. <a href="http://kspcb.kar.nic.in">http://kspcb.kar.nic.in</a>	080 - 25588151 25588270 25586520 Fax -080- 25586321

CENTRAL LABORATORY	
Central Laboratory Karnataka State Pollution Control Board Nirman Bhawan, Dr.Rajkumar Road Rajajinagar, <b>Bangalore – 560 010.</b>	080- 23578458 Fax- 080- 23370393

ZONAL OFFICE: BANGALORE CITY	
Senior Environmental Officer – Bangalore City Karnataka State Pollution Control Board “Nisarga Bhavan”, 3 <sup>rd</sup> Floor, Thimmaiah Road, 7 <sup>th</sup> 'D' Cross, Shivanagar, Opp. Pushpanjali Theatre, <b>Bangalore-560 010.</b>	98453-66733
<b>REGIONAL OFFICES:</b>	
Regional Office <b>Bangalore City-1</b> Karnataka State Pollution Control Board “Nisarga Bhavan”, 1 <sup>st</sup> Floor, Thimmaiah Road, 7 <sup>th</sup> 'D' Cross, Shivanagar, Opp. Pushpanjali Theatre, <b>Bangalore-560 010.</b>	080-23228670
Regional Office <b>Bangalore City-2</b> Karnataka State Pollution Control Board “Nisarga Bhavan”, 3 <sup>rd</sup> Floor, Thimmaiah Road, 7 <sup>th</sup> 'D' Cross, Shivanagar, Opp. Pushpanjali Theatre, <b>Bangalore-560 010.</b>	080-23224830



Regional Office <b>Bangalore City-3</b> Karnataka State Pollution Control Board "Nisarga Bhavan", 1 <sup>st</sup> Floor, Thimmaiah Road, 7 <sup>th</sup> 'D' Cross, Shivanagar, Opp. Pushpanjali Theatre, <b>Bangalore-560 010.</b>	080-23229281
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### ZONAL OFFICE: BANGALORE NORTH

Senior Environmental Officer – Bangalore North Karnataka State Pollution Control Board Urban Eco Park, 100 feet road, 3 <sup>rd</sup> Phase, EMPRI Building, 3 <sup>rd</sup> Floor, <b>Bangalore-560 058</b>	99806-22777
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### REGIONAL OFFICES:

Regional Office <b>Bangalore North-1</b> Karnataka State Pollution Control Board Nisarga Bhavan, 2 <sup>nd</sup> Floor, West Wing, Sanegoravanhalli, Thimmaiah Road, Shivanagar, Opp. Pushpanjali Theatre, <b>Bangalore-560 010.</b>	080-23230770
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Regional Office <b>Bangalore North-2,</b> Karnataka State Pollution Control Board Urban Eco Park, 100 feet road, 3 <sup>rd</sup> Phase, EMPRI Building, PIA, <b>Bangalore-560 058</b>	080-28396559
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Regional Office <b>Peenya</b> Karnataka State Pollution Control Board Urban Eco Park, 100 feet road, 3 <sup>rd</sup> Phase, EMPRI Building, <b>Bangalore-560 058</b>	080-28395272
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Regional Office Karnataka State Pollution Control Board Plot No.97, KIADB, Antharasanahalli Industrial Area <b>Tumkur – 572 106.</b>	0816-2211022
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### ZONAL OFFICE: BANGALORE SOUTH

Senior Environmental Officer – Bangalore South  
Karnataka State Pollution Control Board  
“Nisarga Bhavan”, 3<sup>rd</sup> Floor, West wing,  
Sanegoravanahalli, Thimmaiah Road, 7<sup>th</sup> ‘D’ Cross,  
Shivanagar, Opp. Pushpanjali Theatre,  
**Bangalore-560 010.**

98453-80070

### REGIONAL OFFICES:

Regional Office  
Bangalore South-1  
Karnataka State Pollution Control Board  
“Nisarga Bhavan”, 2<sup>nd</sup> Floor, West wing,  
Sanegoravanahalli, Thimmaiah Road, 7<sup>th</sup> ‘D’ Cross,  
Shivanagar, Opp Pushpanjali Theatre,  
**Bangalore-560 010.**

080-23221552

Regional Office  
**Bangalore South-2,**  
Karnataka State Pollution Control Board  
Nisarga Bhavan, 2<sup>nd</sup> Floor, West Wing,  
Sanegoravanahalli, Thimmaiah Road, Shivanagar,  
7<sup>th</sup> ‘D’ Cross, Opp. Pushpanjali Theatre,  
**Bangalore-560 010.**

080-23221575

Regional Office  
**Bangalore-West**  
Karnataka State Pollution Control Board  
2<sup>nd</sup> Floor, Nisarga Bhavan, Sanegoravanahalli,  
7<sup>th</sup> ‘D’ Cross, Thimmaiah Road, Shivanagar,  
Rajajinagar, **Bangalore-560 010**

080-23229124

### ZONAL OFFICE: BANGALORE EAST

Senior Environmental Officer – Bangalore East  
Karnataka State Pollution Control Board  
Nisarga Bhavan, 3<sup>rd</sup> Floor, West Wing,  
Sanegoravanahalli, Thimmaiah Road, Shivanagar,  
Rajajinagar, Opp Pushpanjali Theatre,  
**Bangalore-560 010.**

98453-99611



<b>REGIONAL OFFICES:</b>	
Regional Office <b>Bangalore East-1</b> Karnataka State Pollution Control Board Nisarga Bhavan, 3 <sup>rd</sup> Floor, West Wing, Sanegoravanhalli, Thimmaiah Road, Shivanagar, Opp Pushpanjali Theatre, <b>Bangalore-560 010.</b>	080-23224002
Regional Office <b>Bangalore East-2</b> Karnataka State Pollution Control Board Nisarga Bhavan, 3 <sup>rd</sup> Floor, West Wing, Sanegoravanhalli, Thimmaiah Road, Shivanagar, Opp Pushpanjali Theatre, <b>Bangalore-560 010.</b>	080-23230153
Regional Office Karnataka State Pollution Control Board Plot No.14, KIADB Industrial Area, Tamaka, <b>Kolar-563101.</b>	08152-243199

<b>ZONAL OFFICE: DHARWAD</b>	
Senior Environmental Officer – Dharwad Karnataka State Pollution Control Board Ground Floor, Plot No.4, Lakkamanahalli Industrial Area, P.B.Road <b>Dharwad – 580 004.</b>	98453-95956
<b>REGIONAL OFFICES:</b>	
Regional Office Karnataka State Pollution Control Board #1, Main Road, Auto Nagar, Kanbargi Industrial Area, <b>Belgaum – 590 015.</b>	0831-2459956
Regional Office Karnataka State Pollution Control Board Plot No.33 E, Sector No.32, Navanagar, <b>Bagalkote-587 102.</b>	08354-236031



Regional Office Karnataka State Pollution Control Board Plot No.4, Lakkamanahalli Industrial Area, P.B.Road <b>Dharwad – 580 004.</b>	0836-2462918
Regional Office Karnataka State Pollution Control Board H.No.310 & 311, Opp Karnataka Vikas Grameen Bank, Near Ibrahimpur Railway Gate, Mangoli Road, <b>Bijapur-586 101</b>	08352-276666
Regional Office Karnataka State Pollution Control Board Plot No.501, Near Central Excise & Customs Office “C” Block, Devaraja Urs Layout <b>Davangere – 577 006.</b>	08192-252895

#### ZONAL OFFICE: BELLARY

Senior Environmental Officer – Bellary Karnataka State Pollution Control Board No.7, Ward No-1, K.H.B Colony, Near S.P.Circle, Parvathi Nagar, <b>Bellary – 583 103.</b>	98453-10957
<b>REGIONAL OFFICES:</b>	
Regional Office Karnataka State Pollution Control Board No.7, Ward No-1, K.H.B Colony, Near S.P.Circle, Parvathi Nagar, <b>Bellary – 583 103.</b>	08392-267514
Regional Office Karnataka State Pollution Control Board 1 <sup>st</sup> Floor, Gulbarga Development Authority Building, Near S.V.P.Chowk, <b>Gulbarga – 585 102.</b>	08472-256246



Regional Office Karnataka State Pollution Control Board Plot No.42, B-2, KIADB Office Building Naubad Industrial Area <b>Bidar – 585 403.</b>	08482-232322
Regional Office Karnataka State Pollution Control Board M.S.Chamber, 1 <sup>st</sup> Floor, Beside S.S.I.Yuva.com Computers, Lingasugur Road, <b>Raichur – 584 101.</b>	08532-227989
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, <b>Chitradurga-577 501.</b>	08194-231422
Regional Office Karnataka State Pollution Control Board Building No.9-768/120, Nilugul Complex, 1 <sup>st</sup> Floor, Opp PLD Bank, Hosmat Road, <b>Koppal-583231.</b>	08539-222234

#### ZONAL OFFICES: UDUPI

Senior Environmental Officer – Udupi Karnataka State Pollution Control Board Plot No.36-C, Shivally Industrial Area, Manipal, <b>Udupi</b>	98453-86861
<b>REGIONAL OFFICES:</b>	
Regional Office Karnataka State Pollution Control Board Plot No.36-C, Shivally Industrial Area, Manipal, <b>Udupi</b>	0820-2572862
Regional Office Karnataka State Pollution Control Board House No:10B, Baikampady Industrial Area, <b>Mangalore – 575 011.</b>	0824-2408239



Regional Office Karnataka State Pollution Control Board Sri Govinda Nilaya, 1 <sup>st</sup> Parallel Road, Durgigudi <b>Shimoga – 577 201</b>	08182-260090
Regional Office Karnataka State Pollution Control Board New Municipal No.1019-1015, Hosamane Main Road, Hosamane Extension, <b>Chikkmagalur-577 101</b>	08262-229694
Regional office Karnataka State Pollution Control Board Civil Court Road, Opp.Karwar Development Board, <b>Karwar-581306</b>	08382-227058

#### ZONAL OFFICE: MYSORE

Senior Environmental Officer – Mysore Karnataka State Pollution Control Board No.436-D, 1 <sup>st</sup> Floor, Hebbal Industrial Area, K.R.S Road, Metagalli, <b>Mysore-570016</b>	98453-81819
<b>REGIONAL OFFICES:</b>	
Regional Office Karnataka State Pollution Control Board No.436-D, Hebbal Industrial Area, K.R.S Road, Metagalli, <b>Mysore-570016</b>	0821-2519411
Regional Office Karnataka State Pollution Control Board #D.2:1388:1642, 2 <sup>nd</sup> Cross, Bandigowda Layout, <b>Mandya-571 401</b>	08232-239146



Regional Office Karnataka State Pollution Control Board No.9/133, 2 <sup>nd</sup> Floor, SPS Complex, Vaniyar Street, <b>Chamarajanagar-571 313</b>	08226-223846
Regional Office Karnataka State Pollution Control Board Site No. 1A, B.Katihalli Industrial Area, B.M. Road, <b>Hassan – 573 201.</b>	08172-240265





**ANNEXURE- IV**  
**Staff Position of K.S.P.C.B as On 31.3.2009**

SL- No.	Officer	As per 1992 C&R	Govt. letter Dated 16/8/97	Approved in Board Meeting	G O . N o . FEE 4 EPC in 160 <sup>th</sup> Board Dt: 5.8.02 Meeting	Approved in 160 <sup>th</sup> Board Meeting	Total	Working Strength	Vacancy
<b>TECHNICAL STAFF</b>									
I									
1	Chief Environmental Officer	—	—	02	—	—	02	01 A/c	—
2	Senior Environmental Officer	—	—	03 As per govt. It	—	12	15	16	—
3	Environmental Officer	—	—	—	—	41 (Revised)	41	32	09
4	Deputy Environmental officer	—	—	—	—	41 (Revised)	41	30	11
5	Assistant Environmental officer	76	76	—	—	—	152	49	103
	<b>Total</b>	<b>76</b>	<b>76</b>	<b>05</b>	<b>—</b>	<b>94</b>	<b>251</b>	<b>128</b>	<b>123</b>
<b>SCIENTIFIC STAFF</b>									
II									
6	Chief Scientific Officer	—	01	01	—	—	02	01	01
7	Senior Scientific Officer	—	—	—	—	04	04	—	04
8	Scientific Officer	—	—	—	—	15 (Revised)	15	07	08
9	Deputy Scientific officer	—	—	—	—	15 (Revised)	15	15	—
10	Assistant Scientific Officer	09	10	15	—	—	34	11	23
11	Scientific Assistant	—	—	—	—	51 (Revised)	51	11	40
12	Field Assistant	—	—	—	17 (Revised)	—	17	04	13
	<b>Total</b>	<b>09</b>	<b>11</b>	<b>16</b>	<b>17</b>	<b>85</b>	<b>138</b>	<b>49</b>	<b>89</b>



ADMINISTRATION, ACCOUNTS AND OTHERS												
13	Chief Administrative Officer	01	---	---	---	---	---	---	---	01	01	---
14	Chief Accounts Officer	01	---	---	---	---	---	---	---	01	01	---
15	Law Officer	01	---	---	---	---	---	---	---	01	---	01
16	Public Relation Officer	01	---	---	---	---	---	---	---	01	01	---
17	Law Assistant	06	---	---	---	---	---	---	---	06	03	03
18	Assistant Administrative Officer	---	---	---	---	---	---	14 (Revised)	---	14	05 l/c	09
19	Superintendent	---	---	---	---	---	---	23 (Revised)	---	23	21	02
20	Librarian	01	---	---	---	---	---	---	---	01	---	01
21	Assistant Statistical Officer	01	---	---	---	---	---	---	---	01	---	01
22	First Division Assistant	14	26	---	---	---	---	---	---	40	10	30
23	Stenographer	---	---	---	---	---	6 (Revised)	---	---	06	02	04
24	Electrician	---	01	---	---	---	---	---	---	01	---	01
25	Senior Data Entry Operator/Sr. Typist.	12	33	---	---	---	---	+5	---	50	07	43
26	Second Division Assistant	---	---	---	---	---	20 (Revised)	+47	---	67	15	52
27	Selection grade driver/ Sr. Driver/Driver	---	---	---	---	---	50 (Revised)	---	---	50	1 l/c, +19	30
28	Daffedar/Xerox operator /peon/watchman	---	---	---	---	---	50 (Revised)	---	---	50	33	17
	<b>Total</b>	<b>58</b>	<b>60</b>	---	---	---	<b>126</b>	<b>89</b>	---	<b>313</b>	<b>119</b>	<b>194</b>
	<b>GRAND TOTAL</b>	---	---	---	---	---	---	---	---	<b>702</b>	<b>296</b>	<b>406</b>

During the reporting year Board employee, Sri.Sriramulu, Daffedar, retired on 30-06-2008.



## ANNEXURE-V(A)

### ‘Technical Advisory Committee’ members

(upto January 2009)

Sl. No	Name & Address	Designation
1	Dr.D.L.Manjunath, “Tunga”, Near Eshwara Temple, Gowri Koppal Road, Hassan-573201.	Chairman
2	Dr. Chanakya, Centre for Sustainable Technology, Indian Institute of Science (IISc), Bangalore – 560 012.	Member
3	Dr. H.R. Raja Mohan. Head, Regional Occupational Health Center (Southern), Indian Council of Medical Research, Bangalore Medical College Campus, Bangalore.	Member
4	Dr.G.Srinikethan, Professor, Dept. of Chemical Engineering, Karnataka Regional Engineering Colleges, Suratkal, Srinivasa Nagar – 574 157.	Member
5	Joint Director (AEP), Director of Industries & Commerce.	Member
6	Sri. Ifthikar Development Officer, KIADB, 4th Floor, Kheny Building, Behind Tribuvan Talkies, Gandhi Nagar, Bangalore – 560 009.	Member
7	Dr.S.Manjappa, Professor & Head, Chemistry & Environmental Science & Technology Study Centre, Bapuji Institute of Engineering & Technology, Davangere – 577 004.	Member
8	Sri.H.Srinivasaiah, Director of Factories & Boilers, Department of Factories & Boilers, Karmika Bhavana, 2nd Floor, ITI Compound, Near Dairy Circle, Bannerghatta Road, Bangalore – 560 029.	Member
9	Sri. M.D.N.Simha, Chief Environmental Officer, KSPCB.	Member
10	Prof. M.S.Shaila, Department of Microbiology & Cell Biology, Indian Institute of Science, Bangalore – 560 012.	Special Invitee
11	Sri. S.Nanda Kumar, Environmental Officer, KSPCB.	Member Convener



## ANNEXURE-V(B)

### ‘Technical Advisory Committee’ members

(From February 2009)

Sl. No	Name & Address	Designation
1	Dr.D.L.Manjunath, “Tunga”, Near Eshwara Temple, Gowri Koppal Road, Hassan–573201.	Chairman
2	Dr. Chanakya, Centre for Sustainable Technology, Indian Institute of Science (IISc), Bangalore – 560 012.	Member
3	Head, Regional Occupational Health Center (Southern), Indian Council of Medical Research, Bangalore Medical College Campus, Bangalore.	Member
4	Dr.G.Srinikethan, Professor, Dept. of Chemical Engineering, NIT, Suratkal.	Member
5.	Sri.M.D.N.Simha, Chief Environmental Officer	Member
6.	Dr.Jayaprakash, Former Principal, Bangalore Institute of Technology and currently president of the India chapter of American Chapter for Hazardous Materials Management (ACHMM), Bangalore	Member
7.	Dr.S.Manjappa Prof., Chemistry & Environmental Science and Technology Study Center, BIET, Davangere	Member
8.	The Director or his representative, Department of Factories & Boilers	Member
9.	Managing Director, Karnataka Council for Technology up-gradation, 4 <sup>th</sup> Floor, Basava Bhavana, Basveshwara Circle, Bangalore-01	Member
10.	Prof.(Smt) M.S.Shaila, Department of Microbiology & Cell Biology, Indian Institute of Science (IISc), Bangalore	Special Invitee for Biotech projects and the related subject
11.	Sri.N.R.Raju, Environmental Officer, KSPCB	Member Convener



### ANNEXURE- VI-A

#### 'Library and Laboratory Committee' members

(upto January 2009)

Sl. No	Name & Address	Designation
1.	Member Secretary, K.S.P.C.B, Bangalore	Chairperson
2.	Chief Environmental Officer, K.S.P.C.B., Bangalore	Member
3.	Dr. Shiva Prakash, Department of Instrumentation Technology, I.I.Sc, Bangalore	Member
4.	Prof. Katti, College of Fisheries, Mangalore	Member
5.	Sri M.N. Jayaprakash, Senior Environmental Officer, K.S.P.C.B, Bangalore	Member
6.	Chief Accounts Officer, K.S.P.C.B, Bangalore	Member
7.	Chief Scientific Officer, K.S.P.C.B, Bangalore	Member
8.	Smt. Lokeshwari, Scientific Officer, K.S.P.C.B, Bangalore	Member Convener

### ANNEXURE- VI- B

#### 'Library and Laboratory Committee' members

(From February 2009)

Sl. No	Name & Address	Designation
1.	Member Secretary, K.S.P.C.B, Bangalore	Chairperson
2.	Sri.T.N.Parmesh, Board Member	Member
3.	Dr. Shiva Prakash, Department of Instrumentation Technology, I.I.Sc, Bangalore	Member
4.	Prof. R.J.Katti (Retd. Prof), Srimangala, Plot No.51, Santhosh Colony, Udnoor Road, Gulbarga-2	Member
5.	Sri.M.D.N.Simha, Chief Environmental Officer, KSPCB	Member
6.	Nominee of Zonal Laboratory, CPCB, Bangalore	Member
7.	Chief Scientific Officer, KSPCB	Member
8.	Representative from M/s.GE JFWTC, Bangalore	Special Invitee
9.	Sri M.N. Jayaprakash, Senior Environmental Officer, K.S.P.C.B, Bangalore	Member Convener



## ANNEXURE- VII- A

### Awareness Committee members

(upto January 2009)

Sl. No	Name & Address	Designation
1.	Sri M.N. Jayaprakash, S.E.O, K.S.P.C.B, Bangalore	Chairperson
2.	Smt. Mahalakshmi Parthasarathy Environmental Awareness Specialist, Amara Canopy, 33/34, Apartment, #302, 6 <sup>th</sup> Cross, BTM 2nd Stage, Bangalore-560076	Member
3.	Smt. Poornima D.G. Public Affair Centre (NGO) # 422, 80 Feet Road, VI <sup>th</sup> Block, Koramangala, Bangalore-560 095.	Member
4.	Sri Mohan Kondajji, # 218, First Floor, 15 <sup>th</sup> 'C' Cross, Mahalaxmipuram, Bangalore-86.	Member
5.	Representative of Information and Publicity Dept, Shivajinagar Bus Stand, Shivajinagar, Bangalore.	Member
6.	Chief Accounts Officer, K.S.P.C.B, Bangalore	Member
7.	Public Relation Officer, K.S.P.C.B, Bangalore	Member Convener

## ANNEXURE- VII B

### Awareness Committee members

(From February 2009)

Sl. No	Name & Address	Designation
1.	Sri M.N. Jayaprakash S.E.O, K.S.P.C.B, Bangalore	Chairperson
2.	Smt. Mahalakshmi Parthasarathy Environmental Awareness Specialist, Amara Canopy, 33/34, Apartment, #302, 6 <sup>th</sup> Cross, BTM 2nd Stage, Bangalore-560076	Member
3.	Smt. Poornima D.G. Public Affair Centre (NGO) # 422, 80 Feet Road, VI <sup>th</sup> Block, Koramangala, Bangalore-560 095.	Member



4.	Sri Mohan Kondajji, # 218, First Floor, 15 <sup>th</sup> 'C' Cross, Mahalaxmipuram, Bangalore-86.	Member
5.	Representative of Information and Publicity Dept, Shivajinagar Bus Stand, Shivajinagar, Bangalore.	Member
6.	Sri.Venugopal, Board Member	Member
7.	Sri.S.C.Chandu, Board Member	Member
6.	Chief Accounts Officer, K.S.P.C.B, Bangalore	Member
7.	Public Relation Officer, K.S.P.C.B, Bangalore	Member Convener

## ANNEXURE VIII

### CATEGORISATION OF INDUSTRIAL SECTORS AS RED, ORANGE AND GREEN

Re-Categorization of Industries effective from 1.4.2005

#### RED CATEGORY OF INDUSTRIES :

Nuclear power and related projects such as Heavy Water Plants, Nuclear Fuel Complex, Rare Earths.	1.
River valley projects including hydel power, major irrigation and their combination including flood control.	2.
Ports, Harbours, Airports (except minor ports and harbours)	3.
Petroleum Refineries including crude and product pipelines.	4.
Petrochemical complexes (both Olefinic and Aromatic) and petrochemical intermediates such as DMT, Caprolactam, LAB etc., and production of basic plastics such as LDPE, HDPE, PP, PVC.	5.
Petroleum storage, gas filling and transfer facilities.	6.
Chemical fertilizers (Nitrogenous and Phosphatic other than single super phosphate).	7.
Pesticides (Technical) (except formulation)	8.
Bulk drugs and pharmaceuticals (except formulation)	9.
Exploration for oil and gas and their production, transportation and storage.	1C.
	11.
	12.
Asbestos and Asbestos products.	12.
Hydrocyanic acid and its derivatives.	13.
Primary metallurgical industries (such as production of Iron and Steel, aluminium, Copper, Zinc, Lead and Ferro Alloys)	(a) 14.
Electric arc furnaces (mini steel plants)	(b)
Ferrous and Non-Ferrous metal extraction.	(c)
Dry coal processing/mineral processing industries like ore sintering, beneficiation, pelletisation, etc.	15.
Coke oven by-products and coal tar distillation products.	16.
Coke making	17.
	1E.
Integrated paint complex including manufacture of resins and basic raw-materials required in the manufacture of paints.	1S.
	2C.
Paints, enamels and varnishes.	2C.
Viscose staple fiber and filament yarn.	21.
Storage batteries integrated with manufacture of oxides of lead and lead antimony alloy	22.
Thermal power plants (including coal, oil, nuclear, agro waste, etc., and barge mounted, co-generation)	23.





