

# **ANNUAL REPORT 2008-09**

**Karnataka State Pollution Control Board**

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



## CONTENTS

|                  |   | <u>Page No.</u> |
|------------------|---|-----------------|
| <b>Chapter 1</b> |   |                 |
| 1.1              | : Introduction  | 1               |
| 1.2              | : The major environmental legislations and its objectives.  | 2               |
| 1.3              | : Strengthening of Infrastructure facility  | 6               |
| 1.4              | : Karnataka Urban Development and Coastal Environmental (KUDCEM) Project (ADB funded) during 2008-2009. | 7               |
| <b>Chapter 2</b> |   |                 |
| 2.1              | : Constitution of the State Board including changes   | 7               |
| 2.2              | : Functions of the State Board  | 8               |
| 2.3              | : Organisational Structure  | 10              |
| 2.4              | : Laboratory.   | 10              |
| <b>Chapter 3</b> |   |                 |
| 3.1              | : Committees constituted by the Board   | 11              |
| <b>Chapter 4</b> |   |                 |
| 4.0              | : Meetings of the Board and major decisions taken   | 11              |
| 4.1              | : Meetings of the Technical Advisory Committee (TAC)  | 13              |
| 4.2              | : Library and Laboratory Committee  | 17              |
| 4.3              | : Awareness Committee   | 18              |
| 4.4              | : Legal Advisory Committee  | 18              |
| 4.5              | : Committee for issue of authorization under Municipal Solid Waste Management Rules                     | 19              |
| <b>Chapter 5</b> |   |                 |
| 5.0              | : Activities of the Board during 2008-09  | 20              |
| 5.1              | : Consent administration  | 20              |
| 5.2              | : Environmental Public Hearing  | 21              |
| 5.3              | : Environmental monitoring  | 22              |
| 5.4.1(a)         | : River water quality monitoring  | 22              |
| 5.4.1.(b):       | : Bio-mapping of Tunga Bhadra River   | 24              |
| 5.4.2            | : Ambient Air Quality Monitoring (AAQM)   | 24              |
| 5.5              | : Noise Pollution Control   | 30              |
| 5.5.1            | : Ambient Noise Monitoring during Deepavali 2008  | 31              |



## Chapter 6

|        |   |  |    |
|--------|---|--|----|
| 6.0    | : | Present state of environmental problems & counter measures   | 34 |
| 6.1    | : | Environmental compliance of some of the identified industrial sectors  | 35 |
| 6.1a)  | : | Pollution Control Status in Mining Sector  | 35 |
| 6.1b)  | : | Pollution Control Status in Sponge Iron Sector   | 37 |
| 6.1c)  | : | Pollution Control Status in Distillery Sector  | 38 |
| 6.1d)  | : | Status of coffee pulping units   | 40 |
| 6.2    | : | Pollution control measures   | 41 |
| (A)    | : | Consent status   | 41 |
| (B)    | : | Personal Hearings  | 42 |
| (C)    | : | Details of inspections conducted   | 43 |
| (D)    | : | Regional office wise newly identified organisations  | 44 |
| (E)    | : | Complaints redressel   | 45 |
| 6.3    | : | Status of 17 category highly polluting industries  | 45 |
| 6.3.1  | : | Charter of Corporate Responsibility for Environment Protection (CREP)  | 45 |
| 6.3.2  | : | Promotion of ISO 14000 standards.  | 46 |
| 6.4    | : | Implementation of Hazardous Waste (Management, Handling & Transboundary Movement) Rules, 2008                        | 46 |
| 6.4.1  | : | Quantity of hazardous waste  | 47 |
| 6.4.2  | : | Common hazardous waste Treatment, Storage & Disposal facility in Karnataka   | 49 |
| 6.5    | : | Implementation of Batteries (Management & Handling) Rules, 2001  | 50 |
| 6.6    | : | Status of Brick kilns  | 51 |
| 6.7    | : | Status of implementation of fly ash Notification   | 52 |
| 6.7.1  | : | Status of power plants with respect to utilization of fly ash generated  | 52 |
| 6.8    | : | Implementation of Bio-Medical Waste (Management & Handling) Rules, 1998  | 53 |
| 6.8.1  | : | Authorization status   | 53 |
| 6.8.2  | : | Compliance to authorization conditions   | 53 |
| 6.9    | : | Regional office wise status of authorization of Health Care Establishments (HCEs)                                    | 54 |
| 6.9.1  | : | Steps taken by the Board to implement the rules effectively.   | 55 |
| 6.9.2  | : | Common Bio medical waste treatment and disposal facility   | 55 |
| 6.10   | : | Plastics Manufacture, Sale & Usage Rules as Amended 2003   | 56 |
| 6.10.1 | : | Action taken by the Board under the Plastic Rules  | 57 |
| 6.11   | : | Municipal Solid Waste ( Management & Handling) Rules, 2000   | 58 |
| 6.11.1 | : | Action taken up by the DMA for speedy implementation of SWM, with due respect to the Supreme Court guidelines on SWM | 60 |
| 6.12   | : | National River Conservation Plan   | 61 |