24.	Mining projects (major minerals) with lease area more than 5 hectares.
25.	Highway projects.
26.	Tarred roads in Himalayas and/or Forest areas.
27.	Distilleries (except re-distilling and bottling).
28.	(a) Raw Skins and Hides (including processing of internal organs). (b) Unhairing, soaking, Deliming, Bating of hides.
29.	Slaughtering of animals, rendering of bones, washing of meat and meat processing.
30.	Leather industry including tanning and processing.
31.	(a) Pulp, Paper and Newsprint. (b) Kraft paper mills. (c) Manufacture of pulp-wood pulp, mechanical and chemical (including dissolving pulp),
32.	Dyes & Dye Intermediates.
33.	Pigment dyes and their intermediates.
34.	Foundries (individuals).
35.	Electroplating.
36.	Surface coating industries.
37.	Bleaching.
38.	Degreasing.
39.	Phosphating.
40.	Pickling and Tanning.
41.	(a) Miscellaneous glassware without involving use of fossil fuel combustion. (b) Glass and Glass products involving use of coal.
42.	Surgical and medical products containing prophylactics and latex products.
43.	Instant Tea/Coffee processing.
44.	Glue and Gelatin. <b>(Except vegetable glue)</b>
45.	Metallic Sodium.
46.	Manufacture of photographic films, papers and photographic chemicals including film processing.
47.	Phosphate rock processing plants.
48.	(a) Cement plants with horizontal rotary kilns including bagging. (b) Cement plants with vertical shaft kiln technology.



49.	Manufacture of lubricating oils and grease.
50.	Vanaspathi hydrogenated vegetable oils and industrial purposes.
51.	Sugar Mills (white and khandasari).
52.	Potash manufacturing.
53.	Electro-thermal products (artificial abrasives, calcium carbide, etc.).
54.	Phosphorous and its compounds.
55.	Acids and their salts (organic & inorganic).
56.	Nitrogen compounds (cyanides, cyanamides and other nitrogen compounds).
57.	Explosives (including industrial explosives, detonators and fuses).
58.	Phthalic anhydride.
59.	Processes involving chlorinated hydrocarbon.
60.	Chlorine, fluorine, bromine, iodine and their compounds.
61.	Synthetic fibers.
62.	Fiber glass production and processing.
63.	Industrial carbons (including graphite electrodes, modes, midjet electrodes, graphite blocks, graphite crucibles, gas carbons, activated carbon, synthetic diamonds, carbon black, channel black, lamp black, etc.)
64.	Electro-chemicals.
65.	Polypropylene.
66.	Chlorates, Perchlorates and Peroxides.
67.	Synthetic resin and plastic products.
68.	Dyeing & Printing.
69.	Chemical industries.
70.	Cooking of fibers & digesting.
71.	Pulping and fermenting of coffee beans.
72.	Processing of fish.
73.	Vegetable oil refinery.
74.	Manufacture of soaps & detergents. <b>(Except tiny/cottage unit)</b>
75.	Manufacture of insecticides, fungicides, herbicide and pesticides.
76.	Natural Latex. <b>( Excluding tiny/cottage unit)</b>



77.	Hazardous waste processing facilities and dump sites.
78.	All barge-mounted power plants.
79.	Import & storage of hazardous chemicals.
80.	Import and storage of oil.
81.	Paint manufacture.
82.	Lead refining.
83.	Vinyl resin.
84.	Engineering industries (with electroplating and heat treatment).
85.	Holiday Resorts, Beach Resorts & Jungle Resorts. <b>(With electroplating)</b>
86.	Tourism projects coming under CRZ.
87.	Incineration plants.
88.	Abattoir.
89.	Wire drawing process involving pickling etc., except cold process
90.	Electric bulb filament processing.
91.	Mining and quarry industries.
92.	Tyre manufacture.
93.	Composite textile processing (except spinning).
94.	Printed circuit board manufacturing units.
95.	Fish processing with peeling.
96.	Hotels with electroplating.
97.	Paper board and straw boards <b>manufactured using pulp.</b>
98.	Galvanizing.
99.	Formulation of <b>Pesticide</b> , herbicide, insecticide, & fungicide
100.	Aquaculture pond including prawn hatcheries.
101.	Separation of milk and whey.
102.	Manufacture of Chocolate, cocoa, mass etc., <b>(Other than confectioneries)</b> .
103.	Common disposal facility –hazardous waste, bio medical waste
104.	Liquid propulsion & rocket testing facility
105.	All CETP's



106.	Polyester filming yarn
107.	Audio & video film processing including polyester film processing
108.	Shaving blade manufacturing
109.	Automobile body building with metal processing
110.	Fire Crackers
111.	Tobacco products including cigarettes and tobacco processing
112.	Naval Base
113.	Rubber reclaiming
114.	Lime kilns
115.	Refractories
116.	Nylon Plants
117.	Stone crushers
118.	Dairy
119.	Food Processing
120.	CNS Shell oil manufacture
121.	Hospital, nursing homes, veterinary hospitals diagnostic laboratories covered under BMW Rules
122.	Composting of Press mud using Spent Wash
123.	Manufacture of Office & Household equipments and appliances using fossil fuel for combustion.
124.	Manufacture of Organic nutrients including use of spent wash from distillery.
125.	Manufacture of Bio fertilizer involving spent wash.
126.	Manufacture of Bio Pesticides.
127.	Bio mass power generation.
128.	Meta Amino Phenol.
129.	Research laboratories involving chemicals/animals.
130.	Recycling of Ferrous /non ferrous metal units covered under HWM Rules
131.	Recycling of spent oil/used oil covered under HWM Rules
132.	Municipal Solid Waste treatment and disposal facility
133.	Coke oven plant
134.	Sponge iron unit



	Hot mix plants	135.	
	Lead Recycling units involving melting.	136.	
	Independent ore / mineral crushing units	137.	

### ORANGE CATEGORY OF INDUSTRIES:

Manufacture of <del>refrigerators</del> Household <del>refrigerators</del> and appliances		1	
Distillation of alcohol/stillage evaporation.		2	
Manufacture of mirror from sheet glass and photo framing.		3	
	Surgical gauges and bandages.	4	
Automobile servicing and repair stations.		5	
	Formulations of pharmaceuticals.	6	
	Potassium permanganate.	7	
	Fragrance, flavours and food additives.	8	
	<b>with wastewater generation</b>	9	
	Washing of fabric.	1C.	
Trimming, cutting, juicing and blenching of fruits and vegetables (fruit processing, pulping, etc.)		11.	
Washing of equipments and regular floor washing using considerable cooling water.		12.	
	Steeping and processing of grain.	13.	
Filtration, centrifugation and distillation.		14.	
DM plant exceeding 20 Kilo Liters per day capacity.		15.	
Solvent extraction plants (excluding refining).		16.	
	Hotels with laundry.	17.	
	Rerolling Mill.	18.	
Ceramic tiles and products (other than small ceramics)	Milk chilling center.	19.	
	Shell grit and shell grit powder.	21.	
	Hatcheries.	22.	
	Cattle feed and poultry feed.	23.	



24.	IMF bottling plant.
25.	Plywood manufacturing particle boards & veneers.
26.	Engineering industries with spray painting (without electroplating and heat treatment).
27.	Automobile leaf springs.
28.	Foam rubber.
29.	Fenny manufacture.
30.	Pulverising activity.
31.	Tamarind powder.
32.	Sago units.
33.	Salt manufacturing units.
34.	Malted food (except packing)
35.	Washing of Fabric & Jean washing & laundry
36.	Fish processing without peeling.
37.	Boiled rice (steamed)
38.	Surgical and Medical Products not containing prophylactics and latex product.
39.	Vegetable glue.
40.	Blending of Lubricating Oils and Grease.
41.	Gherkin Industries.
42.	Industrial estates/ areas.
43.	Holiday Resorts/ Jungle resorts with laundry.
44.	Mining of Minor Minerals.
45.	Industrial gases other than Nitrogen, Oxygen and Carbon di-Oxide.
46.	Stone cutting and polishing using water.
47.	Arrack bottling
48.	Soft drinks, aerated waters excluding pulp based with production capacity more than 10,000 bottles of 300 ml equivalent/ bottle
49.	Mineral water more than 10,000 Liters/day
50.	Mechanized Concrete batch mixing plants
51.	Cement bulk storage attached with bagging plant/bulk supply in tankers



### GREEN CATEGORY OF INDUSTRIES:

1	1.1	RCC Railway Sleepers
	1.2	Pre Cast RCC members such as Columns, Electrical poles, Chejjas,
	1.3	RCC Spun Pipes, Hollow bricks
	1.4	Mosaic tiles
	1.5	Inter locking paving blocks
	1.6	Fly ash bricks
2	2.1	Manual and wire cut bricks
	2.2	Roofing tiles, ridges, decorative tiles
	2.3	Terra-cotta
	2.4	Stone ware pipes
	2.5	Refractory bricks
3		Cashew Nut Processing including cashew roasting
4		Coffee curing, roasting and grinding
5		Tea Leaf processing including re-packing
6	6.1	All hotels, Bar & Restaurants & resorts (without laundry and electroplating Not located in CRZ areas, reserve forests & not included in EIA Notification)
	6.2	Kalyanamantapams & Community Halls.
7		Industries under Item No 7.1 to 7.7 without washing dyeing, and other water based finished operation
	7.1	Garment Stitching
	7.2	Label manufacturing
	7.3	Cotton & Woolen Hosiery apparels
	7.4	Cotton knitting including Socks, Shoe lace
	7.5	Cotton spinning, yarn doubling & weaving
	7.6	Handlooms & power looms
	7.7	Carpet Weaving
	7.8	Silk twisting (excluding dyeing & de-gumming)
8		Industries Under Item No. 8.1 to 8.3 Excluding tanning operations



8.1	Ready made leather garments
8.2	Stitching of shoe uppers
8.3	Assembly of shoes & leather chappals
8.4	Conversion of finished leathers such as manufacture of bags, suitcases, etc
9	Items No 9.1 to 9.5 without Rubber reclaiming/reprocessing
9.1	Tread rubber including pre-cured rubber
9.2	Tyre retreading (Cold & Hot process)
9.3	Rubber tubes
9.4	Rubber foot wear
9.5	Rubber molded articles like gasket, washers, Rubber mats, rollers etc.
10	Poultry Farms & hatcheries excluding prawn hatcheries
11	Flori-cultures & Horticultures
12	Block making printing offset printing, Book binding, Screen Printing
13	Rice Hulling & Phova manufacturing industries
14	
14.1	Wooden furniture, carpentry units.
14.2	Steel furniture manufacturing without powder coating units & without generation of trade effluents
14.3	Bamboo & cane products
14.4	Saw mills
14.5	Manufacturing of veneer only
15	Fish net manufacturing without dyeing
16	Automobile body building without generation of trade effluents, repair shops without water washing, wheel alignment centers
17	Body building of wooden boats & trawlers
18	Assembly units under Item No. 18.1 to 18.7 (without electroplating, heat treatment, surface finishing such as pickling, Phosphating, de-rusting, degreasing, PCB manufacturing)
18.1	Electrical appliances including washing machines & refrigerators including others home appliances
18.2	Electronic equipment such as TV's , Radios, VCR, UPS, Computer, Telephones, electronic toys, etc,
18.3	Air Coolers, Air Conditioners





18.4	Bicycle assembly
18.5	Motor & Pumps without foundry
18.6	Transformer assembly, Motor rewinding
18.7	Weighing machines
19	Tablets, capsules formulations (dry process)
20	Ground nut decorticating units
21	Manufacturing of agro-based fuel briquettes
22	Item No. 22.1 to 22.4 without recycling
22.1	PVC pipes, HDPE pipes etc., by extrusion
22.2	Plastic injection/ extrusion molding
22.3	Plastic sack bags, woven sack with HDPE, LDPE, Polythene bags (without recycling plastic)
22.4	Assembly of plastic components for making toys etc.
23	Ice blocks manufacturing, cold storage & refrigeration rooms
24	Vegetable Oil expellers without refinery & solvent extraction
25	Bakery products, biscuits, confectionery (without Cocoa processing), vermicelli, Fryums
26	Welding electrodes
27	Dal Mills, grams roasting, drying
28	Re- packing of finished products (Dry products)
29	Soft drinks, aerated waters excluding pulp based with production capacity less than 10,000 bottles of 300 ml equivalent/ bottle ( without <b>caustic</b> washing)
30	Wind power projects
31	Snuff manufacturing, Beedi manufacturing, chewing tobacco
32	Umbrellas Assembly, rain coat stitching, tarpaulin stitching
33	Atta chakkies, chilly & masala powder, powdering of spices
34	General Engineering Industries (Excluding electroplating, heat treatment, forging, casting, pickling de-greasing Phosphating, de-rusting, quenching)
35	Jaggery manufacturing
36	Motor rewinding
37	Mineral water less than 10,000 Liters/day



38	Industrial gases (only Nitrogen, Oxygen & Carbon Dioxide)
39	Laboratory ware including glass blowing
40	Optical frames without electroplating
41	Wax Candles (excluding manufacturing of waxes)
42	Betel Nut process
43	Utensils, Brass, Aluminum, Bronze
44	Cotton ginning
45	Black smithy without foundries
46	Brush making with fibres / Plastic
47	Hair sizing
48	Building accessories such as padlocks, tower bolts, Nails, Screws without electroplating
49	Paper pins u_clips, pen holders, pencils, pen & paper products without electroplating
50	Sports Goods
51	Panel Board, Switches without electroplating
52	Plastic Cable manufacturing
53	Agarbathi Manufacturing
54	Dry distempers without kilns / furnace
55	Manufacture of corrugated box and cartoons using paper
56	Fiber glass molding, Fiber Glass reinforced plastic
57	Safety Match sticks
58	Coir Units (without soaking) & Coir furnishing units
59	Ropes (cotton, Plastic & Coir)
60	Stone Cutting (without using water)
61	Paint formulations
62	Apartments
63	Cinema Theaters
64	Commercial Complexes
65	Telephone Towers
66	Office Complex/Banks



67	Formulation Organic Nutrient without the use of spent wash from distillery.
68	Manufacture of Soaps and Detergents in tiny/cottage sector.
69	Natural Latex in tiny /cottage sector.
70	Flour mill involving dry process.
71	Manufacture of Bio-fertilizer not involving spent wash.
72	Formulation of Bio- Pesticides.
73	Research laboratories not involving chemicals/animals.
74	STP's Provided in Organizations for which there is no specific classification
75	Gutka Packing units
76	Software units
77	Constructions projects covered under EIA notification excluding projects like Hospitals, hotels etc for which there is specific classification
78	Hydel power plants/Canal power projects not covered under EIA notification
79	Ice cream units only tiny sector
80	Plastic units covered under Plastic Rules 1999, 2003
81	Fabrication units with painting (without generation of trade effluents)
82	Ayurvedic, Unani, Sidda Medicine manufacturing units without solvent extraction process
83	Cattle feed/poultry feed supplement manufacturing units (without the use of molasses)
84	Pickle Industry (stand alone)
85	Maize flakes and Maize grit manufacturing activity
86	Press Board Manufacturing activity



## ANNEXURE – IX

### CONSENT FEE STRUCTURE

Sl. No.	Capital Investment by Industries	Consent fee in rupees for different categories of industries		
		Category Red	Category Orange	Category Green
1.	Exceeding Rupees 1000 crores	2,00,000	1,75,000	1,50,000
2.	Exceeding Rs.500 crores but not exceeding Rs.1000 crores	1,50,000	1,25,000	1,00,000
3.	Exceeding Rs.250 crores but not exceeding Rs.500 crores	1,00,000	90,000	75,000
4.	Exceeding Rs.50 crores but not exceeding Rs.250 crores	75,000	60,000	50,000
5.	Exceeding Rs.25 crores but not exceeding Rs.50 crores	50,000	40,000	30,000
6.	Exceeding Rs.10 crores but not exceeding Rs.25 crores	30,000	25,000	20,000
7.	Exceeding Rs.5 crores but not exceeding Rs.10 crores	20,000	17,500	15,000
8.	Exceeding Rs.1 crore but not exceeding Rs.5 crores	15,000	12,500	10,000
9.	Exceeding Rs.50 lakhs but not exceeding Rs.1 crore	6,000	5,000	4,000
10.	Exceeding Rs.25 lakhs but not exceeding Rs.50 lakhs	3,000	2,500	2,000
11.	Exceeding Rs.10 lakhs but not exceeding Rs.25 lakhs	2,000	1,750	1,500
12.	Exceeding Rs.5 lakhs but not exceeding Rs.10 lakhs	1,500	1,250	1,000
13.	Exceeding Rs.1 lakh but not exceeding Rs.5 lakhs	500	250	200
14.	Rs.1 lakh & below	200	150	100

This table was notified in the Government Gazette dated 2.4.1998 under Air (P&CP) Act, 1981 & dated 20.4.1998 under Water (P&CP) Act, 1974.

Categories of industries into "Red", "Orange", "Green" is as per the Official Memorandum No.J20011/15/88-IA, dated 27-9-1988 of the Ministry of Environment and Forest, Government of India, as amended from time to time.



**ANNEXURE- X (A)**  
**State Level Consent Committee**  
**(Consent for Establishment and Expansion)**  
**(upto February 2009)**

Sl. No	Name & Address	Designation
1	Chairman, K.S.P.C.B, Bangalore	Chairperson
2	Member Secretary, K.S.P.C.B, Bangalore	Co-Chairperson
3	Representative of BDA	Member
4	Representative of BWSSB	Member
5	Sri R.C. Purohit, President, Chamber of Commerce, F.K.C.C.I, K.G. Road, Bangalore	Member
6	Sri. M.D.N. Simha, Chief Environmental Officer, K.S.P.C.B, Bangalore	Member
7	Sri. S. Ramakrishna, Senior Environmental Officer, K.S.P.C.B, Bangalore	Member
8	Sri. N.R. Raju, Environmental Officer, K.S.P.C.B, Bangalore	Member Convener

**ANNEXURE- X (A-1)**

**State Level Consent Committee**  
**(Consent for Establishment and Expansion for EIA Category Projects)**

**(From March 2009)**

Sl. No	Name & Address	Designation
1	Chairman, K.S.P.C.B, Bangalore	Chairperson
2	Member Secretary, K.S.P.C.B, Bangalore	Co-Chairperson
3	Sri.T.N.Paramesh, Board Member	Member
4	Representative of FKCCI	Member
5	Representative of BBMP	Member
6	Representative of BWSSB	Member
7	Sri. M.D.N. Simha, Chief Environmental Officer, K.S.P.C.B, Bangalore	Member
8	Secretary, KASSIA	Member
9	Sri. N.R. Raju, Environmental Officer, K.S.P.C.B, Bangalore	Member Convener



**ANNEXURE- X-B**  
**State Level Consent Committee**  
**(Consent for Operation & Authorizations)**

**(Upto February 2009)**

Sl. No	Name & Address	Designation
1	Member Secretary, KS.P.C.B, Bangalore	Chairperson
2	Sri. M.D.N. Simha, Chief Environmental Officer, KS.P.C.B, Bangalore	Member
3	Sri. P.N. Sirsi, Senior Environmental Officer, K.S.P.C.B, Bangalore	Member
4	Sri. M.N. Jayaprakash, Senior Environmental Officer, K.S.P.C.B, Bangalore	Member
5	Sri. D.R. Kumara Swamy, Environmental Officer, K.S.P.C.B, Bangalore	Member
6	Smt. Viji Karthikeyan, Environmental Officer, K.S.P.C.B, Bangalore	Member Convener

**ANNEXURE- X-B-1**  
**State Level Consent Committee**  
**(Consent for Operation & Authorizations)**

**(From March 2009)**

Sl. No	Name & Address	Designation
1	Member Secretary, KS.P.C.B, Bangalore	Chairperson
2	Sri.Venugopal, Board Member	Member
3	Sri. M.D.N. Simha, Chief Environmental Officer, KS.P.C.B, Bangalore	Member
4	Sri.D.R.Kumara Swamy, SEO Environmental Officer, K.S.P.C.B, Bangalore	Member
5	Secretary, KASSIA	Member
6	Smt. Viji Karthikeyan, Environmental Officer, K.S.P.C.B, Bangalore	Member Convener



## ANNEXURE- X-C

### State Level Consent Committee (Consent for Establishment and Expansion for Non-EIA category projects) (From March 2009)

Sl. No	Name & Address	Designation
1	Chairman	Chairperson
2	Member Secretary, KS.P.C.B, Bangalore	Co-Chairperson
3	Sri.S.C.Chandru, Board Member	Member
4	Representative of FKCCI	Member
5	Sri.M.D.N.Simha, CEO	Member
6	Sri.M.N.Jayaprakash, SEO	Member
7	Secretary, KASSIA	Member
8	Sri.S.Madhusudhan, EO	Member Convener

## ANNEXURE - XI

### Public Hearings held under EIA Notification 2006.

SI No.	The Projects	District	Type of the Project	Hearing date
1.	M/s. Shree Kedarnath Sugar & Agro Products Ltd, (Distillery Unit)	Bagalkote	60 KLD Distillery and 18 MW Co-gen	02-05-2008
2.	M/s. Sree Renuka Sugars Ltd, Buralatti	Belgaum	Expansion of sugar plant from 5000 TCD to 10000 TCD. Cogeneration expansion from 38 MW to 58 MW and expansion of distillery from 120 KLPD to 300 KLPD	03-06-2008
3.	M/s.Kattageri Dollamite Mines of Mysore Minerals Ltd, Badami Tq.	Bagalkote	Dollamite mining	03-06-2008
4.	M/s. Neralakere Dollamite Mines of Mysore Minerals Ltd.	Bagalkote	Dollamite mining expansion	03-06-2008
5.	M/s.Nandhi Halli Iron Ore Mines of Bharat Mines & Minerals, Sandur Taluk	Bellary	Expansion of Iron Ore Mines	04-06-2008



6.	M/s. Subbarayanhalli Iron Ore Mines of Mysore Minerals Ltd, Sandur Tq	Bellary.	Iron Ore mining expansion	04-06-2008
7.	M/s. Tata Mines & Minerals, Sandur Taluk, Bellary District	Bellary	Iron Ore Mines	06-06-2008
8.	Sri.M.Mallikarjuna Babu Mines, Sandur Taluk,	Bellary	Iron ore mining	07-06-2008
9.	Lokapura (West), Lime Stone Mines of Mysore Minerals Ltd, Mudol Tq	Bagalkote	Lime Stone Mines	10-06-2008
10.	Chikkashellikeri Lime Stone Mines of Mysore Minerals Ltd,	Bagalkote	Expansion of Mines	10-06-2008
11.	M/s. Nadeem Minerals,	Bellary	Iron ore mining expansion	11-06-2008
12.	Sri, J.M. Vrushabhendraiah Mines, Sandur Taluk	Bellary	Manganeese ore mine	12-06-2008
13.	Kumaraswamy Range Mines of Smt. C.Vijayalakshmi, Sandur Tq,.	Bellary	Iron Ore Mines	12-06-2008
14.	M/s. Kumar Enterprises, Sandur Tq,	Bellary	Iron Ore Mines	18-06-2008
15.	M/s. Benaka Sponge Iron Pvt Ltd, Belagal Village,	Bellary	Expansion of sponge iron plant from 100 TPD to 200 TPD & 10 MW captive power plant	19-06-2008
16.	M/s.Kumaraswamy Betta Iron Ore & Manganeese Mine of M/s.Vir sponge and power limited, Sandur Tq	Bellary	Iron Ore and Managneese Mine	20-06-2008
17.	M/s. Vir Sponge & Power Ltd, Sandur Tq	Bellary	Iron Ore and Managneese Ore mining	26-06-2008
18.	M/s.Agarwal sponge & Energy Ltd, Bellary Tq	Bellary	Expansion of Sponge Iron Plant from 200 to 300 TPD & 12 MW cogeneration	27-06-2008
19.	M/s. KMMI Steel Pvt Ltd, Sandur Tq	Bellary.	Mini integrated steel plant 1,50,000 TPA, sponge iron unit 1,20,000 TPA and 25 MW cogen	28-06-2008
20.	M/s. Mysore Cements Ltd, Ammasandra, Mavinahalli, Gubbi Tq,	Tumkur	Lime stone mines expansion at ML No.2024	28-06-2008
21.	M/s. Mysore Cements Ltd, Yerekatte village, chikanayakanahalli Tq	Tumkur	Lime stone mines expansion at ML No.1654	28-06-2008





22.	M/s. Mysore Cements Ltd, Aamasandra Village, Turuvekere Tq	Tumkur	Kilkar production expansion from 4,00,000 TPA to 5,50,000 TPA & cement grinding from 4,00,000 TPA to 12,00,000 TPA	28-06-2008
23.	M/s.Jaisinghpura Iron Ore of Asha Mining Company, Sandur Tq	Bellary	Expansion of Iron Ore Mines	04-07-2008
24.	N.H.P.Iron Ore Mines of Sri N.Manzoor Ahmed Sandur Tq	Bellary	Expansion of Iron Ore Mines	04-07-2008
25.	M/s. Saravana Alloy Steels Pvt Ltd, Nelamangala Tq	Bangalore Rural	Steel melting plant and rolling mill	05-07-2008
26.	M/s. Airport Authority of India, mysore air port, Mysore	Mysore	Airport	05-07-2008
27.	M/s. Sree Renuka Sugars Ltd, Havalaga Village, Afzalpur Tq	Gulbarga	Expansion of sugarcane plant from 4000 TPD to 10,000 TPD cogen plant 6 MW to 31.5 MW and distillery 300 KLPD	08-07-2008
28.	M/s. Kalyani Steels Ltd, Sirigupa Tq	Bellary	Pig Iron Plant expansion from 60,000 TPA to 1,20,000 TPA	09-07-2008
29.	M/s. Muraripura Iron Ore Mines of Balaji Mines & Minerals, Sandur Tq,	Bellary	Expansion of Iron Ore Mining	10-07-2008
30.	M/s.Sigma solid Strips Pvt Ltd, Bellary Tq	Bellary	Expansion of Sponge Iron Plant from 125 TPA to 300 TPA & 5 MW captive power	11-07-2008
31.	M/s. Sree Renuka Sugars Ltd, Sindagi Tq	Bijapur	Sugar plant 10,00 TCD cogen 35 MW. & distillery 300 KLPD	18-07-2008
32.	M/s.Wondalli Gold project Company Ltd, Lingasugur Tq	Raichur	Gold Mine	19-07-2008
33.	M/s. Appenahalli Clay Mines of Mysore Minerals Ltd, Arisikere Tq,	Hassan	Expansion of clay mines	26-07-2008
34.	M/s. Nandhi Halli Clay Mines of Mysore Minerals Ltd, Arsikere Tq	Hassan	Raw clay, china clay and aluminous clay mining	26-07-2008



35.	M/s.Jamkhandi Sugars Ltd, Jamkhandi Tq,	Bagalkote	Distillery 60 KLPD	30-07-2008
36.	Sri.Allum Prashanth, Hosadurga Tq	Chitradurga	Iron Ore and Manganese Ore	31-07-2008
37.	M/s. Sri Jai santoshi Matha Mining Enterprises, Sandur Tq.	Bellary	Iron Ore Mines	05-08-2008
38.	M/s.Gundya Hydro Electric Project of Karnataka Power Corporation Ltd, Sakaleshpur Tq	Hassan	1x200 MW hydel power	06-08-2008
39.	M/s.Kammatheruvu Iron Ore Mines of Sri.K.N.Srinivasa, Sandur Tq,	Bellary	Iron Ore Mines	07-08-2008
40.	M/s. Jaisinghpur Iron Ore Mines of Ashwathnaryan Singh & Company, Sandur Tq	Bellary	Expansion of Iron Ore mines	08-08-2008
41.	M/s. Ravindra & Company Ltd,	Bidar	Expansion of distillery from 15 KLPD to 45 KLPD	08-08-2008
42.	M/s. Shreesha Enterprises Pvt Ltd, Iron, Manganese ore, Hollakere Tq	Chitradurga	Iron Ore & Manganese Mine	08-08-2008
43.	Sri P.Venkateshwara Rao, Sandur Tq.	Bellary	Iron Ore mining	12-08-2008
44.	Doregudda Mines of Sri.M.Chennakeshava reddy, iron & Manganese Ore.	Tumkur	Mining expansion	20-08-2008
45.	Sri.S.V.Basavaraju, Chitradurga taluk	Chitradurga	Iron Ore Mines	22-08-2008
46.	M/s. Chamundi Distilleries Pvt Ltd, T.N.Pura Tq	Mysore	Expansion of distillery from 27 KLPD to 220 KLPD	27-08-2008
47.	M/s. Kashmirthy shetty & Son, Hollakere Tq,	Chitradurga	Iron & Manganese Mines	29-08-2008
48.	M/s. Canara Minerals (P) Ltd,	Chitradurga	Iron & Manganese Mines	06-09-2008
49.	M/s. DBS Bauxite Mines of Dalchand Bahadur Singh, Belgaum Tq	Belgaum	Bauxite Ore Mines	10-09-2008
50.	M/s. Lakshmi Cement & Ceramics Industries Ltd, Lime Stone Mine, Hosadurga Tq.	Chitradurga	Lime Stone Mine	18-09-2008
51.	M/s. Shimoga Airport developers Pvt Ltd,	Shimoga	Airport	17-10-2008
52.	M/s. Gulbarga Airport developers Pvt Ltd,	Gulbarga	Airport	17-10-2008
53.	M/s. V.S.Lad & Sons, "Prashanth Niwas, Sandur Tq	Bellary	Iron Ore Mines	21-10-2008



54.	M/s. Star Metallics & Power Pvt Ltd, Power plant, Hospet Tq.	Bellary	Cogeneration plant of 32 MW in Ferroalloy Plant	22-10-2008
55.	M/s.Rukminirama Steel rollings Pvt Ltd, Integrated steel, Bommanahalli Tq.	Bellary	Pig Iron – 200000 TPA, Sponge Iron etc	22-10-2008
56.	M/s.Canara Minerals (P) Ltd, Hosadurga Tq.	Chitradurga	Iron & Manganese Ore Mines	23-10-2008
57.	M/s.Sesa Goa Ltd, Bheemasamudra, Holalakere Taluk	Chitradurga	Expansion of Iron Ore	25-10-2008
58.	M/s.Jupiter Aviation & Logistics Pvt Ltd, Hassan	Hassan	Airport	30-10-2008
59.	M/s. Ind Bharath Power (Karwar) Karwar Tq.	Uttara kannada	3x150 MW Thermal power	30-10-2008
60.	M/s. Karadikolla (Suresh) Iron Ore Mines of P.Balasubba settee & Son, Sandur Tq	Bellary.	Expansion of Iron Ore Mine	06-11-2008
61.	M/s.Siddapura Iron Ore Mines of Greenfield Mineral & Exports, Iron Ore, Sandur Tq	Bellary	Iron Ore Mines	06-11-2008
62.	M/s. Kartika Agro Industires Pvt Ltd, Badami Tq	Bagalkot	Distillery 65 KLPD	06-11-2008
63.	M/s. Sri. Pramodh Tulsi sadan, Sandur Tq	Bellary	Iron Ore Mines	07-11-2008
64.	M/s. Sri. Harish Tulsi sadan, Sandur Tq	Bellary	Iron Ore Mines	07-11-2008
65.	M/s. Shivavillas Trust Iron Ore Mines, Sandur Tq,	Bellary	Iron Ore Mines	07-11-2008
66.	M/s. S.M.Block Iron Ore Mines of M.Hanumantha Rao, Mines, Sandur tq	Bellary	Iron Ore Mines	11-11-2008
67.	M/s. Embitee Iron & steel Pvt Ltd, Bellary Tq.	Bellary	Sponge Iron Plant 200 TPD Sponge Iron plant expansion	11-11-2008
68.	M/s. Chambal Fertilizers & Chemicals Ltd, Gulbarga Tq.	Gulbarga	Cement Plant 3.23 MTPA & 50 MW power plant	19-11-2008
69.	M/s. Shamanur Sugars Ltd, Harappanahalli Tq	Davangere	Distillery 60 KLPD	26-11-2008
70.	M/s. Mangalore Gold Mines of The Hutti Gold Mines Company Ltd, Showrapur Taluk.	Gulbarga	Gold Mining	10-12-2008
71.	M/s. Arveechem Pharma Pvt Ltd, Nanjangud Tq,	Mysore.	Bulk drug plant	11-12-2008



72.	M/s. Rajapura Iron Ore Mines of Raj Minerals, Hosadurga Tq,	Chitradurga	Iron & Manganese Ore Mining	26-12-2008
73.	Sri. K.T.Gadilingana Gowda, Sandur taluk,	Bellary	Quartz Ore Mining	27-12-2008
74.	M/s. Jayalaxmi Minerals Pvt Ltd, Sandur taluk,	Bellary	Iron Ore beneficiation plant 1.2 MTPA	27-12-2008
75.	M/s. Donimalai Iron Ore Mines of National Mineral Developers Corporation Ltd, Sandur Taluk	Bellary	Iron Ore Mine	27-12-2008
76.	M/s. Kasavanahalli Iron Ore Mines of Karnataka Mining Company Pvt Ltd, Hollakere Tq	Chitradurga	Iron Ore mine	29-12-2008
77.	M/s.Jiganihalli Manganese Mine of Gadigi Mineral Mining Company, Sandur Tq	Bellary	Expansion of Manganese Ore mining	30-12-2008
78.	M/s. Doddabavar nanjinzha Mining & Metallurgy Pvt Ltd, Hunagund Tq,	Bagalkote	Iron Ore beneficiation plant of 2 MTPA capacity	06-01-2009
79.	Karnataka Neeravari Nigam, GRBCC, Koujalagi,	Belgaum	Irrigation and drinking water supply project	16-01-2009
80.	M/s. Kudremukh Iron Ore Company Ltd, Chikanayakanahalli,	Tumkur	Iron Ore Mines	20-01-2009
81.	M/s. Sagar Cements Ltd, Chincholi Tq	Gulbarga	5.5MTPA cement plant, lime stone mine and 60 MW power	28-01-2009
82.	M/s. The Godavari Sugar mills Ltd, sammer Wadi	Bagalkot	Expansion of sugar plant from 7500 TCD to 15000 TCD, cogeneration 24 MW to 64 MW and sugar refining units 800 TCD	04-02-2009
83.	The Director of Ports & Inland water transport, Baithkol, Anokola Tq	Uttara Kannada	Basic infrastructure facility at Bilikere port	13-02-2009
84.	Sri. N. Rajashekar, Magnesite Mines Nanjangud Tq, ML No.1116	Mysore	Manganese & Dunite Ore Mine	20-02-2009
85.	M/s. Kudremukh Iron Ore Company, Panambur .	Dakshina Kannada	Ductile Iron Sponge Pipes	25-02-2009



86.	M/s.Indian Sugars Manufacturing Co.Ltd, Indi Tq	Bijapur	Distillery 60 KLPD cogen 19.5 MW	12-03-2009
87.	M/s.Murali Industries Ltd, Chitapur Tq	Gulbarga	Cement Plant 3 MTPA, Lime Stone Mining and 50 MW capative power	18-03-2009
88.	Leferge India, Chitapur Tq	Gulbarga	Cement Plant 3 MTPA, Lime Stone Mining and 43MW captive power	25-03-2009
89.	Karnataka Power Corporation Ltd, Putur Tq.	Dakshina Kannada	Hydel Power Plant 200 MW	25-03-2009

## ANNEXURE- XII

### Details of samples analyzed during the year 2008-2009:

#### i) Central Environmental Laboratory, Bangalore:

Type of Sample	Number of Samples Analyzed
(i) Water Samples (other than Lake/Tank, River & Ground water samples).	
(a) Legal Samples.	2
(b) Ordinary Samples.	425
(a) Legal Samples.	52
(b) Ordinary Samples.	1398
(iii) River Water Samples.	47
(a) Ambient Air Samples.	12759
- Legal Samples.	6
- Ordinary Samples.	14
(v) Bacteriological Samples.	
(vi) Bio-Assay	
(a) Legal Samples	1
(b) Ordinary Samples	91
(vii) Noise Monitoring	
(viii) Groundwater Samples.	214
(ix) Hazardous Waste/Soil/Sludge/Water Samples	
(a) Legal Samples	1
(b) Ordinary Samples	1102
(c) Pesticides Samples	39
(xi) Bio – Medical Waste Samples.	22
(xii) Lake/Tank water Samples.	929
<b>Total</b>	<b>17101</b>



## ii) Regional Environmental Laboratory, Mysore:

Type of Sample	Number of Samples Analyzed
(i) Water Samples (other than Lake/Tank, River & Ground water samples).	
(a) Legal Samples.	0
(b) Ordinary Samples.	49
(ii) Wastewater Samples/Effluent Samples.	
(a) Legal Samples.	41
(b) Ordinary Samples.	727
(iii) River Water Samples.	320
(iv) Air Samples.	
(a) Ambient Air Samples.	7741
(b) Stack Samples.	0
- Legal Samples.	1
- Ordinary Samples.	56
(v) Bacteriological Samples.	544
(vi) Bio-Assay	26
(vii) Solid Waste Samples	-
(viii) Noise monitoring	10
(ix) Groundwater Samples.	534
(x) Hazardous Waste/Soil/Sludge Samples	103
(xi) Bio – Medical Waste Samples.	-
(xii) Lake/Tank water Samples.	219
<b>Total</b>	<b>10371</b>

## iii) Regional Environmental Laboratory, Davanagere:

Type of Sample	Number of Samples Analyzed
(i) Water Samples (other than Lake/Tank, River & Ground water samples).	
(a) Legal Samples.	2
(b) Ordinary Samples.	1013
(ii) Wastewater Samples/Effluent Samples.	
(a) Legal Samples.	6
(b) Ordinary Samples.	524
(iii) River Water Samples.	-
(iv) Air samples	
(a) Ambient Air Samples.	1967
(b) Stack samples	



- Legal Samples.	2
- Ordinary Samples.	76
(v) Bacteriological Samples.	139
(vi) Bio-Assay	32
(vii) Solid waste samples	-
(viii) Noise Monitoring	-
(ix) Groundwater Samples.	
(x) Hazardous Waste samples/soil samples	126
(xi) Bio – Medical Waste Samples.	-
(xii) Lake/Tank water Samples.	-
<b>Total</b>	<b>3887</b>

#### iv) Regional Environmental Laboratory, Dharwad:

Type of Sample	Number of Samples Analyzed
(i) Water Samples (other than Lake/Tank, River & Ground water samples).	
(a) Legal Samples.	-
(b) Ordinary Samples.	762
(ii) Wastewater Samples/Effluent Samples.	
(a) Legal Samples.	22
(b) Ordinary Samples.	322
(iii) River Water Samples.	-
(iv) Air samples	
(a) Ambient Air Samples.	4639
(b) Stack samples	
- Legal Samples.	01
- Ordinary Samples.	29
(v) Bacteriological Samples.	-
(vi) Bio-Assay	4
(vii) Solid waste samples	
(viii) Noise Monitoring	
(ix) Groundwater Samples.	
(x) Hazardous Waste samples/soil samples	111
(xi) Bio – Medical Waste Samples.	-
(xii) Lake/Tank water Samples.	-
<b>Total</b>	<b>5890</b>



#### v) Regional Environmental Laboratory, Raichur:

Type of Sample	Number of Samples Analyzed
(i) Water samples (other than Lake/Tank samples)	
(a) Legal Samples	-
(b) Ordinary Samples	137
(ii) Wastewater Samples/Effluent samples	
(a) Legal Samples	-
(b) Ordinary Samples	191
(iii) River Water Samples	168
(iv) Air Samples	
(a) Ambient Air Samples	621
(b) Stack Samples	
- Legal samples	-
- Ordinary samples	25
(v) Bacteriological Samples	154
(vi) Bio-Assay	-
(vii) Solid Waste Samples	90
(viii) Noise Monitoring	-
(ix) Ground water samples	68
(x) Hazardous Waste Samples	-
(xi) Bio-Medical Waste Samples	-
(xii) Lake/Tank water samples	52
<b>Total</b>	<b>1506</b>

#### vi) Regional Environmental Laboratory, Mangalore:

Type of samples	Number of Samples Analyzed
(i) Water samples (other than Lake/Tank samples)	
(a) Legal Samples	-
(b) Ordinary Samples	281
(ii) Wastewater Samples/Effluent samples	
(a) Legal Samples	8
(b) Ordinary Samples	290
(iii) River Water Samples	32
(iv) Air Samples	
(a) Ambient Air Samples	2050
(b) Stack Samples	
- Legal samples	-





- Ordinary samples	34
(v) Bacteriological Samples	59
(vi) Bio-Assay	57
(vii) Solid Waste Samples	32
(viii) Noise Monitoring	5
(ix) Ground water samples	170
(x) Hazardous Waste Samples	-
(xi) Bio-Medical Waste Samples	-
(xii) Lake/Tank water samples	12
<b>Total</b>	<b>3030</b>

#### vii) Regional Environmental Laboratory, Gulbarga:

Type of Samples	Number of Samples Analyzed
(i) Water samples (other than lake/Tank samples).	
(a) Legal Samples.	-
(b) Ordinary Samples.	-
(ii) Waste water Samples/Effluent samples.	
(a) Legal Samples.	-
(b) Ordinary Samples.	90
(iii) River Water Samples.	65
(iv) Air Samples.	
(a) Ambient Air Samples.	123
(b) Stack Samples	-
- Legal Samples	
213	
- Ordinary Samples	
(v) NAMP Samples (SO <sub>2</sub> , NO <sub>x</sub> , RSPN & SPM)	1800
(vi) Bio-Assay.	-
(vii) Solid waste samples	-
(viii) Noise Monitoring	4
(ix) Ground Water Samples	108
(x) Hazardous Waste Samples.	-
(xi) Bio-Medical Waste Samples	-
(xii) Lake/Tank Water Samples	24
<b>Total</b>	<b>2430</b>