|                   |  |    |
|-------------------|--|----|
| 6.12.1            | : Summary of National River Action Plan (NRCP)                               | 62 |
| 6.12.2            | : Summary of allocation of funds under NRCP                                  | 62 |
| 6.13              | : Water Cess   | 65 |
| 6.14              | : E-Governance related activities of the Board                               | 65 |
| 6.15              | : IVRS for complaint registration  | 66 |
| 6.16              | : Spatial Environmental planning   | 67 |
| 6.17              | : Helpdesk at Bangalore  | 68 |
| 6.18              | : Training programmes/ Seminars attended by Board Officers<br>during 2008-09 | 68 |
| 6.19              | : Awareness programmes & other functions organized by the Board              | 69 |
| 6.20              | : Submission of 'Environmental Statement'                                    | 71 |
| <b>Chapter 7</b>  |  |    |
| 7.0               | : Prosecutions launched & convictions secured                                | 72 |
| 7.1               | : Important Judgements   | 72 |
| <b>Chapter 8</b>  |  |    |
| 8.0               | : Finance & Accounts of the State Board                                      | 74 |
| <b>Chapter 9</b>  |  |    |
| 9.0               | : Visits to the State Board by dignitaries                                   | 74 |
| <b>Chapter 10</b> |  |    |
| 10.0              | : Other matters dealt with by the Board                                      | 75 |
| 10.1              | : Follow up of the Annual plan for the year 2008-09                          | 75 |
| 10.2              | : Highlights of the Board activities during 2008-09                          | 76 |
| 10.3              | : Annual Action plan for the year 2009-10                                    | 77 |
| 10.4              | : Right to information Act 2005  | 77 |



## ANNEXURE INDEX

| Annexure No.      | Particulars  | Page No |
|-------------------|--|---------|
| ANNEXURE – I      | Organization Chart of KSPCB  | 78      |
| ANNEXURE - II     | Roles and responsibilities of Senior Environmental Officers at zonal level & the roles and responsibilities of Regional Officers | 79      |
| ANNEXURE-III      | Addresses of Offices of the Board  | 83      |
| ANNEXURE- IV      | Staff Position of K.S.P.C.B as on 31.3.2009  | 91      |
| ANNEXURE-V(A)     | <b>‘Technical Advisory Committee’ members</b><br>(upto January 2009)   | 93      |
| ANNEXURE-V(B)     | ‘Technical Advisory Committee’ members<br>(From February 2009)   | 94      |
| ANNEXURE- VI-A    | ‘Library and Laboratory Committee’ members<br>(upto January 2009)  | 95      |
| ANNEXURE- VI- B   | ‘Library and Laboratory Committee’ members<br>(From February 2009)   | 95      |
| ANNEXURE- VII- A  | Awareness Committee members<br>(upto January 2009)   | 95      |
| ANNEXURE- VII B   | Awareness Committee members<br>(From February 2009)  | 96      |
| ANNEXURE VIII     | Categorisation of Industrial sectors as Red,<br>Orange and Green   | 98      |
| ANNEXURE – IX     | Consent Fee Structure  | 110     |
| ANNEXURE- X (A)   | <b>State Level Consent Committee</b><br>(Consent for Establishment and Expansion)<br>(upto February 2009)                        | 111     |
| ANNEXURE- X (A-1) | State Level Consent Committee<br>(Consent for Establishment and Expansion for EIA<br>Category Projects) (From March 2009)        | 111     |
| ANNEXURE- X-B     | <b>State Level Consent Committee</b><br>(Consent for Operation & Authorizations)<br>(Upto February 2009)                         | 112     |
| ANNEXURE- X-B-1   | State Level Consent Committee<br>(Consent for Operation & Authorizations)<br>(From March 2009)                                   | 112     |
| ANNEXURE- X-C     | State Level Consent Committee<br>(Consent for Establishment and Expansion for Non-EIA<br>category projects) (From March 2009)    | 113     |
| ANNEXURE - XI     | Public Hearings held under EIA Notification 2006.  | 113     |
| ANNEXURE- XII     | Details of samples analyzed during the year 2008-2009.   | 119     |