\* During Deepawali festival 5 hrs monitoring for 4 days (5.00PM to 11.00PM)



### viii) Regional Environmental Laboratory, Hassan:

Type of Samples	Number of Samples Analyzed
(i) Water samples (other than lake/Tank samples).	
(a) Legal Samples.	-
(b) Ordinary Samples.	36
(ii) Waste water Samples/Effluent samples.	
(a) Legal Samples.	1
(b) Ordinary Samples.	207
(iii) River Water Samples.	79
(iv) Air Samples.	
(a) Ambient Air Samples.	2071
(b) Stack Samples	
- Legal Samples	1
- Ordinary Samples	12
(v) Bacteriological Samples	45
(vi) Bio-Assay.	-
(vii) Solid waste samples (soil)	28
(viii) Noise Monitoring	1
(ix) Ground Water Samples	87
(x) Hazardous Waste Samples.	-
(xi) Bio-Medical Waste Samples	-
(xii) Lake/Tank Water Samples	156
<b>Total</b>	<b>2724</b>

### ix) Regional Laboratory, Belgaum:

Type of Samples	Number of Samples Analyzed
(i) Water samples (other than lake/Tank samples).	
(a) Legal Samples.	-
(b) Ordinary Samples.	12
(ii) Waste water Samples/Effluent samples.	
(a) Legal Samples.	49
(b) Ordinary Samples.	242
(iii) River Water Samples.	126
(iv) Air Samples.	
(a) Ambient Air Samples.	1896
(b) Stack Samples	-
- Legal Samples	3



- Ordinary Samples	2
(v) Bacteriological Samples	102
(vi) Bio-Assay.	1
(vii) Solid waste samples	-
(viii) Noise Monitoring	4
(ix) Ground Water Samples	123
(x) Hazardous Waste Samples.	-
(xi) Bio-Medical Waste Samples	-
(xii) Lake/Tank Water Samples	60
<b>Total</b>	<b>2620</b>



**ANNEXURE XIII- A**  
**Classification of river water quality under GEMS programme for 2008-2009**

Sl. No.	Monitoring Station	River	Apr 2008	May 2008	Jun 2008	July 2008	Aug 2008	Sept 2008	Oct 2008	Nov 2008	Dec 2008	Jan 2009	Feb 2009	Mar 2009
1	At Ullanur Bridge	Tungabhadra	C	C	C	C	C	C	C	C	C	C	C	C
2	At Balamuri Kshetra	Cauvery	C	B	B	B	B	C	C	C	A	C	A	C
3	At Satyagala Bridge	Cauvery	C	C	C	C	C	C	C	C	C	C	C	C
4	At Honnali Bridge	Tungabhadra	B	B	B	B	B	B	B	B	B	B	B	C
5	At Causeway Suttur (Monitoring Quarterly)	Kabini	C	-	-	C	-	C	C	-	-	C	-	-



**ANNEXURE XIII- B**  
**Classification of river water quality under MINARS programme for 2008-2009**

Sl. No.	Monitoring Station	River	Apr 2008	May 2008	Jun 2008	July 2008	Aug 2008	Sept 2008	Oct 2008	Nov 2008	Dec 2008	Jan 2009	Feb 2009	Mar 2009
1	At Tintini Bridge	Krishna	B	B	C	C	C	C	B	B	A	B	B	B
2	At Haralahalli Bridge	Tungabhadra	A	B	B	B	B	A	B	B	B	B	B	C
3	D/S of KIOCL, Malleshwara	Bhadra	C	C	C	C	C	C	C	C	C	C	C	C
4	W.A. Point to Gokak Town (Monitoring Quarterly)	Ghataprabha	C	-	-	B	-	-	C	-	-	C	-	-
5	W.A. Point to Hubli-Dharwad (Monitoring Quarterly)	Malaprabha	C	-	-	A	-	-	C	-	-	B	-	-
6	D/s of Kanakapura Town (Monitoring Quarterly)	Arkavathi	C	-	-	C	-	-	C	-	-	C	-	-
7	D/s of Halagur Bridge (Monitoring Quarterly)	Shimsha	C	-	-	C	-	-	C	-	-	C	-	-
8	D/s of Bridge at Yadgiri	Bhima	C	C	C	C	C	C	C	B	C	C	C	B
9	D/s of Shimoga Town	Tunga	B	B	B	B	B	B	B	B	B	B	B	C
10	Near Holehonnur	Bhadra	B	B	B	B	B	B	B	B	C	C	B	C
11	D/s of Devasugur Bridge	Krishna	C	C	C	C	C	C	C	C	C	B	C	B
12	D/s of road bridge at	Cauvery	C	C	C	C	C	C	C	C	C	C	C	C
13	D/s of Narayanapura Dam Srirangapatna	Krishna	B	B	A	C	B	C	B	B	B	A	B	B
14	D/s of Ugarkhurd Barrage	Krishna	C	B	C	C	C	C	C	C	C	C	C	C
15	D/s of Road bridge Gangapur village	Bhima	C	C	C	C	C	C	C	C	C	C	C	C
16	At Ferozabad	Bhima	B	C	C	C	C	C	C	C	C	C	C	C
17	D/s of Mudhol Road Cross Bridge (Monitoring Quarterly)	Ghataprabha	C	-	-	A	-	-	C	-	-	C	-	-
18	D/s of Aihole Town (Monitoring Quarterly)	Malaprabha	C	-	-	C	-	-	C	-	-	C	-	-





35	Manjira at D/S in intake point to Bidar City	Manjira	C	C	C	C	B	C	C	B	C	C	B	B	B
36	Netravathi U/S of Dharma Sthala at Water supply intake point (Monitoring quarterly)	Netravathi	B	-	-	B	B	-	-	B	-	-	B	-	-
37	Yagachi River Near pumping stations Hassan City (Monitoring quarterly)	Yagachi	B	-	-	C	C	-	-	C	-	-	C	-	-
38	U/S Uppinangady Town before confluence with river Nethravathi (Monitoring quarterly)	Kumara Dhara	B	-	-	B	B	-	-	C	-	-	C	-	-
39	Kagina D/S of sewage disposal point (Monitoring Quarterly)	Kagina	C	-	-	-	-	-	-	-	-	-	C	-	-
40	Confluence point of Tunga and Bhadra at Kudli (Monitoring quarterly)	Tunga-Bhadra	B	-	-	B	B	-	-	B	-	-	C	-	-

Note \* - Samples were not collected due to non-flow.



## ANNEXURE XIII- C

## Classification of river water quality under Board programme for the year 2008-09

Sl. No.	Monitoring Station	River	Apr 2008	May 2008	Jun 2008	July 2008	Aug 2008	Sept 2008	Oct 2008	Nov 2008	Dec 2008	Jan 2009	Feb 2009	Mar 2009
1	Asangi Village	Asangi nalla	C	C	C	A	B	C	B	C	B	C	B	B
2	U/S of MPM	Bhadra	A	B	B	B	B	A	B	B	B	A	B	C
3	U/S of KIOCL	Bhadra	C	C	C	C	B	C	C	C	C	C	C	C
4	At Bannur bridge	Cauvery	C	C	C	C	C	C	C	C	C	C	C	C
5	At Ranganathittu	Cauvery	C	C	C	C	C	C	C	C	C	C	C	C
6	At Bathing Ghat, Nanjanagud	Kabini	C	C	C	C	C	C	C	C	C	C	C	C
7	U/S of WCPM, Dandeli (Monitoring Quarterly)	Kali	C	-	-	C	-	-	B	-	-	B	-	-
8	D/s of Alamatti Dam	Krishna	A	B	C	C	C	C	B	B	B	B	B	A
9	At Shahabad bridge	Kagina	C	C	C	C	C	C	C	C	C	C	C	C
10	D/S of Kattemalavadi (Monitoring quarterly)	Lakshman tirtha	C	-	-	B	-	-	C	-	-	C	-	-
11	At Badami bridge (Monitoring quarterly)	Malaprabha	C	-	-	C	-	-	C	-	-	C	-	-
12	At new bridge	Tungabhadra	A	B	B	B	B	B	B	B	B	B	B	C
13	U/S of HPF	Tungabhadra	B	B	B	B	B	B	B	B	B	B	B	C
14	D/S of HPF	Tungabhadra	C	C	C	B	B	B	C	C	C	C	C	C
15	At jack well point	Tungabhadra	B	B	B	B	B	B	B	B	C	B	C	C
16	At Harihar water supply intake	Tungabhadra	B	B	B	B	B	B	B	B	B	B	C	C
17	D/S of Gangawathi	Tungabhadra	C	C	C	C	C	C	C	C	C	C	C	C
18	T.G. Halli Reservoir	Arkavathi	C	A	C	C	C	C	C	B	A	A	C	B
19	Hesaraghatta Reservoir	Arkavathi	-	-	-	-	-	C	C	B	A	C	C	C

**Note:** Class "A" – Drinking water source without conventional treatment but after disinfections.

Class "B" – Out door bathing (organized)

Class "C" – Drinking water source

Class "D" – Propagation of wild life, fisheries

Class "E" – Irrigation, Industrial, Cooling, Controlled Waste.





## ANNEXURE - XIV

### GENERAL GUIDELINES FOR SITING OF INDUSTRIES

To ensure compliance to the environmental standards siting policy of the Board for the Red category and for Orange and Green category has been drawn. The siting guidelines for Red category industry are as follows:

No new industry specified below shall be permitted to be established within 1.5 Km from the embankment of the streams, rivers and dams as indicated below. If any of these water bodies are the source of drinking water, then such distance shall be stipulated which will not affect such waters by discharge of the pollutants.

#### List of industries covered under the siting guidelines:

- (a) Distilleries
- (b) Tanneries, Sugar, Dairies
- (c) Fertilizer
- (d) Pulp & Paper (Large)
- (e) Chemical Units (Large & Medium Scale)
- (f) Petroleum Refinery
- (g) Textile Dyeing units (Large & Medium Scale)
- (h) Steel Plant (Electroplating, Heat Treatment, etc.,)
- (i) Ceramics (Large & Medium Scale)
- (j) Thermal Power Station
- (k) Basic Drug Manufacturing Units
- (l) Pesticide (Large & Medium Scale)
- (m) Asbestos
- (n) Foundries (Large & Medium Scale)
- (o) Large Cement Plant (Having 200 T/D or more production capacity)
- (p) Primary Metallurgical Industries
- (q) Hydro Cyanic Acid and Derivatives
- (r) Petroleum Products
- (s) Viscose Staple Fiber and Filament Yarn (Large)
- (t) Caustic Soda, Chlorine, Phosphoric Acid, Hydrochloric Acid, Sulphuric Acid, units
- (u) Dye & Dye Intermediates
- (v) Storage Batteries with oxides of lead and antimony units

#### List of waterbodies:

- (a) Cauvery
- (b) Kabini



- (c) Arkavathy
- (d) Shimsha
- (e) Pennar
- (f) Hemavathy
- (g) Lakshman Thirtha
- (h) Gundal river
- (i) Lokapavani
- (j) Palar
- (k) Thunga
- (l) Bhadra
- (m) Thungabhadra
- (n) Krishna
- (o) Bheema
- (p) Varada
- (q) Ghataprabha
- (r) Malaprabha
- (s) Vedavathi
- (t) Karanja
- (u) Hagari
- (v) All west flowing streams/rivers\*
- (w) All other streams/rivers carrying water either seasonally or throughout the year\*
- (x) All major Dams, drinking water source (surface)
- (y) All major irrigation canals.

\* This is subject to the usefulness of such streams and rivers for supply of drinking water facility.

- o No new Large/Medium/Small (Red & Orange Category) industry generating effluents, and or emissions shall be permitted within city/municipal limits and residential areas.
- o The Karnataka Industrial Area Development Board (KIADB) or any other agency developing industrial area shall obtain Environmental clearance from the Department of Ecology and Environment and clearance from the Karnataka State Pollution Control Board before establishing such area. Environmental Impact Assessment (EIA) and Environmental Management Plan (EMP) reports shall be submitted to the Karnataka State Pollution Control Board and obtain approval.
- o Distance for establishing new industries specified in certain special category area shall be follows:



(A) **Ecologically and/or otherwise sensitive areas:**

At least 25 Kms depending on the geo-climatic conditions, the requisite distance shall have to be increased by the appropriate agency.

(B) **Coastal areas:**

At least ½ km. from high tide line. The stipulations made vide Notification No.SO 114(E) dated 19.2.1991, by Government of India, Ministry of Environment and Forests, issued under the Environment (Protection) Rules, 1986, shall be strictly adhered to.

(C) **Transport/ communication system:**

At least ½ km. from National & State Highways and Railway.

(D) **Major settlements (3,00,000 population):**

Appropriate distance for establishment of major industries around the cities having more than 3,00,000 population shall be prescribed by Karnataka State Pollution Control Board. Wherever these distance cannot be maintained and at the same time it is inevitable to locate the industry, measures for prevention of pollution due to effluents, noise emissions, odour etc., shall be insisted by the Board.

**Note:** Ecological and/or otherwise sensitive areas include-

- (i) Religious and Historic Places
- (ii) Archaeological Monuments
- (iii) Scenic Areas
- (iv) Hill Resorts
- (v) Beach Resorts
- (vi) Health Resorts
- (vii) Coastal Areas rich in Mangroves, Breeding Grounds of Specific Species
- (viii) Estuaries rich in Mangroves, Breeding Grounds of Specific Species
- (ix) Biosphere Reserves
- (x) National Parks and Sanctuaries
- (xi) Natural Lakes, Swamps
- (xii) Seismic Zones
- (xiii) Tribal Settlements
- (xiv) Areas of Scientific and Geological Interest
- (xv) Defense Installations, specially those of security importance and sensitive to pollution and
- (xvi) Air Ports



2. No forest land shall be converted into non-forest activity for the sustenance of the industry.
3. Land acquired shall be sufficiently large to provide for appropriate treatment of waste water still left for treatment after maximum possible reuse and recycle. Reclaimed (treated waste water shall be used to raise green belt and to create water body for aesthetics, recreation and if possible for aquaculture. The green belt shall be sufficiently wide around the boundary limit of the industry. For industry having odour problem, it shall be minimum of 30 meters wide.
4. Enough space should be provided for storage of solid waste, so that the same could be available for possible reuse.

## **5.2 SITING GUIDELINES FOR ORANGE AND GREEN CATEGORY**

1. Siting guidelines for green category industries would be minimal.
2. No new orange category industry generating effluent and/or emission shall be permitted within City/Municipal limits.
3. No orange category industry having effluent discharge shall be established within 500m from the riverbanks/reservoirs/major tanks.
4. No orange category industry shall be established with 75m of National and State Highways, 50m of Main District Roads, 17.5 m of Other Districts Roads and 15m of Village Roads.
5. No orange category industry shall be established within 12 Km from the notified archeological monuments.
6. No orange category industry shall be established within declared biosphere reserves and eco sensitive zones.
7. No orange category industry shall be established within 10 Kms of the boundaries of National Park and Sanctuaries and wildlife corridors.
8. The industries proposed in the coastal areas shall be governed by the Coastal Regulation Zone Rules issued by Ministry of Environment and Forests, Government of India, from time to time.
9. Licenses for both orange and green category industries shall be issued by the Municipalities/Municipal Corporations after the industry obtains consent of Establishment (CFE) from Karnataka State Pollution Control Board.



## ANNEXURE - XV

### Personal hearing held during 2008-2009

Sl. No.	Name and address of the Industry	Date of Personal Hearing
1.	Sri Venkateshwara Sponge Iron & Power Private Ltd, Halkundi Village, Bellary Dist-	17-04-2008
2.	Hothur Steels, Halkundi Village, Bellary Dist	17-04-2008
3.	Ranganeni Steels Private Ltd-, Hulkundi Village, Bellary Dist,	17-04-2008
4.	Sigma Solid Strips, Halkundi Village, Bellary Dist-,	17-04-2008
5.	Balaji Swami Premium Steels Private Ltd-, Bellary Dist-,	17-04-2008
6.	Bellary Ispat Private Ltd-, Halkundi Village	17-04-2008
7.	Banashankari Steels and Alloys Private Ltd-, Bellary dist	17-04-2008
8.	Popuri Steels Private Ltd-, Halkundi	17-04-2008
9.	Supra Steels and Power (P) Ltd-, Bellary	17-04-2008
10.	Doregudda Manganese Mines, M-L-No- 1266, Gubbi Taluk, Tumkur Dist-,	22-04-2008
11.	Bhagya Nagar Solvent Extraction (P) Ltd-, Raichgur Taluk and Dist	24-04-2008
12.	BPL Soft, Maddur, Mandya District	29-04-2008
13.	Raikar Minerals, Mining and processing industries, Badami Taluk, Bagalkote district	03-05-2008
14.	Suvarna industries, Hassan	03-05-2008
15.	Granlo Matric Aggregates, Bangalore	03-05-2008
16.	S.K.S Stone Crusher, Chamarajanagar	03-05-2008
17.	Netra Stone Crusher, Unit-2 Bangalore	03-05-2008
18.	Jai Bharath Crystals stone crusher, Bangalore	03-05-2008
19.	Ujala Stone Crusher, Bidar	03-05-2008
20.	Karnataka Private Medical Establishment association, Bijapur	24-05-2008
21.	Swamimali Iron Ore Mine, Bellary	30-05-2008
22.	Ubbalgundi iron Ore Mines, Bellary	30-05-2008
23.	Bhadra packaids , Bhadravathi	10-06-2008
24.	Mukund Ltd and M/s.- Kalyani Steels, Koppal	10-06-2008
25.	Alok Kumar Co-Ltd, C-B-Kere, Chitradurga District	05-07-2008
26.	Himatsingka Linens, Hanumantapura Hassan	08-07-2008
27.	KIOCL, Blast furnace unit, Panambur Mangalore	08-07-2008
28.	Twenty first century wire rods, Tumkur	26-07-2008



29.	M/s. Mahalakshmi Iron Ore Mines, Gollarahalli Village, Tmkur District	26-07-2008
30.	M/s.Karanja Industries Pvt Limited, (kraft paper division) Sindabandagi village, Humnabad Taluk, Bidar District	26-07-2008
31.	Canara Lighting Industries Limited, punaroor, Mangalore	13-08-2008
32.	Go Go international Pvt Limited, Holenarasipura Hassan district	13-08-2008
33.	Pooja Metals, Industrial Estate, Hubli	06-09-2008
34.	New Mangalore Port Trust, Panambur Mangalore	26-09-2008
35.	Krishna Milk Pvt Limited, Kirwatti, Yellapur Taluk, Karwar	26-09-2008
36.	Habib Agro Industries, Mandya District	26-09-2008
37.	Kamalabai Iron Ore Mines, C-N-Halli, Tumkur District	26-09-2008
38.	A-P-Elyas Stone Crusher Mandya,	26-09-2008
39.	Balaji Stone Crusher Kolar District,	26-09-2008
40.	Highway Granites, Kolar,	26-09-2008
41.	Jyothi Stone Crusher, Bidar District	26-09-2008
42.	Vishveshwari Iron and steel (VISL), Bhadravathi	14-10-2008
43.	Vijay Technicrat Private Ltd-, Machenahalli, Shimoga	14-10-2008
44.	Karnataka Limpo Cement Industry, Tumkur District	25-10-2008
45.	Hassan Dairy, Hassan	30-10-2008
46.	Mandya Dist Co-operative Milk Producers Societies Union Ltd-, Gejjalagere, Mandya Dist—,	30-10-2008 30-10-2008
47.	Ashok Inn Works, Plant –I, Plant –II & Plant –III	25-11-2008
48.	Yeshwanthpur Railway Station,	25-11-2008
49.	Bannihatti Railway Station,	25-11-2008
50.	Thorangal Railway Station,	25-11-2008
51.	Swamymalai Railway Station,	25-11-2008
52.	Bellary Contonment Railway Sation,	25-11-2008
53.	Ranjit Railway Station	25-11-2008
54.	Hagari Railway Sation	25-11-2008
55.	Vishveshwari Iron and steel (VISL), Bhadravathi	26-11-2008
56.	Ultratech Cement Ltd-, Koppal Dist	27-11-2008
57.	Riddhi Siddhi Gluco Boils Ltd-, Belgaum	17-01-2009
58.	Chamundi Textiles (Silk Mills) Ltd-, Mysore	19-01-2009
59.	Central Food Technology Research Institute, Mysore	19-01-2009
60.	Padmini Aromatics (P) Ltd-, Nanjangud	19-01-2009
61.	South India Paper Mills, Nanjangud	19-01-2009
62.	Dharwad Milk Union, Dharwad	21-01-2009
63.	Dempo Dairy Ltd-, Bagalkot Dist-,	28-02-2009
64.	Thangavelu & others, D-B-Kere village, Chirtradurga dist	7-02-2009