|                   |  |     |
|-------------------|--|-----|
| ANNEXURE XIII- A  | Classification of river water quality under GEMS programme for 2008-2009                         | 126 |
| ANNEXURE XIII- B  | Classification of river water quality under MINARS programme for 2008-09                         | 127 |
| ANNEXURE XIII- C  | Classification of river water quality under Board programme for the year 2008-09                 | 130 |
| ANNEXURE-XIV      | General Guidelines for siting of Industries  | 131 |
| ANNEXURE - XV     | Personal hearing held during 2008-2009   | 135 |
| ANNEXURE- XVI     | Summary of pollution control status of 17 Categories of industries in Karnataka as on 31.03.2009 | 144 |
| ANNEXURE- XVII    | Industries authorized to reprocess hazardous wastes in Karnataka                                 | 145 |
| ANNEXURE XVIII-A  | Environmental awareness programmes sponsored by the Board during 2008-09.                        | 152 |
| ANNEXURE XVIII- B | Seminars and workshops sponsored by the Board during 2008-09.                                    | 160 |
| ANNEXURE XVIII- C | Advertisements sponsored by the Board during 2008-09.  | 162 |
| ANNEXURE- XIX     | List of training programs and workshops attended by the Board Officers during 2008-09            | 172 |
| ANNEXURE- XX      | Abstract of Legal cases as on 31.03.2009 (From inception)  | 174 |
| ANNEXURE -XXI     | Receipts & Payments account for the year ended 31-03-2009.                                       | 175 |



## 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> |
|--|--|---|

### 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'.

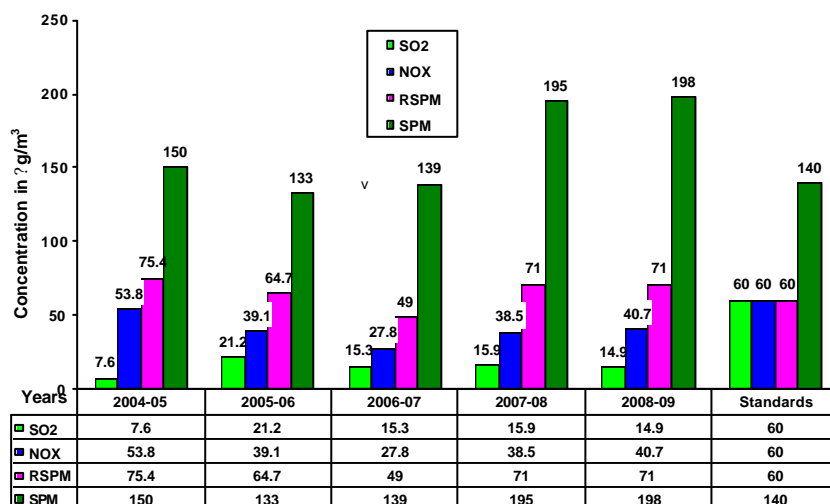
### 5.4.2 Ambient Air Quality Monitoring:

#### 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

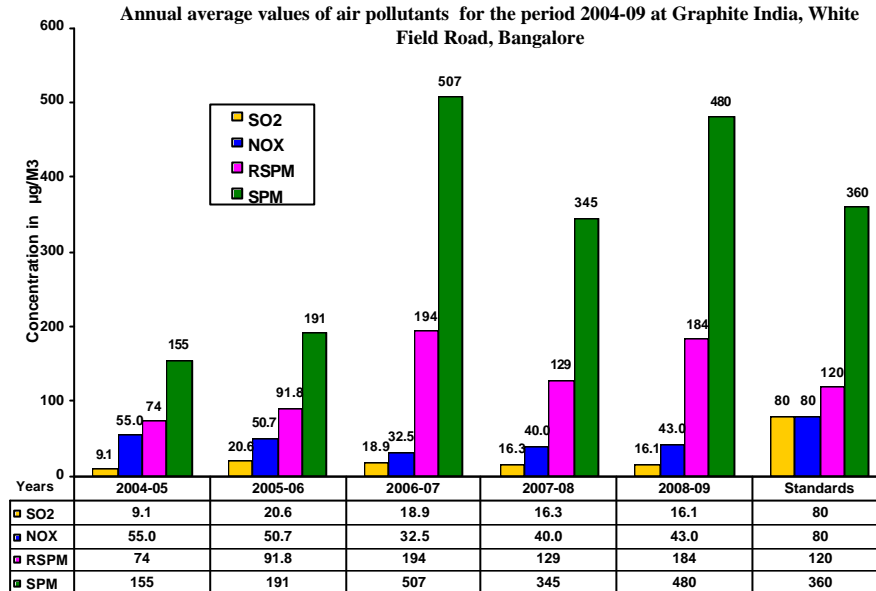
#### Ambient Air Quality at AMCO Batteries, Bangalore