65.	Karnataka Strips Private Ltd-, Mundargi, Bellary	10-02-2009
66.	Adani Enterprises,	
67.	Mallikarjuna Shipping	21-02-2009
68.	Salgaocar Mining Industries, Karwar	21-02-2009
69.	Hothur Steels (Sponge Iron Plant), Bellary Dist-,	21-02-2009
70.	Habeebulla Mine, Bellary dist	21-02-2009
71.	NMPT, Mangalore	11-03-2009
72.	Karwar Port	16-03-2009
73.	Krishna Milk (P) Ltd-, Karwar	25-03-2009
74.	Karnataka Co-operative Textile Processing Ltd-, Belgaum	25-03-2009
75.	Clinigene International Pvt Ltd, Bommasandra, Bangalore	04-04-2008
76.	Pall India Pvt Ltd, Bangalore	04-04-2008
77.	Kumar Organic Products Pvt Ltd, Harapanahalli, Bangalore	05-04-2008 & 27-05-2008
78.	Rabitex Exports Pvt Ltd, Kudlu Gate, Bangalore	15-04-2008
79.	Freshtex Bangalore Pvt Ltd, Bangalore	15-04-2008
80.	VVNL, Bangalore	29-04-2008
81.	Lakshmi Industrial Forge & Engineering Pvt Ltd, Hoskote, Bangalore	30-04-2008
82.	ISRO satellite Centre, Bangalore	09-05-2008
83.	Sun & Swahili Pvt Ltd, Bangalore	03-05-2008
84.	Apten Forges Pvt Ltd, No-4a, Bangalore	03-05-2008
85.	Bio-vel Life Science Pvt Ltd, Bangalore	03-06-2008
86.	Avesthagen Technologies Pvt Ltd, (Discovery) Bangalore	03-06-2008
87.	Avesthagen Technologies Pvt Ltd, (Innovators) Bangalore	03-06-2008
88.	Avesthagen Technologies Pvt Ltd, (Creators) Bangalore	03-06-2008
89.	Institutes of Bio- informatics Unit-1, Whitefield, Bangalore	03-06-2008
90.	LM glass Fibers Pvt Ltd, Plot No-61 & 62, & Plot No-85, Bangalore	11-06-2008
91.	INA India Ltd, KIADB Indl Area, Bangalore,	11-06-2008
92.	Bill Forge (P) Ltd, 9C, Bommasandra Indl Area, Bangalore	11-06-2008
93.	Industries located at Apparel Park, Doddaballapura Tq, Bangalore	08-07-2008
94.	Sudhamayi Quality Foods (P)Ltd, KIADB Indl Area, Doddaballapura , Bangalore	08-07-2008
95.	Dynamatic Technologies Ltd, No-11, II Phase, Peenya Indl Area, Bangalore	04-09-2008
96.	M/s.- Bosch Ltd, (Formerly Mico Ltd,)dugodi, Hosur Road, Bangalore	04-09-2008



97.	BWSSB K & C Valley STPs Located at Chellaghatta Village, Bangalore	06-09-2008
98.	Kirloskar Batteries , Yeshwanthapura Bangalore	30-10-2008
99.	Color International, No-224-1681, Kalyananagara Post Bangalore	30-10-2008
100.	Duckworth Flavours (India)Ltd,	30-10-2008
101.	Maruthi Ilumeno, No-26, (C-1), KIADB Indl area, Malur Tq, Kolar	30-10-2008
102.	Welcast Steels Ltd-, No-15, Ist Phase, Peenya Indl Area, Bangalore v	30-10-2008
103.	NSP electronics Ltd, Sy No- 52-1, Virgonagar\, Bangalore	30-10-2008
104.	Taegutec India Pvt Ltd, plot No-119 & 120, 4 <sup>th</sup> phase, Bangalore	30-10-2008
105.	BWSSB (v valley Sewage Treatment Plant) Nayandahalli, Mysore Road, Bangalore	16-11-2008
106.	Rail Wheel factory, Yelahanka Bangalore	16-11-2008 & 16-01-2009
107.	Viwa Eco Club CETP, Veerasandra Indla Area Bangalore	16-11-2008
108.	Schunk Metal & Carbon (I) Pvt Ltd, No-54, Whitefield Road, Bangalore	16-11-2008
109.	Grindwell Norton Ltd, Sy No- 110, Devanahalli Road, Bangalore	16-11-2008
110.	Vijai Motors (P) Ltd-, No-2-A, Dyavasandra Indl Area, KR Puram, whitefield Road, Bangalore	16-11-2008
111.	Cuthbetha Textiles India Pvt Ltd, No-23, KIADB Indl Area, Bangalore	16-11-2008
112.	Hindustan Unilever Ltd, Bangalore	16-11-2008
113.	Unilever Industries (P) Ltd, Bangalore	16-11-2008
114.	Amphenal Interconnect India Pvt Ltd, Bangalore	30-10-2008
115.	Applicomp India Pvt Ltd, Bangalore	30-10-2008
116.	HAL Units,	21-11-2008
117.	Federal Mogul Pvt Ltd, Yelahanka, Bangalore	16-01-2009
118.	Shyam Ahija, Kolar	16-01-2009
119.	Mysore Fruit Products, Mahalakshmpuram, Bangalore	16-01-2009
120.	Jayalakshmi Iron foundry, Bangalore	16-01-2009
121.	Brindavan Phosphates, Bangalore	16-01-2009
122.	Surin AutomobilesPvt Ltd-, Bangalore	16-01-2009
123.	Rapsri Engineering Pvt Ltd, Bangalore	16-01-2009
124.	Vijaya SteelsPvt Ltd, Bangalore	10-02-2009





125.	Medrich Ltd, plot No-36, Bangalore	21-02-2009
126.	Sami Labs Ltd, Bangalore	11-03-2009
127.	Sri Padmini Silks Industries, Plot No-7, Bangalore	11-03-2009
128.	TMC Anekal	11-03-2009
129.	Bombay Rayon Fashions Ltd, Bangalore	16-03-2009
130.	Khoday Breweries, Kankapura Main Road, Bangalore	16-03-2009
131.	Biocon India Limited, 20 <sup>th</sup> K-M- Hosur Road, Hebbagodi- 561 229, Bangalore	21-01-2009
132.	Mangalore Chemicals and Fertilizers Ltd-, Panambur, Mangalore - 575 010	29-01-2009
133.	Mangalore Refinery and Petrochemicals Limited, Kuthethoor, Via Katipalla, Mangalore 575 030	29-01-2009
134.	ACC Limited, Tondebavi Village, Gouribidanur Tk-, Kolar District-	11-03-2009
135.	Associated Cement Company Ltd-, Wadi Cement Works, (Old Plant), Wadi P-O- Wadi, Gulbarga District – 585 225	24-03-2009
136.	Madras Cement Ltd-, Mathod, Hosadurga Taluk, Chitradurga District – 577 533	23-03-2009
137.	Gemini Distillery, Goluru/Geekahalli, Nanjangud, Mysore District.	10-07-2008
138.	J.P.Distillaries, Hegadatha Halli, Kunigal Taluk	09-07-2008
139.	Sovereign Distilleries, Singapur Village, Sindanur Taluk, Raichur District.	16-05-2008
140.	Jubilant Organosys Ltd, Nanjangud, Mysore District	24-04-2008
141.	BASF Indus Ltd, Bala village, Mangalore	12-08-2008
142.	Athani Farmers Sugar Factory Ltd, Madabhavi village, Athani Tq, Belgaum District.	09-07-2008
143.	General Hospital, Sagar, Shimoga	01-04-2008
144.	Sri Jayachamarajendra General Hospital, Shimoga	01-04-2008
145.	Govt General Hospital, Bhadravathi, Shimoga	01-04-2008
146.	T.S.S. Shirpad Hegde Kadave Institute of Medical Science, Karwar	01-04-2008
147.	Gurushree Hitech Multi Speciality Hospital, Bangalore	26-04-2008
148.	Raichur Institute of Medical Science, Raichur	11-04-2008
149.	Karnataka Private Medical Establishment Association, Bijapur	24-05-2008
150.	Hassan Insitute of Medical Science, Hassan	08-07-2008
151.	Puttur City Hospital, Mangalore	05-07-2008
152.	Ragavs Diagnostic Centre Pvt. Ltd., Bangalore	26-04-2008
153.	JSS Hospital, Mysore	12-09-2008
154.	Vikram Hospital, Mysore	12-09-2008
155.	Rajiv Gandhi Super Speciality Hospital, Raichur	26-09-2008



156.	JSS Ayurvedic Hospital and College, Mysore	25-10-2008
157.	Karnataka Institute of Mental Health, Dharwad	30-10-2008
158.	CSI Holds Worth Memorial Hospital, Mysore	30-10-2008
159.	Leprosy Hospital, Bangalore	30-10-2008
160.	K.R. Hospital, Mysore	30-10-2008
161.	District Hospital, Karwar	30-10-2008
162.	District Hospital, Raichur	25.10.2008
163.	Navodaya Medical College Hospital & Reseach Centre, Raichur	25.10.2008
164.	Victoria Hospital, Bangalore	24-11-2008
165.	Bowring and Lady Curzon Hospital, Bangalore	24-11-2008
166.	Vanivilas Hospital, Bangalore	24-11-2008
167.	Minto Hospital, Chamrajpet, Bangalore	24-11-2008
168.	General Hospital, Jayanagar, Bangalore	24-11-2008
169.	Hajee Sir Ismail Sait Gosha Hospital, Bangalore	24-11-2008
170.	K.C. General Hospital, Malleshwaram, Bangalore	24-11-2008
171.	S.D.S. TB & Rajivgandhi Institute of Chest Disease, Bangalore	24-11-2008
172.	ESI Hospital, Rajajinagar, Bangalore	24-11-2008
173.	Kidwai Memorial Institute of Oncology, Bangalore	24-11-2008
174.	Govn TB & CD Hospital, Old Madras Road, Bangalore	24-11-2008
175.	Leprosy Hospital, Bangalore	24-11-2008
176.	General Hospital, Yelahanka, Bangalore	24-11-2008
177.	General Hospital, KR Puram, Bangalore	24-11-2008
178.	Epidemic Diseases Hospital, Bangalore	24-11-2008
179.	ESI Indiranagar, Bangalore	24-11-2008
180.	Columbia Asia Hospital, Mysore	21-01-2009
181.	Columbia Asia Hospital, Belavatta village, Kasaba hobli, Mysore	21-01-2009
182.	Dr. Ambedkar Medical College & Hospital, K.G. Halli, Bangalore	19-01-2009
183.	Hindustan Aeronautics Limited Hospital. Medical and Health Centre, Vimanapur, Bangalore	19-01-2009
184.	St. Martha's Hospitals, Nrupathunga road, Bangalore	19-01-2009
185.	Kempegowda institute of medical science Hospital and research centre, K.R. Road, Bangalore	19-01-2009
186.	S. Nijalingappa Medical College and Hangal Shri Kumareshwar Hospital & research centre, Navnagar, bagalkot	28-01-2009
187.	Vijayanagar Associates, I.B. Road, Adjacent to Mega World Gym, Raichur	21-01-2009
188.	M/s. Sanjo Hospital, Umadahalli village, Mandya taluk & district	07-02-2009



189.	M/s. Narayana Hrudayalaya, Bommasandra Industrial Area, Anekal Taluk, Bangalore	07-02-2009
190.	Nanjappa Hospital, Kuvempu Road, Shimoga	10-02-2009
191.	Maridi Eco Industries pvt ltd., Gabbadi Kaval, Kanakapura Road, Ramanagar	10-02-2009
192.	Manipal Health Systems, 9th Main Road, Jayanagar, Bangalore	07-02-2009
193.	Command Hospital, Air Force, Agram, Bangalore	11-03-2009
194.	Cauvery Medical Centre Limited, Bellary Road, Kodigehalli Gate, Hebbal, Bangalore	11-03-2009
195.	Nanjappa Nursing College and Heart Hospital, Kuvempu Road, Shimoga	25-03-2009
196.	Dumping of Bio Medical Waste at Anjanapura Layout	11-03-2009
197.	P.D. Hinduja Sindhi Hospital, Sampangiramnagar, Bangalore	11-03-2009
198.	Indian Silks, PIA, Bangalore	23-04-2008
199.	Hexagon Biopharma,	06-05-2008
200.	Organic Aromatics,	20-05-2008
201.	Vinir Engineering	21-06-2008
202.	Srinivasa Gayatri Resources Private Limited. Bangalore	08-04-2008
203.	Prerana Motors. Mysore.	22-04-2008
204.	Kariganur Minerals KMMI. Bellary.	22-04-2008
205.	Arpee Iron ore mine of R. Mallama, Bellary	25-04-2008
206.	S.B. Minerals. Bellary.	25-04-2008
207.	Shaik Sab. Bellary.	25-04-2008
208.	Cipla Limited. Bangalore.	25-04-2008
209.	Barathi Airtel. Chitradurga.	29-04-2008
210.	Karnataka Malladi Biotech Limited, Mandya	29-04-2008
211.	Toyota Bhoshuku Automotive Private Limited. Bidadi, Ramanagar.	29-04-2008
212.	Archidply Industries. Chintamani, Chikkaballapura.	13-05-2008
213.	Chrysalis Silks Private Limited. Doddaballapur.	26-05-2008
214.	Ramanadurga Iron Ore Mines of Kumaraswamy Mineral Export Sandur Taluk, Bellary.	30-05-2008
215.	Syngene International Limited. Bommasandra Ind area, Bangalore.	02-06-2008
216.	ITC Limited. Nanjangud Mysore.	03-06-2008
217.	K.T. Nagaratna. Chikkamagalur.	03-06-2008
218.	DTS Diamond Tools sea Private Limited. Anekal, Bangalore.	07-06-2008
219.	S.S Enterprises, Anekal, Bangalore.	28-06-2008
220.	English Indian clays Limited, Shimoga	23-06-2008
221.	A.J Stationery Private Limited. Srirangapatna, Mandya.	23-06-2008
222.	D.S.S Sugars Limited, Bijapur.	08-07-2008



223.	Global Green Company Limited. Bangalore.	02-07-2008
224.	Sai Baba Industries. Tumkur.	05-07-2008
225.	Bhotika Ispat. Tumkur.	05-07-2008
226.	Matrix Agrotech. Haveri.	16-07-2008
227.	Scan Ispat Private Limited. Koppal.	26-07-2008
228.	Vardhaman Pressure Die casting. Bangalore.	26-07-2008
229.	Larsen and Toubro Ltd. Mysore.	29-07-2008
230.	Cotton World. Bangalore.	29-07-2008
231.	Nakod Designer Tiles. Hassan.	29-07-2008
232.	Macruss Engineering. Bangalore.	29-07-2008
233.	Bharath Fashions & Apparels. Bangalore.	29-07-2008
234.	Pointec Pens (p) Ltd. Bangalore.	29-07-2008
235.	Fresco Foods Pvt Ltd. Hassan.	13-08-2008
236.	Tadimety Aromatics Pvt Ltd. Tumkur.	13-08-2008
237.	B.Kumar Gowda. Iron Ore Mining, Bellary.	13-08-2008
238.	L&T Komatsu Ltd. Bangalore.	13-08-2008
239.	Silkee Electronics Pvt Ltd. Bangalore.	13-08-2008
240.	Sachik Home Textiles Pvt Ltd. Bangalore.	22-08-2008
241.	Maini Materials Movements Pvt Ltd. Bangalore.	22-08-2008
242.	Mulbery Silks Ltd. Bangalore.	22-08-2008
243.	Scotts Garments Pvt Ltd. Bangalore.	22-08-2008
244.	Hexagon Bio Pharma Pvt Ltd. Bangalore.	25-08-2008
245.	Suzlon Wind International Ltd. Udupi.	12-09-2008
246.	Trivista Steel & Power Pvt. Ltd. Koppal.	12-09-2008
247.	Tungabhadra Minerals Pvt.Ltd. M.L No.2365.Bellary.	12-09-2008
248.	Tungabhadra Minerals Pvt. Ltd. M.L No 2366 Bellary.	12-09-2008
249.	Tungabhadra Minerals Pvt. Ltd. M.L No. 987. Bellary.	12-09-2008
250.	Wipro Ltd (Infotech Division) Mysore.	26-09-2008
251.	Southfield Paints Ltd. Malur, Kolar.	26-09-2008
252.	L.G.C Research & Development Centre. Peenya.	26-09-2008
253.	Tuffest Safety Glasses Pvt. Ltd. Anekal, Bangalore.	30-09-2008
254.	Taddimety Aromatics Pvt. Ltd. Tumkur.	14-10-2008
255.	Aspa Auto Lamps Pvt Ltd, Bangalore.	14-10-2008
256.	J.S.W Steel Processing Centre Ltd., Bellary.	25-10-2008
257.	H.G. Rangan Gowda M.L No.2148. Bellary.	25-10-2008
258.	Sandur Mangenese & Iron Ore Ltd M.L No. 1179, Deogiri, Bellary.	25-10-2008
259.	Bharath Cement Products. Bangalore.	26-11-2008



260.	S.G.K Industries. Shimoga.	26-11-2008
261.	Galvano Castings Pvt Ltd. Bangalore.	26-11-2008
262.	Prerana Motors (P) Ltd. Bangalore.	15-01-2009
263.	Pointec Pens Pvt Ltd. Gadag.	15-01-2009
264.	Heritage Grape Winery (P) Ltd. Ramanagaram.	21-01-2009
265.	Adishakthi Cars. Shimoga.	21-01-2009
266.	MTR Enterprises. Bangalore.	10-02-2009
267.	Arihant Metals & Extruded (P) Ltd. Bangalore.	10-02-2009
268.	SFO Technology (P) Ltd. Bangalore.	10-02-2009
269.	Superchem Oxides. Bangalore.	10-02-2009
270.	Cellulose Solutions (P) Ltd Bidar.	10-02-2009
271.	Bharathi Shipyard Ltd. Mangalore.	21-02-2009
272.	Jewagi Agro Food Park Ltd. Gulbarga.	21-02-2009
273.	Amitronics (P) Ltd. Bangalore.	21-02-2009
274.	Bill Forge (P) Ltd. Bangalore.	21-02-2009
275.	A.P Fashions (P) Ltd. Bangalore.	21-02-2009
276.	Kamath Transformers (P) Ltd. Bangalore.	21-02-2009
277.	M. Habeebullah. Bellary.	21-02-2009
278.	Dasaratharami Reddy. Tumkur.	21-02-2009
279.	Toyoto Kirloskar Motor. Bangalore.	24-02-2009
280.	Sequent Scientific Ltd. Mangalore.	11-03-2009
281.	Nisarga Industries. Shimoga.	11-03-2009
282.	ACE Concrete Pvt Ltd. Bangalore.	11-03-2009
283.	S.B Mangalwadhe Oil Mills. Bijappur.	11-03-2009
284.	Campco Chocolate Factory. D.K Dist.	11-03-2009
285.	Mineral Enterprises Ltd. Chitradurga.	16-03-2009
286.	K.G.N Enterprises. Bidar.	25-03-2009
287.	Quadri Enterprises. Bidar.	25-03-2009



## ANNEXURE- XVI

**Summary of pollution control status of 17 Categories of industries in Karnataka as on 31.03.2009**

Sl. No.	Sector	Effluent Control System								Emission Control System					
		No. of Industries	OPRS	OPRNS	NETP	BCD	UCLO	UCLB	No. of Industries	OPRS	OPRNS	NECS	BCD	UCLO	UCLB
1	Aluminum	1	1	0	0	0	0	0	1	1	0	0	0	0	0
2	Caustic Soda	1	1	0	0	0	0	0	1	1	0	0	0	0	0
3	Cement	15	14	0	0	0	1	0	15	13	0	1	0	1	0
4	(a) Distillery	19	17	0	0	0	2	0	19	17	0	0	0	2	0
	(b) Distillery & Sugar	13	13	0	0	0	0	0	13	10	3	0	0	0	0
5	Dye & Dye Intermediates	3	3	0	0	0	0	0	3	3	0	0	0	0	0
6	Fertilizer	2	2	0	0	0	0	0	2	2	0	0	0	0	0
7	Integrated Iron & Steel	1	1	0	0	0	0	0	1	1	0	0	0	0	0
8	Tannery	2	2	0	0	0	0	0	2	2	0	0	0	0	0
9	Pesticide	1	1	0	0	0	0	0	1	1	0	0	0	0	0
10	Petrochemical	1	1	0	0	0	0	0	1	1	0	0	0	0	0
11	Pharmaceuticals	39	35	0	0	0	4	0	39	35	0	0	0	4	0
12	Pulp & paper	3	3	0	0	0	0	0	3	3	0	0	0	0	0
13	Oil Refinery	1	1	0	0	0	0	0	1	1	0	0	0	0	0
14	Sugar	42	33	3	0	1	5	0	42	17	17	3	0	5	0
15	Thermal Power	5	5	0	0	0	0	0	5	5	0	0	0	0	0
16	Copper Smelter	-	-	-	-	-	-	-	-	-	-	-	-	-	-
17	Zinc Smelter	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	<b>TOTAL</b>	<b>149</b>	<b>133</b>	<b>3</b>	<b>0</b>	<b>1</b>	<b>12</b>	<b>0</b>	<b>149</b>	<b>113</b>	<b>20</b>	<b>4</b>	<b>0</b>	<b>12</b>	<b>0</b>

**Note-1** : OPRS - Effluent Treatment/ Emission Control system installed and complying with the standards.

OPRNS - Effluent Treatment/ Emission Control system installed but not complying with the standards.

NETP - Effluent Treatment System not installed

NECS - Emission Control System not installed

BCD - Effluent Treatment/ Emission Control system being constructed

UCLO - Industry closed on its own

UCLB - Industry closed by SPCB/ PCC.