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

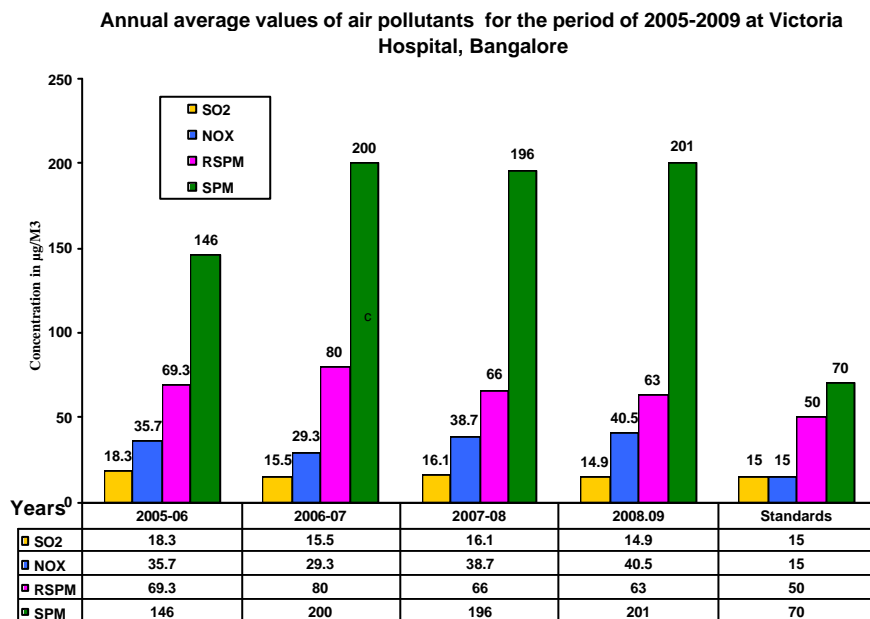




## Ambient Air Quality at Graphite India Ltd., Bangalore



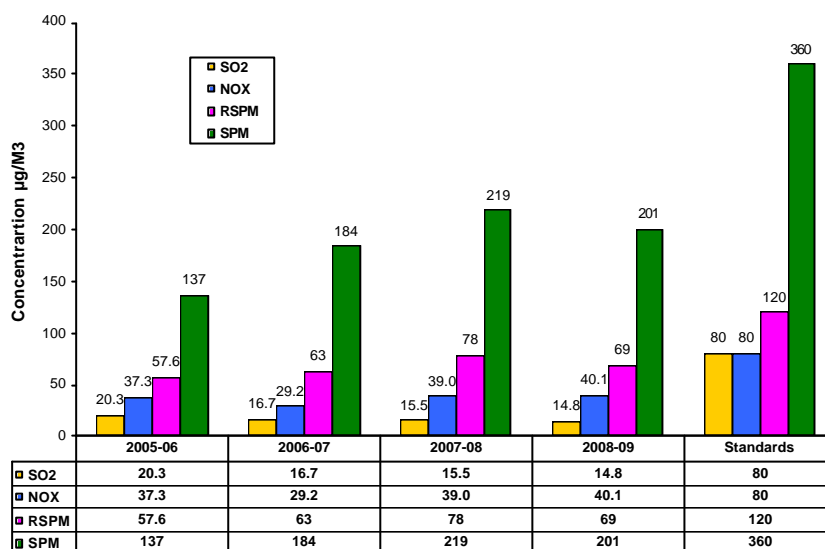
## Ambient Air Quality in Victoria Hospital, Bangalore