**Note-2** : One old cement unit with wet technology is under revival. Out of 4 kilns one is with wet scrubber & in other kilns are not in operation. Consent not considered for other kilns



## ANNEXURE- XVII

### Industries authorized to reprocess hazardous wastes in Karnataka.

Sl. No.	Name & Address of unit	Authorized Qty.	Sch-1HW Process	Valid upto
<b>Aluminium Re-processors</b>				
1	South Indian Pulverisers (p),Ltd. No 66,KIADB Indl. Area, Malur.Tq, Kolar Dist	1200 MT/A	Aluminium Re-processor	30.09.2008
2	GTR Aluminium P Ltd No 33E, Veerasandra Indl. Area, Bangalore	2500 MT/A	Aluminium Re-processor	27.09.2009
<b>Common effluent treatment plants</b>				
3	Pai & Pai Chemicals, No.25-D, 1ST Phase, KIA, Bangalore.	20 KLD	CETP	30.06.2009
4	Pai & Pai Chemicals Pvt. Ltd, # 29A, 1st phase Kumbalgodu, Bangalore-74	300 KLD	CETP (Metal Finishing Waste)	30.06.2010
<b>Common Incineration Facility</b>				
5	Haat Incinerator India Private Limited, Plot NO: 35 B&C, Jigani Industrial Area, Anekal Taluk, Bangalore District.	1800 MT/A	Common Incineration Facility	30-06-2010
6	Century Refineries Pvt. Ltd, (Formerly M/s Century Refineries Unit-II), Plot NO.17-I & J, KIADB Indl. area, Hoskote Taluk, Bangalore.	2400 MT/A	Common Incineration Facility	30.06.2013
7	Gomti Incinco, No.3-B-2, 1st phase, KIADB (I) area, Kumbalgod	900 MT/A	Common Incineration Facility	30.06.2010
<b>Copper Re-processors</b>				
8	KG Nandini enterprises No. 42 Karihobanahalli, Yeshwanthpur Bangalore	240 MT/A	Copper Re-processor	29.08.2010
9	Saravana foundry & Engg. wires No 382, 10th Cross, 4th Phase, PIA, Bangalore	120 MT/A	Copper Re-processor	30.06.2010
10	Rajeshwari copper Products No 79, Indl. suburb, Yeshwanthpur, Bangalore – 560 022.	3600 MT/A	Copper Re-processor	30-06-2010



<b>Discarded Container Washing Units</b>				
11	Shobith Industry, B-4, KSSIDC Indl. area, Nanjangud, Mysore.	48,000 No.s	Discarded Container Washing	30.06.2010
12	Indian Barrels & Allied Metals No 8, Bannimantap Extension Mysore	5000 No.s/A	Discarded Container Washing	30.06.2010
13	M.M. Traders, Sy.No. 158, Ramanahalli, Kasaba Hobli, Mahadevapura Road, Mysore,	30000 No.s/A	Discarded Container Washing	08.02.2010
14	Falcon Impex Corporation No 9A/10A, Baikampady, Mangalore	14,400 No.s/A	Discarded Container Washing	30.06.2010
15	Haji U Hassanabba & Sons Plot No.89 & 90, KIADB Indl. Estate, Mangalore	12,000 No.s/A	Discarded Container Washing	30-06-2013
16	Puttur agencies No 110/1A1A, Mura Padnoor Village Rd., Puttur	1440 No.s/A	Discarded Container Washing	30.06.2010
17	Kohinoor Enterprises, No.15/A, Bidar.	300 MT/A	Discarded Container Washing	30-06-2010
18	Hajira Enterprises N0-52, Site No-115, Azeez Sait Industrial town, Nayandahalli, Mysore road, B-lore-79	1,35,000 No.s/A	Discarded Container Washing	30-06.2010
19	Shariff Enterprises, Thippasandra Road, Varthur, Bangalore-87.	18,000 No.s/A	Discarded Container Washing	30.10.2010
20	Shri Mahalaxmi Enterprises, No.2, Behind Raghavendra Indl. Estate, Karihobanahalli Main Road, Near Peenya 2nd Stage, Bangalore	30,000 No.s/A	Discarded Container Washing	30.06.2010
21	S.M.Z Industries, C-202, KSSIDC Industrial Estate, Mysore.	60,000No's/A	Discarded Container Washing	30.06.2013
22	Indian Technologies, Plot No.C-35, III Cross, KIADB Industrial Area, Hoskote Tq, Bangalore – 114.	120000 No.s/A	Discarded Container Washing	30.06.2010
<b>Etchant Re-processors</b>				
23	Shree Suchem Industry No 4-C2 Somanahally Industrial Area Maddur, Mandya	1800 KL/A	Etchant Re-Processor	30.06.2010





24	Global Rasayan, No 176 Hebbal Indl. Area, Mysore	600 MT/A	Etchant Re-processor	30.06.2010
25	Nanjangudu Tamara Rasayan Pvt. Ltd., No 35, 12th cross, V.V.Mohalla, Mysore	1800 KL/A	Etchant Re-processor	30.06.2008
26	Rama Chemicals, no.91/2, shed no.4, Subbanna Indl. area, Garucharyapalya, White field road, Mahadevpura.	360 KL/A	Etchant Re-processor	30.06.2010
27	Karnataka Agro Chemicals, 43-C, KIDAB (i) Area. Hoskote, Bangalore	3168KL/A	Etchant Re-processor	30.06.2010
28	Canara agro chemicals, Plot No.443-A, IV Phase, PIA, Bangalore	60 KL/A	Etchant Re-processor	12.09.2008
29	Chevrur chemicals & Industries, No.B-304, II Stage, PIE, Bangalore-58	960 KL/A	Etchant Re-processor	30.06.2010
30	Multiplex agricare Pvt. Ltd., No.454, IV Phase, PIA, Bangalore-58	600 MT/A	Etchant Re-processor	30.06.2008
31	Shri Varu Acid & Chemicals No 143 3rd Phase, Peenya Industrial. Area, Bangalore	1200 KL/A	Etchant Re-processor	30.06.2010
32	Shree Laxminarayana Chemical, Plot No.47-P3, Hirehally Indl. Area, Tumkur	1.93 KL/D	Etchant Re-processor	30.06.2010
<b>E-Waste Recyclers</b>				
33	Ash Recyclers, No.94, Thimmaiah Rd, Bangalore	120 MT/A	E-Waste	31-12-2010
34	Ash Recyclers, No.3, KSSIDC (i) Estate, Hoskote, Banalore-14	120 MT/A	E-Waste	30.06.2010
35	E Parisara Pvt. Ltd No 30-P3, Dabaspeta, Bangalore	600 MT/A	E-Waste	30.06.2010
36	Nishanth Technologies, Shed No. B-121/A, ITI Dyavasandra Industrial Estate, Whitefield Road, Bangalore	240 MT/A	E-Waste	30.06.2010
37	Moogambigai Metal Refineries, Plot No.89 & 90, Industrial Area, Baikampady, Mangalore – 11.	14.4 MT/A	E-waste	30.06.2013
<b>Lead Re-processors</b>				
38	Sapthagiri Metal Refinery, Kallur, Mandli, Shimoga	850 MT/A	Lead Re-processor	08.01.2010



39	Mahaveer metal Works NH- 13, baradi Cross road, Kanthavara, Karkala, Udupi	360 MT/A	Lead Re-processor	30.06.2010
40	Jayvel Enterprises, plot no.26A, KIADB Indl. area, Malur, Kolar.	300 MT/A	Lead Re-processor	30.06.2014
41	Leadage Alloys Ltd., Sy.No.60/2, Seethanayakanahalli, Malur Taluk, Malur Indl. Area, Kolar.	24,000 MT/A	Lead Re-processor	30.06.2010
42	Eshwari Metal Industries(Unit-II), Plot No.96 & 97, Industrial Area, Baikampady, Mangalore-11	6000 MT/A	Lead Re-processor	30.06.2010
43	Eshwari Metal, Industries 101-A, Baikampady Indl. Area, Mangalore	4230 MT/A	Lead Re-processor	26.02.2010
44	Evershine Smelting Alloy(P) Ltd, Plot NOL 15-C. Zone-2, Attibele Industrial Area, Anekal Taluk, Bangalore-562 107.	3200 MT/A	Lead Re-processor	30.06.2010
45	Ponni Industries No 24 4th Phase Bommasandra Industrial Area Bangalore	5000 MT/A	Lead Re-processor	30.06.2010
46	Saraswathi Industries, Street No: B-40 Veerasandra Industrial Area, Anekal Taluk, Bangalore-158.	3200 MT/A	Lead Re-processor	30.06.2010
47	Ananda Metal Corpn., No.C-81, III Stage, PIE, Bangalore-58	1500 MT/A	Lead Re-processor	30.06.2010
48	GN Industries, No.490-D, IV Phase, PIA, Bangalore-58	1440 MT/A	Lead Re-processor	30.06.2010
49	Mekala Metal Works (Unit-1), II Stage, PIE, Bangalore	3000 MT/A	Lead Re-processor	30.06.2010
50	Om Shivashakthi Metal Works No B 196 II Stage, PIA, Bangalore	600 MT/A	Lead Re-processor	30.06.2013
51	Mekala Metal Works (Unit-2), Yeshwanthapur, Bangalore	8.0 MT/A	Lead Re-processor	30.06.2010
52	Balaji Smelters & Alloys, Sy.No.138/P9, Hulimangala, Hoskote Village, Lakkur Hobli, Malur Taluk, Kolar	500 MT/A	Lead Re-processor	26.08.2010
53	Maharanjani Metal Mart, KIADB Indl. Area, Malur.	27 MT/A	Lead Re-processor	06.02.2010
<b>Non-Ferrous Metals</b>				
54	B.T. Solders (P) Ltd., Plot No.89, Belagola Industrial Area, Mysore-570 016.	400 MT/A	Non Ferrous Metals	30.06.2008



<b>PCB Sludge processors</b>				
55	Jarali Industries No 1099, Autonagar Kanabargi, Belgaum	5184 MT/A	PCB Sludge	30.06.2010
<b>Spent Catalyst Re-processors</b>				
56	Supraveni Chemicals P Ltd No.8-C1 Kadugodi Bangalore	4120 MT/A	Spent Catalyst re-processor	24.05.2009
57	Alchemist Processors A-150, II C Main, PIA, Bangalore	720 MT/A	Spent Catalyst re-processor	30.06.2010
<b>Spent Solvent Distillation units</b>				
58	Sonia Industries, # D-15, KSSIDC Industrial Estate, Kumbalgodu, Bangalore -74.	600 MT/A	Spent Solvent Distillation	18.11.2009
59	Bhavana Agencies, No.58c-4, Hoskote Industrial Area, Hoskote Bangalore Dist.	1200 KL/A	Spent Solvent Distillation	30.06.2010
60	Sri Sai Industries, plot no.12B, KIADB Indl. area, Somanahalli, Mandya.	7200 KL/A	Spent Solvent Distillation	30.06.2010
61	Shubhdeep Industries Plot no 4-c-1/A KIADB Indl. Area Somanahalli, Maddur.tq, Mandya	14,400 KL/A	Spent Solvent Distillation	30.06.2010
62	Sun Synthetics, No. 445, KRS Road, Metagalli, Mysore	3000 MT/A	Spent Solvent Distillation	30-06-2008
63	Universal Chemical Industries 19/2, 7th mile, stone Mysore rd., Bangalore	120 KL/A	Spent Solvent Distillation	30.06.2007
64	Panchamukhi Chemicals, No.9-10, Jigani Indl. Area, KSSIDC 1st phase, Anekal Tq.	1200 KL/A	Spent Solvent Distillation	30.06.2010
65	SV Asphalt Products (P) Ltd No 94, 25/1, Bangalore	156 KL/M	Spent Solvent Distillation	30-09-2008
66	Saastha Chemisool, NO: 15, A6, 10th Cross, Jigani Industrial Area, Anekal Taluk, Bangalore.	12,000 KL/A	Spent Solvent Distillation	30.06.2010
67	Jyothi Chemicals industries, (Spent solvent) Survey Nos: 29/301, Jigani Industrial Area, Anekal Taluk, Bangalore.	1800 KL/A	Spent Solvent Distillation	30.06.2010
68	Banashankari Chemicals NO: C-94, KSSIDC Industrial Estate, Bommasandra Industrial Area, Bangalore	1800 KL/A	Spent Solvent Distillation	30.06.2014



69	Banashankari Industries, B-84, KSSIDC Industrial Area, Bommasandra, Bangalore.	2500 KL/A	Spent Solvent Distillation	30.06.2010
70	Durga Solvents No.C-95, Bommasandra Indl. Area, Bangalore	600 KL/A	Spent Solvent Distillation	30.06.2013
71	Sri Durga Chemicals Corp, D-63,Veerasandra Industrial Area, Hosur Road, Bangalore-561 229.	328 KL/A	Spent Solvent Distillation	30.06.2013
72	Metro Enviropark(P) Limited [Century Refineries], Plot no. 17C, KIADB (I) estate, Old Madras Road, Hoskote, Bangalore -562	24,000 KL/A	Spent Solvent Distillation	30.06.2010
73	Purex Laboratories (I) (P) Ltd, Virgonagar, Old Madras Rd, Avalahalli, Bangalore-49	2800 KL/A	Spent Solvent Distillation	31.07.2009
74	Somu Solvents, Veerasandra Industrial Estate, Anekal Taluk, Bangalore.	1590 KL/A	Spent Solvent Distillation	30.06.2013
75	Shalini Enterprises, No.A-6, III Stage, PIE, Bangalore-58	12000 KL/A	Spent Solvent Distillation	30.06.2010
76	Gomti Resins & Polymers (P) Ltd, B-36, KSSIDC Indl. Estate, Kumbalgod, Bangalore-560074.	3000 KL/A	Spent Solvent Distillation	30.06.2010
<b>Used Oil Recycling units</b>				
77	S.M.Enterprises, No. 4911,M.C. Road, Mandya	4200 KL/A	Used Oil Recycling	30.06.2010
78	Special Oils No 202/2, Kuruvinakoppa Village, Kalaghatgi, Dharwad	1440KL/A	Used Oil Recycling	30.06.2010
79	Nakoda Petro Chemicals, plot no.8, KIADB Indl. area, Sathyamangala, Tumkur.	1800 KL/A	Used Oil Recycling	30.06.2013
80	Shanthadurga Petrochemicals No 701 Shedegalli Manturga Post Khanapur Belgaum	1800 KL/A	Used Oil Recycling	30.06.2010
81	Jyothi Chemicals industries,(Used oil) Survey Nos: 29, 30/1 & 30/2, Jigani Industrial Area, Anekal Taluk, Bangalore.	1020 KL/A	Used Oil Recycling	28.06.2009
82	Lubetech Petro Chemicals, NO: 1-54, KSSIDC, Veerasandra Industrial Area, Hosur Road, Bangalore-561 229.	1440 KL/A	Used Oil Recycling	31.01.2010



83	Sri Balaji Refineries, B-5&6, Veerasandra Industrial Area, Anekal Taluk, Bangalore.	1100 KL/A	Used Oil Recycling	30-06-2010
84	SB Refineries Plot No. 81, 4th phase, Bommasandra Link Road	3600 KL/A	Used Oil Recycling	19.08.2009
85	Century Refineries(Used Oil), Plot no. 17B, KIADB (I) estate, Old Madras Road, Hoskote, Bangalore-	10,000 MT/A	Used Oil Recycling	26.08.2010
86	Bharat Lubricants B-36 Veerasandra Indl. Area, Bangalore	9000 KL/A	Used Oil Recycling	27.03.2009
87	Arun Industries, B-64, III Stage, PIE, Bangalore-58	360 KL/A	Used Oil Recycling	30.06.2010
88	MR Industries, Plot no.14-G, 1stCross 2nd main, Kumbalgod, Bangalore-74	1000 KL/A	Used Oil Recycling	30.06.2010
89	Merlyn Hydrocarbons P Ltd No 366 Hassan Growth Centre	3600 KL/A	Waste Oil recycler	17.09.2008
90	Indolubes & Solvents No.352, 4th main, PIA, Bangalore	1500 KL/A	Waste Oil Recycler	30.06.2014
<b>Used Oil Recycling units</b>				
91	Vasthu Chemicals Pvt. Ltd., No. 314, Part-I, Hebbal Industrial Area, Mysore.-570016	1100 MT/A	Zinc re-processor	30-06-2010
92	Himalaya Oxides Ltd, No.231-A, Hebbal Industrial Area, Mysore – 571 186	240 MT/A	Zinc re-processor	30.06.2010
93	Chemitals (P) Ltd., No.156, I Stage, PIE, Bangalore-58	1080 MT/A	Zinc re-processor	12-09-2008
94	MSR Chemicals P Ltd No 22/3, Mantanakurchi, Nelamangala Bangalore	750 MT/A	Zinc re-processor	04.10.2008
95	Pranil Enterprises, Sy. No.32, Kullugopanahally, Ramanagar taluk, Bidadi.	3600 MT/A	Zinc re-processor	30.06.2010



## ANNEXURE XVIII - A

### Environmental awareness programmes sponsored by the Board during 2008-09:

Sl. No	Name of the NGO/Firm	Nature of Activity	Date of Sanction	Sanctioned amount
1	Adlabs Films Limited, BIG-92.7. -F.M. Radio, #.20,5 <sup>th</sup> cross,5 <sup>th</sup> Block, Koramangala, Bangalore-560095.	Sponsorship- Broadcasting for 'Day Branding' on the eve of World Earth Day-2008	22/4/08	Rs.95,000/-
2	Secretary Prakashana Education & Rural Development Society, Sanatana Nilaya, Cycle stand Factory Road, Upparahally, Tumkur.	Sponsorship to provide rain water harvesting facility in one Govt. school & conducting demo program on Rain water harvesting for the public.	29/04/08	Rs.30,000/-
3	Secretary Vani Vidya Samsthe, Teetha, Koratagere taluk-572129 Tumkur-Dist	Sponsorship for installing one permanent Hoarding of 10X20 size with multicolor painting & messages, ten cement bins of size 2x2x3 feet in prime areas and for conducting inter school debate competition on environment protection	29/04/08	Rs.85,000/-
4	Secretary Chetana - Urban & Rural Development Society, Chikkanavangala, Tarikere-Taluk, Chikmagalur-577145.	Sponsorship for provide rain water harvesting facility in one Govt. school & conducting demo programme on rain water harvesting for the public.	29/04/08	Rs.30,000/-
5	Managing Trustee SEED- Trust GBN.Road. RMC Market yard, Madhugiri-572132	To conducting Street Play on the impact of reckless Sand Mining on the Environment & about tree planting for ten programmes in 5 villages of Madhugiri Taluk.	29/04/08	Rs.30,000/-
6	Managing Director AAJKA SAMNA-TV, #.953, 32 <sup>nd</sup> E cross,	Sponsorship for telecasting Environment related programme i.e Documentary	29/04/08	Rs.20,000/-



7	28 <sup>th</sup> main 4 <sup>th</sup> T Block, Tilak Nagar, Jayanagar, Bangalore-560041.  Secretary Science Education Trust, Vijnana Betta, Rashtra Kavi Kuvempu vana, Mantralayam Road, Raichur-584103	film /Advertisement in AAJKA SAMNA- T.V.  Sponsorship for providing Rain water Harvesting facility to one Govt. School/ public building & conducting training programme to 700 D.Ed & B.Ed Teachers and students of Raichur city and to conduct competition in essay and selection programme to be conducted.	02/05/08	Rs.67,000/-
8	Secretary CARTMAN #. 870, 17 <sup>th</sup> E, Main, Koramangala, 6 <sup>th</sup> Black, Bangalore-560095	To conducting Environmental awareness programme programmes on the eve of World Environment Day-2008	20/05/08	Rs.15,000/-
9	Manager Manager Concern India Foundation, #.104, ground Floor, St. John's, Church Road, Bangalore-560005.	Sponsorship for conducting "Anti litter Awareness Campaign	27/05/08	Rs.2,00,000/-
10	The Station Director Radio city -91.1F.M. Radio, #.137,10 <sup>th</sup> Floor, H.M.G.Ambassador Building, Residence Road, Bangalore-560025	Broadcasting of Environment Awareness programmes on the eve of World Environment Day-2008	30/05/08	Rs.67,500/-
11	The Station Director, Prasara Bharati, All India Radio Bangalore-560001.	Broadcasting of Environment Awareness programmes on the eve of World Environment Day-2008	30/05/08	Rs.99,493/-
12	President Bharatiya Samaja Seva Trust, #. 36/1, Nanjamba Agrahara, 5 <sup>th</sup> Main, Chamarajpet, Bangalore-18.	Sponsorship for conducting Environment Awareness programmes on the eve of World Environment Day-2008.	30/05/08	Rs.10,000/-
13	Secretary Women's & Children Welfare Association, #.243, 5 <sup>th</sup> main,	Sponsorship for conducting Environment Awareness programme on the eve of		



	12 <sup>th</sup> cross, T.K. Layout, Kuvempunagar, 4 <sup>th</sup> stage, Mysore-570009.	World Environment Day-2008.	04/06/08	Rs.10,000/-
14	Project Director Sharathi,-A Resource Center for communications #.29, 1 <sup>st</sup> floor, 28 <sup>th</sup> cross 9 <sup>th</sup> main, B.S.K. 2 <sup>nd</sup> stage, Bangalore-70.	Sponsorship for the one day Orientation programme and inviting Poster designs on specific environment issues	04/06/08	Rs.96,000/-
15	Chairman Eco-Watch, #.403, 5 <sup>th</sup> main, 18 <sup>th</sup> Cross, 3 <sup>rd</sup> Block, Jayanagar, Bangalore-560011.	Financial assistance for launch of green Karnataka project	23/07/08	Rs.50,000/-
16	The Station Director Prasara Bharati All India Radio, Bangalore-560001.	Sponsorship for Environment Awareness programmes on the eve of Ganesha Festival -2008	23/08/08	Rs.28,651/-
17	Entertainment Network (India) LTD, Radio Mirchi -98.3.F.M, #39/2. 3 <sup>rd</sup> Floor, Sagar Building, Bannerghatta Road, Bangalore-560029.	Sponsorship for Environment Awareness programmes on the eve of Ganesha Festival -2008	26/08/08	Rs.75,990/- + tax
18	The Station Director Doordarshana Kendra. J.C. Nagara, Bangalore.	Sponsorship for Environment Awareness programmes on the eve of Ganesha Festival -2008.	26/08/08	Rs.24,000/-
19	The Station Director Prasar Bharati, All India Radio. Bangalore -560001.	Broadcasting of Environment Awareness programmes on Global warming and climate change in AI R.	06/09/08	Rs.3,41,931/-
20	Secretary CURDS-NGO #.58, 3 <sup>rd</sup> main Road, 3 <sup>rd</sup> cross, K.M. Colony, Venkatarreddy Nagar, Jayanagar, Bangalore-11.	To conducting Environmental awareness programme at Udupi.	15/09/08	Rs.50,000/-
21	Secretary Durga Parameswari Grameena Samagra vidya kala yuva	Sponsorship for providing Rain water Harvesting felicity to one Govt. School &		





	Abhivridhi Samsthe, Veerlagondi, Pavagada-Taluk, Tumkur-Dist.	conducting training programme.	16/09/08	Rs.35,000/-
22	Secretary CARTMAN #. 870, 17 <sup>th</sup> E, Main, Koramangala, 6 <sup>th</sup> Black, Bangalore-560095	To conducting awareness programme through Audio Visual shows for School & Colleges of Bangalore Rural & Urban District.	16/09/08	Rs.1,00,000/-
23	President SHADE, #. 8-11-273, Jyoti Nivas, Jyoti colony, Bidar-585401.	To conducting awareness programme through Street plays on Eco-friendly life styles.	16/09/08	Rs.50,000/-
24	Secretary Sri Santhoshi Matha Service Organization, #.12,1 <sup>st</sup> Cross, Thavarekere, Bangalore-560081.	Sponsorship for providing Rain water Harvesting felicity to one Govt. School /public building & conducting training programme.	20/09/08	Rs.40,000/-
25	Secretary The Women's welfare society, #.146, sector,2, Shivabasava Nagar, Belgam-590010.	To conducting Environmental awareness programme at Belgium for school students.	20/09/08	Rs.25,000/-
26	President Tumkur Science Center (R) M.G. Road, Tumkur-572101.	Sponsorship towards developing posters for the Bhoomi Utsava to be held in 200 places on the eve of International year of planet earth 2008 at Tumkur Dist.	20/09/08	Rs.75,000/-
27	Executive Director Myrada Kaveri pradeshika samsthe, H.D.Kote, Mysore-Dist-571114	To conducting Environmental awareness programme at H.D.Kote, Mysore Dist.	20/09/08	Rs.1,00,000/-
28	Secretary Voluntary Health Association of Karnataka #.45,1 <sup>st</sup> Floor, KALRO Chambers, 8 <sup>th</sup> main, 15 <sup>th</sup> cross, Malleswaram, Bangalore-560055.	Sponsorship for providing Rain water Harvesting felicity to two Govt. Schools & conducting training programme.	20/09/08	Rs.70,000/-
29	M/s. Kasthuri Medias PVT Ltd, #.12/1, Kasturba Road, Bangalore-560001.	Sponsorship for Environment Awareness programme on the eve of Deepavali Festival -2008	20/10/08	Rs.86,400/-



30	The Station Director Prasara Bharati, All India Radio, Bangalore-560001.	Sponsorship for Environment Awareness programme on the eve of Deepavali Festival -2008	21/10/08	Rs.28,652/-
31	Bangalore Magic Center (Siddaraju) #.746, 66 <sup>th</sup> cross, 1 <sup>st</sup> stage, Kumaraswamy Layout Bangalore-560078.	Conducting Awareness Programme on Crackers through Magic Show in School's	22/10/08	Rs.52,000/-
32	President Bharat Water Foundation, Venkateshwara complex Near NTTF, P.B.Road, Dharwad- 580001.	Financial assistance for Exhibition on 'WATER 2K8' at Dharwad.	26/11/08	Rs.50,000/-
33	Programme Officer CEE South, Kamala Mansion #.143, Infantry Road, Bangalore-560001.	Financial assistance for Development of handouts on issues related to Air Pollution.	18/12/08	Rs.90,000/-
34	Secretary Nagarika Seva Trust, Guruvayanakere-post, Belthangady-Taluk, D.K.Dist-560011.	For conducting Environmental awareness programme for school students.	20/12/08	Rs.1,00,000/-
35	Secretary Kodachadri integrated development, #.70. Rathnakara Nagara, Opposite Agri College, Shivamoga.-577225.	For conducting Environmental awareness programme for school students.	20/12/08	Rs.95,000/-
36	Secretary Karnataka Rajya vignana parishat Plat No. 5, Kubha plat Gulbarga	For conducting Environmental Awareness programme with Essay Quiz, Drawing, Jatha, Rally etc, in association with KSPCB at different places in Gulbarga, District.	30/12/08	Rs.1,00,000/-
37	Director Punya Bhumi –NGO Yaduru-Aluru-Taluk, Hassan-Dist	For conducting Environmental Awareness different programme.	17/01/09	Rs.10,000/-
38	The President	Co-Sponsorship for		



	International Children's Film Festival, My sugar Building J.C.Road, Bangalore-577002.	International Children's Film Festival-2009.	28/01/09	Rs.2,00,000/-
39	Director Shivapriya School of Dance, #.36/1 Subramanya Kumara park West, Bangalore-560020.	Sponsorship for Environmental Dance programme.	30/01/09	Rs.50,000/-
40	Secretary Smardhea (R)6 <sup>th</sup> Cross, S.R. Extension, Holalkere, Chitradurga District	Sponsorship for providing Rain water Harvesting felicity to one Govt. School & conducting training programme.	07/02/09	Rs.50,000/-
41	Secretary Kittura Rani Channamma Association.(R) #.1948/45, 15 <sup>th</sup> cross, T.B. Extension, Davangere-577005.	Sponsorship for providing Rain water Harvesting felicity to one Govt. School & conducting training programme.	07/02/09	Rs.50,000/-
42	The Station Director Prasara Bharati, All India Radio, Hassan.	Sponsorship for broadcasting programme to create Environment Awareness	03/03/09	Rs.49,138/-
43	Secretary Parisara-Nisarga samrakshana samsthe, Spoortivana-CJF, BWSSB, 18 <sup>th</sup> cross, Malleswaram, Bangalore-560012.	Sponsorship for creating awareness on Global warming.	17/03/09	Rs.95,000/-
44	The Director F.M.Radio Fever-104, #.309,3 <sup>rd</sup> Floor, Touch Down No 1&2, HAL Industrial area Bangalore-560037.	Sponsorship for Awareness programme on Plastic.	03/01/09	Rs.60,169/-
45	The Station Director Prasara Bharati, All India Radio, Bangalore-560001.	Sponsorship for Awareness programme on Plastic.	03/01/09	Rs.50,000/-



46	Secretary Samaja Seva Samithi, #.60, 3 <sup>rd</sup> Cross Road, Gavipuram Extn, Bangalore-560019.	Sponsorship for Awareness programme on Plastic.	03/01/09	Rs.60,000/-
47	Professor and Head of the Dept. Anatomy and Histology, Veterinary College, Hebbal,	Sponsorship for Research project on "Eradication of pollution by recycling plastic	24/03/09	Rs.3,00,000/-



## ANNEXURE XVIII- B

### Seminars and workshops sponsored by the Board during 2008-09:

Sl. No	Name of the NGO/Firm	Nature of Activity	Date of Sanction	Sanctioned amount
1	Principal College of Fisheries , Mathsyaganagar, Mangalore-575002	Sponsorship for organizing one day National Workshop on "Present Status of Aquatic pollution and its Abatement".	12/06/08	Rs.25,000/-
2	Co-chairman, Organizing committee, Veterinary college, Hebbal, Bangalore-560024.	Sponsorship for organizing National Seminar on "Advances in Management and Diseases of wild Animals"-	18/06/08	Rs.50,000/-
3	Project Director Sharathi,-A Resource Center for communications, #.29, 1 <sup>st</sup> floor, 28 <sup>th</sup> cross 9 <sup>th</sup> main, B.S.K. 2 <sup>nd</sup> stage, Bangalore-70.	Sponsorship for the one day Orientation programme and inviting Poster designs on specific environment issues	23/06/08	Rs.96,000/-
4	The programme Coordinator CII-ITC Centre of Excellence for Sustainable Development II Floor, Thapar House, 124, Janpath, New Delhi -110 001.	Sponsorship for One Day workshop on CMZ Notification, 2008 & Reach Regulation of EU:Mangalore	26/06/08	Rs.70,000/-
5	Organizing Secretary, XX Annual Conference of National IAP,S.S. Institute of Medical Science & Research center NH-4 Bypass Road, Davangere-577005	Sponsorship for organizing XX Annual Conference of National IAP Respiratory Chapter.	04/07/08	Rs.25,000/-
6	Organizing Secretary, National Symposium, Veterinary college, Hebbal, Bangalore-24.	Sponsorship for organizing National Symposium on "Safe Meat for good health and Environment" and Meat borne Zoonoses: Current Scenario	02/07/08	Rs.25,000/-
7	The programme Co-ordinator Manufacturers Association for Information Technology, #.28, 2 <sup>nd</sup> Floor, 7 <sup>th</sup> cross, 2 <sup>nd</sup> A main, Indiranagar, 1 <sup>st</sup> Stage, Bangalore-38.	Sponsorship for National workshop on Awareness and consultation on Guidelines of Environmentally sound Management of E-waste	14/10/08.	Rs.50,000/-



8	Organizing Secretary National Symposium on plant protection University of Agriculture Science, GKVK Bangalore- 560065.	Sponsorship for National Symposium on plant protection.	03/12/08	Rs.2,00,000/-
9	Chairman Organizing committee, 73 <sup>rd</sup> Annual convention of Soil Scientists, University of Agricultural Sciences, G.K.V.K.Bangalore-65	Sponsorship for organizing 73 <sup>rd</sup> Annual convention of Soil Scientists, at G.K.V.K. Bangalore	11/12/08	Rs.1,00,000/-
10	Coordinator-(TW-EETB-2009) Department of Chemical Engineering, National Institute of Technology, Surathkal, Mangalore-575025.	Sponsorship for Workshop on "Emerging Trends in Environmental Biotechnology".	24/12/08	Rs.50,000/-
11	Chairman Eco-Watch, #.403, 5 <sup>th</sup> main, 18 <sup>th</sup> Cross 3 <sup>rd</sup> Block, Jayanagar Bangalore- 560011.	Sponsorship for workshop on water Resource Management & pollution control.	17/01/09.	Rs.50,000/-
12	Organizing Secretary Professor and Head, Physics Department, Siddha Ganga Institute of Technology, Tumkur-572103.	Sponsorship for Two days Workshop on "Wealth from Waste" –Awareness programme	17/01/09.	Rs.20,000/-
13	The Convener National Seminar Department of Biotechnology St.Aloysius College, Mangalore-575003.	Sponsorship for National Seminar on "Sustainable was te Management- Problems and solutions"	28/01/09.	Rs.50,000/-
14	Principal Sree Siddhaganga College of Arts, Science, Commerce, B.H.Road, Tumkur-572102.	Sponsorship for organizing "State level Seminar on Environmental Studies"	07/02/09.	Rs.1,00,000/-
15	The Convener National conference, Department of Studies in Environmental Science, University of Mysore, Mysore-570006.	Sponsorship for National conference on "Current trends in Environmental Science & Sustainable development"	07/02/09.	Rs.20,000/-



16	The Convener National Workshop Department of Studies in Geology, University of Mysore, Mysore-570006.	Sponsorship for National Workshop on "Rooftop Rainwater Harvesting and Groundwater Recharge"	03/03/09.	Rs.20,000/-
17	The Organizing Secretary National Seminar, Mount Carmel College, #.58, Place Road, Bangalore-560052.	Sponsorship for National Seminar on "Converging Sciences for quality Life"	03/03/09.	Rs.10,000/-
18	The principal Maharani Lakshmi Ammanni College for Women, Malleswaram, 18 <sup>th</sup> cross, Bangalore-560012.	Sponsorship for State level Seminar on "Clean Environment through Management of Organic Waste"	18/03/09.	Rs.10,000/-



## ANNEXURE XVIII- C

### Advertisements sponsored by the Board during 2008-09:

Sl. No	Name of the NGO/Firm	Nature of Activity	Date of Sanction	Sanctioned amount
1.	The Editor Karnataka sowrabha-Monthly, #.1252, 10 <sup>th</sup> main, 5 <sup>th</sup> cross, Vijayanagara Bengalooru -560040.	Release of Advertisement on Environment related issues.	05/04/2008	Rs.1,000/-
2	The Editor Uddaraka – (Monthly) #. 2, Block No.2, K.G.S. Quarts, Gavindarajanagar, Magadi Road, Housing Board Colony, Bengalooru-560079.	Release of Advertisement on Environment related issues.	05/04/2008	Rs.1,000/-
3	The Editor New Grameena Mitra, #.359,Venkataramanappa Building, Near GKVK, Amruthahalli,Bengalooru-92	Release of Advertisement on Environment related issues.	05/04/2008	Rs.2,000/-
4	Organizing Committee Rasayan-2008, Department of Chemical Engineering, M.S.R.I.T. Bengalooru-560054.	Release of Advertisement on Environment related issues.	09/04/2008	Rs.5,000/-
5	The Editor Sidilu-kannada Monthly #.1447,17 <sup>th</sup> Cross, Kumarswamy Layout, J.P.Nagara, Bangalore-78.	Release of Advertisement on Environment related issues.	24/04/2008	Rs.1,000/-
6	The President Sanatana Dharma for the Deaf, #.431, 5 <sup>th</sup> cross, R.R.Layout, Nagadevanahalli, Bangalore-56.	Release of Advertisement on Environment related issues.	24/04/2008	Rs.2,000/-
7	The Editor The Hindu-Daily, #. 19/21, Infantry Road, Bengalooru-560001.	Release of Advertisement on Environment related issues.	24/04/2008	Rs.30,000/-
8	Convener	Release of Advertisement on	02/05/2008	Rs.1,000/-





	Breakthrough Science Society, #. 106. 70 <sup>th</sup> cross, 17 <sup>th</sup> main, 5 <sup>th</sup> black , Rajajinagara, Bangalore-10.	Environment related issues.		
9	The Editor Vinoda –Kannada Monthly #.3, B.C.C, Bank Building, Pampamahakavi Road, Chamarajapet, Bangalore -560018.	Release of Advertisement on Environment related issues.	20/05/2008	Rs.3,000/-
10	The Editor Vidhi Karnataka - Kannada monthly, #.4278, Cowdappa compound, 17 <sup>th</sup> Ward, Vijayapura, Bangalore Rural -562135.	Release of Advertisement on Environment related issues.	20/05/2008	Rs.1,000/-
11	President Kannada Abhivruddhi Balaga, #.1740,6 <sup>th</sup> A main, Vijayanagara, 2 <sup>nd</sup> Stage, Bangalore-40.	Release of Advertisement on Environment related issues.	29/05/2008	Rs.15,000/-
12	The Editor Kadina Mitra-Weekly, #.678,HAL 3 <sup>rd</sup> Stage, Bangalore-75.	Release of Advertisement on Environment related issues.	29/05/2008	Rs.2,000/-
13	The Editor Parisara Ratna –Monthly #.126, 3 <sup>rd</sup> Main 3 <sup>rd</sup> cross, Prakashanagra, Bangalore -560021.	Release of Advertisement on Environment related issues.	04/06/2008	Rs.10,000/-
14	The Editor The Hindu-Daily, #.19/20, Infantry Road Bangalore-560001.	Release of Advertisement on Environment related issues.	04/06/2008	Rs.24,500/-
15	The Secretary Karnataka small scale Industries Association, #.2/106, 17 <sup>th</sup> cross, Magadi Chord Road, Vijayanagar, Bangalore-40.	Release of Advertisement on Environment related issues.	23/06/2008	Rs.12,000/-
16	Secretary Karnataka pratibhavardhaka	Release of Advertisement on Environment related issues.	23/06/2008	Rs.10,000/-



	Academy, SLV complex, Keelari Road, Bhalepate, Bangalore-53.			
17	Secretary Karnataka Sports Federation of the Deaf, #.31, SLV Nilaya, 5 <sup>th</sup> main, Ashoka Nagar, Tumkur -572103.	Release of Advertisement on Environment related issues.	01/07/2008	Rs.10,000/-
18	The Editor Bangalore Traffic News– Monthly, #.6, Purushotham Road, Halasuru, Bangalore -560008.	Release of Advertisement on Environment related issues.	01/07/2008	Rs.1,000/-
19	The Editor Jnana Jagathu –By monthly #.83/2, 1 <sup>st</sup> main Road, Magadi Main Road, Govindarajanagara, Bangalore-40.	Release of Advertisement on Environment related issues.	03/07/2008	Rs.10,000/-
20	The Secretary Indian Red Cross Society #.26, Red cross Bhavan, 1 <sup>st</sup> Floor, Race Course Road, Bangalore -560001.	Release of Advertisement on Environment related issues.	07/07/2008	Rs.25,000/-
21	The Chairman Swabhimana #.346, 3 <sup>rd</sup> cross, 8 <sup>th</sup> 'A' main, 4 <sup>th</sup> Block, Koramangala Bangalore -560034.	Release of Advertisement on Environment related issues.	09/07/2008	Rs.5,000/-
22	President Parivarthana Foundation, #.5, 1 <sup>st</sup> Floor, 1 <sup>st</sup> main, 1 <sup>st</sup> Block, Banashankari 3rd Stage, Bangalore -560085	Release of Advertisement on Environment related issues.	09/07/2008	Rs.10,000/-
23	The Secretary The International Association of Lions clubs #.13, 1 <sup>st</sup> Floor, 2 <sup>nd</sup> Main Road, G.D. park Extension Vyalikaval, Bangalore -03.	Release of Advertisement on Environment related issues.	18/07/2008	Rs.5,000/-



24	Editor Sarkari Noukarara vani- Monthly,#.16/1, F cross Pipeline, Malleshwaram, Bangalore -560003.	Release of Advertisement on Environment related issues.	18/07/2008	Rs.3,000/-
25	The Secretary Family Service-Childcare magazine, Golden Square, #.102, Eden park, 20, Vittal Mallya Road, Bangalore-560001.	Release of Advertisement on Environment related issues.	26/07/2008	Rs.36,000/-
26	President & Editor Human Rights & Environment Committee, #.10, 9 <sup>th</sup> main 9 <sup>th</sup> C cross, Pipeline, A.Dasarahalli, Bangalore -560086.	Release of Advertisement on Environment related issues.	02/08/2008	Rs.5,000/-
27	The Editor Surya Kerana –Monthly, #.8,1 <sup>st</sup> Floor 6 <sup>th</sup> cross, Mathru Layout, G.K.V.K. Bangalore-64.	Release of Advertisement on Environment related issues.	02/08/2008	Rs.1,000/-
28	Secretary Arasu vichara Vedike, #.41, T.D.Lane, Cottenpet Bangalore-560053.	Release of Advertisement on Environment related issues.	11/08/2008	Rs.5,000/-
29	Editor Aaj ka Samna English News paper,#.593, 28 <sup>th</sup> main 32 <sup>nd</sup> E cross, 4 <sup>th</sup> T Block, Jayanagar, Bangalore -41.	Release of Advertisement on Environment related issues.	26/08/2008	Rs.1,500/-
30	Editor Hosa Digantha-kannada Daily #.1/1, Babhuraa Deshpande Memorial hall, 8 <sup>th</sup> main, 6 <sup>th</sup> cross, Malleshwaram,	Release of Advertisement on Environment related issues.	26/08/2008	Rs.5,000/-
31	Editor Vijaya Karnataka Daily, #.3, KCCF Compound, opp, Kannada Sahithya parishat, Chamrajpet,	Release of Advertisement on Environment related issues.	26/08/2008	Rs.40,000/-



32	Bangalore-560018. The Director Bangalore Kidney Foundation, #.489, 39 <sup>th</sup> cross, 8 <sup>th</sup> Block, Jayanagar, Bangalor-560082.	Release of Advertisement on Environment related issues.	12/09/2008	Rs.5,000/-
33	Secretary All India Deaf Bank Employees Association, #.J-120, Kirti Nagar, New Delhi -110015.	Release of Advertisement on Environment related issues.	12/09/2008	Rs.1,500/-
34	Editor Vanasuma- patrike, Shubhas Nagara, Mandya-571401.	Release of Advertisement on Environment related issues.	12/09/2008	Rs.5,000/-
35	Editor Rajya Sarkari Nowkarara patrike, #.161,4 <sup>th</sup> cross, 80 feet Road, Jhothinagar, Chadra Layout, Bangalore-72.	Release of Advertisement on Environment related issues.	12/09/2008	Rs.5,000/-
36	President Loka Shikshna Trust (Samyukta Karnataka) #. 2, Residency Road, Bengalooru -560097.	Release of Advertisement on Environment related issues.	12/09/2008	Rs.10,000/-
37	Editor Viyartha Sankalpa,-patrike, #.31,2 <sup>nd</sup> Floor, 3 <sup>rd</sup> cross, Malleshwaram, Bangalore-03.	Release of Advertisement on Environment related issues.	20/09/2008	Rs.2,000/-
38	The Editor Veervani –Marathi weekly, (Jana Kalyana Trust,) #.3414, Gondhali Galli, Belgaum -590001.	Release of Advertisement on Environment related issues.	04/11/2008	Rs.2,000/-
39	Chairman Central Executive committee Karnataka State Forest Sports Board, Aranya Bhavan Malleshwaram,18 <sup>th</sup> cross, Bangalore -560003.	Release of Advertisement on Environment related issues.	04/11/2008	Rs.5,000/-
40	Editor Sarkari Noukarara vani-	Release of Advertisement on Environment related issues.	04/11/2008	Rs.5,000/-



	Monthly,#.16/1, F cross, Pipeline, Malleshwaram, Bangalore -560003.			
41	The Editor Sidilu-kannada Monthly #.1447,17 <sup>th</sup> Cross, Kumarswamy Layout, J.P.Nagara, Bangalore-78.	Release of Advertisement on Environment related issues.	04/11/2008	Rs.1,000/-
42	The Editor Udyamadarshi –Kannada monthly, Nataraja Road, Opp.Syndicate Bank, Sirsi Uttara Kannada.Dist.	Release of Advertisement on Environment related issues.	07/11/2008	Rs.5,000/-
43	Secretary &Editor Environ Friend Institute, #.C-602, Silver Tower, Thakur complex,Kandivli(E) Mumbai-400101.	Release of Advertisement on Environment related issues.	10/11/2008	Rs.5,000/-
44	President Mahila Jagruta Parishath, Byrappa Black, Tyagarajanagara, Bangalore-28.	Release of Advertisement on Environment related issues.	17/11/2008	Rs.5,000/-
45	The Editor Bangalore Traffic News– Monthly, #.6, Purushotham Road, Halasuru, Bangalore -560008.	Release of Advertisement on Environment related issues.	18/11/2008	Rs.5,000/-
46	Secretary Press Club of Bengalooru Cubbon park, Bengalooru-560001.	Release of Advertisement on Environment related issues.	19/11/2008	Rs.6,000/-
47	The Editor Vidhi Karnataka - Kannada monthly,#.4278, Cowdappa compound, 17 <sup>th</sup> Ward, Vijayapura, Bangalore Rural -562135.	Release of Advertisement on Environment related issues.	20/11/2008	Rs.1,000/-
48	Editor Shatamana –Kannada Monthly #.3,1 <sup>st</sup> main , Shivananda nagara,	Release of Advertisement on Environment related issues.	20/11/2008	Rs.1,000/-



	Bangalore-560072.			
49	The cultural Secretary, Students Association, Bangalore Medical College & Research Institute, Bangalore -560002.	Release of Advertisement on Environment related issues.	25/11/2008	Rs.15,000/-
50	Organizing Secretary Department of Zoology, Christ University, Hosur Road, Bengalooru-29	Release of Advertisement on Environment related issues.	26/11/2008	Rs.3,000/-
51	The Editor Hosathu - Kannada monthly, Embassy Center #.11, Crescent Road, Kumara park East, P.B. No.5159, Bangalore -01.	Release of Advertisement on Environment related issues.	11/12/2008	Rs.4,000/-
52	The Editor Uddaraka- Monthly, #.2, Black No.2, K.G.S. Quarts, Govindarajanagara, Magadi Road, Bangalore-79.	Release of Advertisement on Environment related issues.	23/12/2008	Rs.5000/-
53	The Editor Khadi Herald- Fortnightly, Annagalpura village, Dodda Gubbi Hobali, Hosakote-taluk, Bangalore-Rural District.	Release of Advertisement on Environment related issues.	23/12/2008	Rs.2,000/-
54	The Secretary Kalaranga, #.44-45, Avalahalli Layout, 50,feet Road, 1 <sup>st</sup> main, Nehru Road, Girinagar, Bengalooru-560085.	Release of Advertisement on Environment related issues.	30/12/2008	Rs.1,000/-
55	Editor Kannada prabha –Daily #.1, Express Building, Queens Road, Bangalore-01.	Release of Advertisement on Environment related issues.	30/12/2008	Rs.10,000/-
56	Secretary Academy of common wealth Education & Humanities studies,#.1,	Release of Advertisement on Environment related issues.	0/12/2008	Rs.9,600/-



	Vokkaligara Bhavana Building, Bangalore-560027.			
57	The Secretary Sree Ramaseva Mandali, #.21/1, S.V.Narayanaswamy Rao Marg, Chamarajpet, Bangalore-560018	Release of Advertisement on Environment related issues.	17/01/2009	Rs.5,000/-
58	The Editor Namma Maneya geleyaru, #.15/4,14 <sup>th</sup> main,4 <sup>th</sup> Block, Nandini Layout, Bangalore-96.	Release of Advertisement on Environment related issues.	17/01/2009	Rs.10,000/-
59	President Karnataka pradesha yuvaka Raitha Samaja, Krushi Bhavana, Nrupathunga Road, Bangalore-01.	Release of Advertisement on Environment related issues.	17/01/2009	Rs.5,000/-
60	The Editor Siddhaganga- Kannada Monthly, (Centenary Commemorative Special Issue) Siddhaganga Math Tumkur-572104. .	Release of Advertisement on Environment related issues.	17/01/2009	Rs.5,000/-
61	The Editor Kannada Nudi-Monthly, (Kannada Sahithya parishat) Chamarajapet, Bangalore-18. Release of Advertisement on Environment related issues.		17/01/2009	Rs.12,000/-
62	The Secretary Karnataka State Industries Directory-2008, Room.No:342, 3 <sup>rd</sup> Floor, Vidhana Soudha, Bengalooru-560001.	Release of Advertisement on Environment related issues.	23/01/2009	Rs.18,972/-
63	The Editor State Education Directory #.83/2, 1 <sup>st</sup> main Road, Magadi Main Road Govindarajanagara, Bangalore-560040.	Release of Advertisement on Environment related issues.	23/01/2009	Rs.12000/-



64	The Editor Karnataka Vaniya-Monthly, J.C.Nagara, Hubli-580020.	Release of Advertisement on Environment related issues.	23/01/2009	Rs.1,500/-
65	President Karnataka Rajya Vokkaligara Directory-(R), Vijayanagara, Bangalore-40.	Release of Advertisement on Environment related issues.	30/01/2009	Rs.5000/-
66	President Bangalore Varadigarara kuta Cubban Park, Bangalore-01.	Release of Advertisement on Environment related issues.	30/01/2009	Rs.20,000/-
67	The Editor Vaidya Loka-Monthly, #.2&3,Janani , 1 <sup>st</sup> Floor, 7 <sup>th</sup> cross, Central Excise Layout, Bengalooru-560094.	Release of Advertisement on Environment related issues	30/01/2009	Rs.2000/-
68	The Secretary Avishkara, #.88, 16 <sup>th</sup> cross, Margosa Road, Malleswaram, Bangalore-03.	Release of Advertisement on Environment related issues.	30/01/2009	Rs.2000/-
69	Vice President KASSIA, 2/106,17 <sup>th</sup> Cross, Magadi Chord Road, Vijayanagara, Bangalore-40.	Release of Advertisement on Environment related issues.	30/01/2009	Rs.16,200/-
70	President Primary School Teacher's Association, 5 <sup>th</sup> main Road, 4 <sup>th</sup> cross, Gandhinagar, Bangalore-560009.	Release of Advertisement on Environment related issues.	30/01/2009	Rs.5,000/-
71	President Karnataka Union of working Journalists (R), Hameed sha complex, Cubbonpet main Road, Bangalore-02	Release of Advertisement on Environment related issues.	31/01/2009	Rs.3,000/-
72	President Kannada Sahithya parishat, Chitradurga.	Release of Advertisement on Environment related issues.	31/01/2009	Rs.5,000/-
73	Chief Editor Paryavarana Vimarsh- Magazine, #.153, (GF) LIG, SaritaVihar, New Delhi-76	Release of Advertisement on Environment related issues.	11/02/2009	Rs.,990/-





74	Director Varsha Creations #.10, New Yediyur post Office Road, Jayanagara, 7 <sup>th</sup> block, Bangalore-560070.	Release of Advertisement on Environment related issues.	11/02/2009	Rs.5000/-
75	Secretary & Editor Environ Friend Institute, #.C-602, Silver Tower, Thakur complex, Kandivli(E) Mumbai-400101.	Release of Advertisement on Environment related issues.	11/02/2009	Rs.5000/-
76	Manager Concern India Foundation, #.104, Ground Floor, St.John's Church Road, Bangalore-560005.	Release of Advertisement on Environment related issues.	11/02/2009	Rs.15,000/-
77	President Karnataka Rajya kalavidara kalyana vedike, #.34/1, 8 <sup>th</sup> main, 3 <sup>rd</sup> cross, Mathikere, Bangalore-560054.	Release of Advertisement on Environment related issues.	11/02/2009	Rs.2000/-
78	The Editor Udayavani-(Special Issue) Udayavani Building, Manipal -576104.	Release of Advertisement on Environment related issues.	18/03/2009	Rs.50,000/-
79	The Editor Sudha- (Ugadi special-2009) #.75, M.G.Road, Bangalore -560001.	Release of Advertisement on Environment related issues.	18/03/2009	Rs.25,000/-
80	The Editor Taranga Ugadi-Special Issue, Udayavani Building, Manipal -576104.	Release of Advertisement on Environment related issues.	24/03/2009	Rs.20,000/-
81	The Editor Stree Jagruti-Kannada Monthly, #.60, 3 <sup>rd</sup> cross, Gavipuram Extn, Bangalore-560019.	Release of Advertisement on Environment related issues.	24/03/2009	Rs.2000/-



## ANNEXURE- XIX

### List of training programs and workshops attended by the Board Officers during 2008-09

Sl. No.	Name of Programme	Date and place
1	Environment Conclave-2008- Facilitating an Integrated approach for sustainable Waste Management	08.04.08 to 09.04.08, New Delhi
2	Training program on 'Environmental Audit & Statement Gujarath	18.04.08 to 19.04.08,
3	Conference on 'Global warming and sustainable development'	21.04.08 to 22.04.08, New Delhi
4	HRD programme Bangalore	23.05.08 to 24.05.08,
5	Water Quality and its Management New Delhi	07.07.08 to 11.07.08,
6	Training course on 'ICT Tools for information Management in Government'	14.07.08 to 25.07.08, Bangalore
7	Clean Development Mechanism and Carbon Trading in India	18.07.08, New Delhi
8	Bio Medical Waste Management - Handling and Safe disposal options	28.07.08 to 30.07.08, Hyderabad
9	Summit on 'Clean Development Mechanism and Carbon Trading in India'	11.11.08 to 15.11.08, New Delhi
10	Air Quality modeling Kanpur	04.08.08 to 08.08.08,
11	Interaction meet on Bio-medical Waste Management	08.08.08, New Delhi
12	Conference on 'the techno commercial aspects of waste based power projects in steel industries'	01.08.08, Bangalore
13	Training program on 'Environmental Impact Assessment	12.08.08, Bangalore
14	State- Level Seminar 'People's participation in Sanitation solutions'	02.08.08, Bangalore
15	National Workshop on Emerging Issues in Chemical Safety and Management	08.08.08, New Delhi
16	Air Quality Monitoring Network design, Sampling, Analysis and Quality Assurance	26.08.08 to 30.08.08, Haridwar
17	Environmental Impact Assessment, 2006	26.08.08, Bangalore
18	Workshop on 'Urban air quality management: New directions	16.09.08, New Delhi



19	2 <sup>nd</sup> Business Leaders Programme on 'Strategies & Leadership for creating Sustainable Organizations training programme'	15.09.08 to 19.09.08, Rajasthan
20	Contaminated Groundwater Monitoring and Soil Assessment	15.09.08 to 19.09.08, Hyderabad
21	Municipal Solid Waste management	22.09.08 to 26.09.08, Uttaranchal
22	Tungabhadra Stakeholder workshop	30.09.08 to 01.10.08, Bangalore
23	Rerolling Mills	21.10.08 to 24.10.08, Bangalore
24	Hazardous Waste, Batteries Waste & E- Waste Management	13.11.08 to 15.11.08, Roorkee
25	Handling of Hazardous, Toxic and/or flammable chemicals and use of material safety data sheets (MSDS)	26.11.08, New Delhi
26	Understanding EIA from screening to decision making	11.11.08 to 15.11.08, New Delhi
27	Treatment and Reuse of Textile Industry Effluents	10.12.08 to 12.12.08, New Delhi
28	Development and Environmental Issues	01.12.08 to 05.12.08, Mysore
29	'Interaction meet on Bio-medical Waste Management'	
30	'Conservation & Management of Lakes and Rivers'	10.12.08 to 14.12.08, IIT, Roorkee
31	Pollution Control in Slaughter House	05.01.09 to 07.01.09, Bangalore
32	National seminar on 'Lead acid batteries- Technology & applications	18.02.09 to 19.02.09, Bangalore
33	Workshop on 'Emerging trends in Environmental Biotechnology'	12.01.08 to 14.01.08, Mangalore
34	'Clean Air Imperatives in South Asian Cities with Special Focus on Vehicles and Urban Transport'	02.03.09 to 06.03.09, New Delhi



## ANNEXURE- XX

### Abstract of Legal cases as on 31.03.2009 (From inception)

#### 1. Criminal/ Criminal Misc. cases filed by the Board in JMFC/CJM courts

I.	Cases filed since the inception	397
II.	Cases disposed since the inception	114
III	Cases pending	283

#### 2. Writ Petitions & Writ Appeals before the High Court of Karnataka

I	Cases filed since the inception	968
II	Cases disposed since the inception	834
III	Writ Petitions pending	162

#### 3. Appeals before the Appellate Authority under the Water/ Air Act

I	Cases filed since the inception	192
II	Cases disposed since the inception	180
III	Appeals pending	12

#### 4. PIL cases pending before the Hon'ble Supreme Court of India

I	Cases filed since the inception	16
II	PIL disposed	10
III	PIL cases pending	06

#### 5. Status of closure orders issued as on 1.4.2008 to 31-03-2009.

I	Closure order under Water Act	21
II	Closure order under Air Act	57
III	Closure order issued under EP Act	07



## ANNEXURE -XXI

### KARNATAKA STATE POLLUTION CONTROL BOARD

Church street , Bangalore

#### RECEIPTS & PAYMENTS ACCOUNT FOR THE YEAR ENDED 31.03.2009

RECEIPTS :	As on 31.03.2009 Rs.	As on 31.03.2008 Rs.
<b>OPENING BALANCES :</b>		
Cash in Hand	14497	5879
Cash at SBM Current Account		-
Cash at Corporation bank Cess Account	1831669	4852875
Corporation Bank- Grant in Aid Account	5030701	2679761
Fixed Deposits at Bank	989801000	705100000
Corporation Bank M.G.Road	55307967	43499275
Guarantee Money Deposit		-
Corp Classic Account	2256462	2851130
Eco Development Fund	3310655	3197754
SBM-Eco flag	9779	9452
Cash at SBM (WBP)	6057813	55792
Non-Operative Accounts of RO's	95944	95944
DD's In transit	1767130	548071
Margin Money With Corporation Bank M.G.Road		
	<b>1065483616</b>	<b>762895933</b>
<b>I GRANTS RECEIVED :</b>		
<b>A <u>Capital Grants from :</u></b>		
Interest on WBP Grants	213231	36767
	<b>213231</b>	<b>36767</b>
<b>B <u>Revenue Grants from :</u></b>		
Central Govt. (CPCB) for bio-mapping	165000	350000
Central Govt. (CPCB) for sep CPCB	169211 3300000	2000000
	<b>3634211</b>	<b>2350000</b>
<b>II CESS COLLECTION - GOI</b>	32285996	30460948
<b>III CESS REIMBURSEMENT FROM CENTRAL GOVT.</b>	20344000	14859200
<b>IV FEES :</b>		
Consent fees and NOC	323421481	311879893
Monitoring and Analysis Charges	8779041	10250863
Cess Appellate Fee	650	500



CETP membership fees	444100	1007462
Environment fees	25500	156500
Lab Empanelment fee		130000
Administrative charges	24093500	14793650
HWM Fee	1052	30000
	<b>356765324</b>	<b>338248868</b>
<b>V INTEREST ON INVESTMENTS :</b>		
Fixed deposits	87055908	58966769
Savings Bank Account	263669	427486
Staff Advance	1213418	1509913
	<b>88532995</b>	<b>60904168</b>
<b>VI RECOVERY OF ADVANCES :</b>		
Festival Advance	323750	249160
Motor Cycle Advance	2255933	1564745
Imprest	560066	448928
CPF loan	97834	110122
House Building Advance	1478716	1512520
Computer Advance	232923	559962
Solar Heater Advance	6900	6900
Travelling advance	16236	322144
Medical Advance	76000	100000
Grant CPCB		-
BRS Sus a/c		3005
LOC Accounts rendered by RO/DO	38826933	88726752
	<b>43875291</b>	<b>93604237</b>
<b>VII OTHERS :</b>		
<b>A OTHER REVENUES</b>		
Penalty and Others	474229	61305
Sale of Tender Forms	986950	276450
Sale of tech / Act Book	2300	56350
ECO flag receipts		-
Miscellaneous receipts	53996	23478
Building rent (KSPCB)	4157866	3324703
House rent recovery	262200	207718
Right to Information Act Fee	26089	25155
Public hearing Fee	89840	35380
Biomedical Waste Fees	80000	
Forfeiture of GMD	3300000	
	<b>9433470</b>	<b>4010539</b>
<b>C OTHER DEDUCTIONS :</b>		
Sales Tax Bills	896333	453733
Tax Deducted at Source - Bills	1241673	831908



Income Tax	1437640	736410
Professional Tax	701080	192920
Salary Deductions	5754437	2228135
Royalty		-
Bank Loan		271001
	<b>10031163</b>	<b>4714107</b>

**VIII DEPOSITS**

EMD / Security Deposits / FSD/STP	265175199	52514357
Guarantee Money Deposit Collected from Industries	4225000	5645487
Refundable Deposit	5000	305903
Performance guarantee money	9952	
Reserve Fund	13159	99003
	569850	
	<b>269998160</b>	<b>58564750</b>

**IX CAPITAL RECEIPTS :**

Fixed Assets	75000	777144
	75000	777144

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**1900672456                      1371426659**

<b>PAYMENTS :</b>	<b>As on 31.03.2009 Rs.</b>	<b>As on 31.03.2008 Rs.</b>
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**I CAPITAL INVESTMENTS :****A FIXED ASSETS**

Land & Building	72313	697038
Building	28865087	9608515
Capital Work -in- Progress		

**B OTHER ASSETS**

Laboratory Equipments & Appliances	111726	86916
Furniture and Fixtures	769399	492773
Electrical Installation		1664451
Office Equipments	3294874	2956632
Vehicle	75933	2501139
Eco Park	49399	-

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**33238731                      18007464**



## II ADVANCES & DEPOSITS

### A ADVANCES

Festival Advance	448000	234000
Computer Advance	40000	40000
House Building Advance	3320000	1376660
CPF Loan		-
Income tax		736410
C.M.Relief Fund		-
Motor Cycle Advance	1847597	1623065
Imprest	574649	463562
TA advance	62091	312380
Medical Advance		176000
Solar heater		10000
Bank Loan		271001
TDS - Investment		18497
GOK Grant Expenditure		<b>231000</b>
GOK Grant Expenditure (TSDF)		-
GOK Capital		1375960
LOC to RO/DO	38773626	88764016
<b>ADHOC PAYMENT</b>		43800

### B DEPOSITS

Performance of Guarantee Money		8848
Refund of Guarantee Money	10000	60000
Refund of EMD/ FSD/STP/Security Deposits	5433782	2189898
Refundable Deposit		566322
Reserve Fund	13159	513012
Electricity Deposit	9547	136660

<b>50532451</b>	<b>99151091</b>
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## III REVENUE EXPENDITURE

### A ADMINISTRATIVE EXPENSES :

Officers' Pay	1945021	1805142
Salaries of Employees	76702448	62735742
Travelling Expenses	2286449	2418229
Sitting Fees & Honorariums	368452	612904
Pensionary Scheme of Board Employees	8311223	8217876
Liveries	309151	448066
Board Contribution to PF & Education Fund	69428	48890
Electricity and Water Charges	5833597	6682840
Manpower Service	13466418	11626174
Mobile Charges	993626	892803
Project Fund	11557930	8432283
Telephone Charges	2175218	2429890
Rent, Rates & Taxes	3674787	4839824





Postage	1009867	1011447
Printing & Stationery	2609175	2636789
Bank charges		21235
Hospitality Charges	471143	496238
Books, Periodicals & Publications	367881	260423
Professional Charges	3060242	2493526
Internal Audit fees	134832	89833
Statutory audit fee	13379	6742
Training Programme	227178	64457
Advertisement	2680027	1463204
Publicity service/public awareness programme	4857437	4437992
Exhibition	305367	361871
World Environment Day	793352	783117
<b>Contingencies</b>	1496899	1721974
	<b>145720527</b>	<b>127039511</b>

#### Repairs & Maintenance of :

Laboratory Maintenance	3336280	2282086
Vehicle maintenance	6840711	6806943
Vehicle hiring	6387461	5822312
Building Maintenance	2795732	2113686
Office equipments	1823844	1724469
Maintenance of ECO park	1454642	521000
CETP Maintenance	41402	561439
Furniture & Fixture Maintenance	72668	11050
	<b>22752740</b>	<b>19842985</b>

#### IV MISCELLANEOUS EXPENSES :

Study On Ferti-irrigation		-
Study	283556	75300
Contribution	56832	26871
Sundry creditors (KIADB)	20000000	-
CPCB (SEP)	30741	136509
CPCB Bio-maping	162280	107700
CPCB grant		-
Public hearing program	11465	-
Cess Reimbursement E&O Expenses		3714800
Cess Reimbursement PCM Expenses	3500000	-
BRS sus account	102803	-
	<b>24147677</b>	<b>4061180</b>

#### V OTHER REMITTANCES :

Sales Tax	758228	509895
Tax Deducted at Source Remittance	1242531	848289



Royalty		429
Income tax	1437640	
Professional Tax	637880	192520
Salary deduction Remittances	5393584	2212757
Cess remittance - GOI	33360162	34077000
	<b>42830025</b>	<b>37840890</b>

#### VI CLOSING BALANCES :

Cash in Hand	11729	14497
Cash at Corporation bank Cess Account	121618	1831669
Corporation Bank- Grant in Aid Account	8429246	5030701
Fixed Deposits at Bank	1534700000	989801000
Corporation Bank M.G.Road	18484648	55307890
Corp Classic Account	2892631	2256462
Eco Development Fund	3427541	3310655
SBM-Eco flag	9779	9779
Cash at SBM (WBP)	6271044	6057813
Non-Operative Accounts of RO's	95944	95944
DD's In transit	7006128	1767130
	<b>1581450307</b>	<b>1065483539</b>
	<b>1900672456</b>	<b>1371426659</b>



### ABBREVIATIONS

AAQ	:	Ambient Air Quality
ADB	:	Asian Development Bank
APC	:	Air Pollution Control
BOD	:	Biochemical Oxygen Demand
BT	:	Bio Technology
CAO	:	Chief Administration Officer
CETP	:	Common Effluent Treatment Plant
CFE	:	Consent for Establishment
COD	:	Chemical Oxygen Demand
CPCB	:	Central Pollution Control Board
CFO	:	Chief Finance Officer
CSO	:	Chief Scientific Officer
DEE	:	Department of Ecology and Environment
DEPA	:	District Environmental Protection Authority
EIA	:	Environmental Impact Assessment
EMPRI	:	Environment Management and Policy Research Institute
ETI	:	Environmental Training Institute
GEMS	:	Global Environmental Monitoring System
GIS	:	Geographical Information System
Gol/GOI	:	Government of India
GoK/GOK	:	Government of Karnataka
HCE	:	Health Care Establishment
ISO	:	International Standards Organization
IT	:	Information Technology
KIADB	:	Karnataka Industrial Areas Development Board
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 Government Organization
NIC	:	National Informatics Centre
NOX/NO <sub>x</sub>	:	Oxides of Nitrogen
NRAP	:	National River Action Plan
NRCD	:	National River Conservation Directorate
RSPM/RPM	:	Respirable Suspended Particulate Matter
SEO	:	Senior Environmental Officer
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