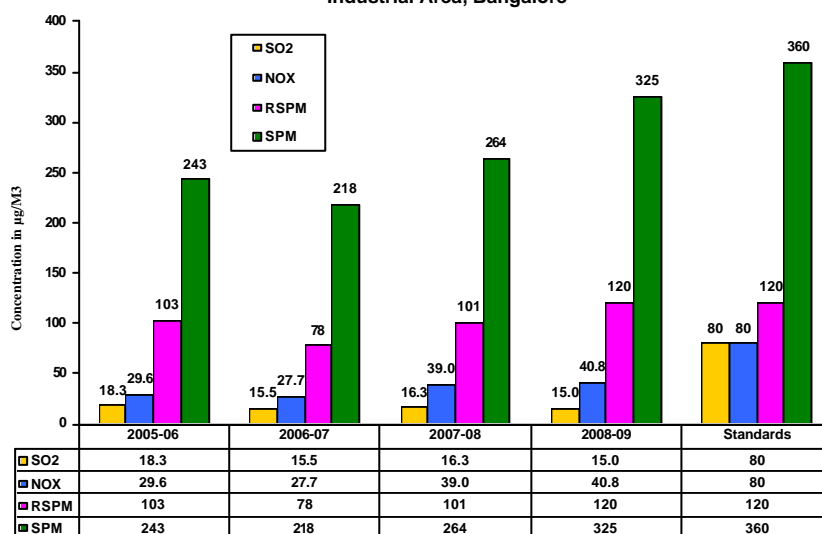
## Ambient Air Quality in KHB Industrial Area, Yelahanka, Bangalore

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



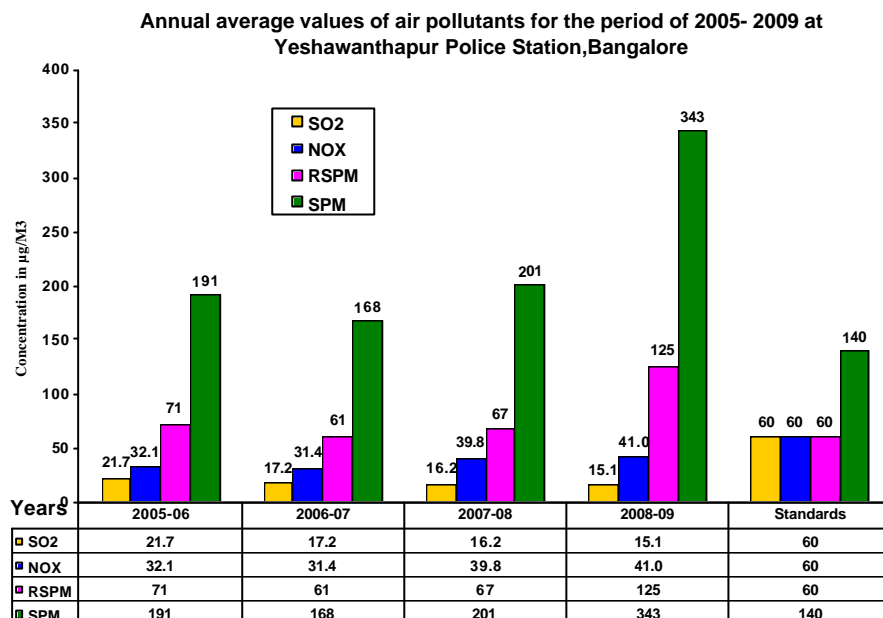
## Ambient Air Quality in Peenya Industrial Area, Bangalore

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

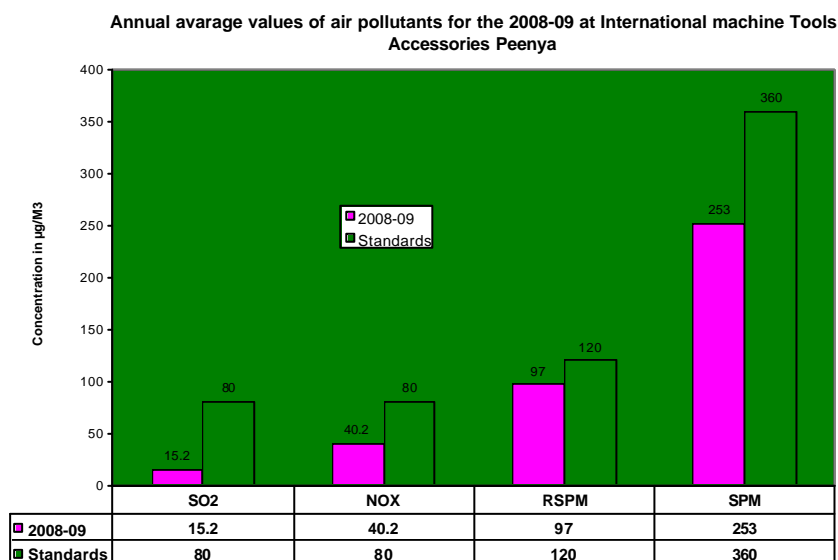




## Ambient Air Quality in Yeshwanthpur Police Station, Bangalore



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                        |



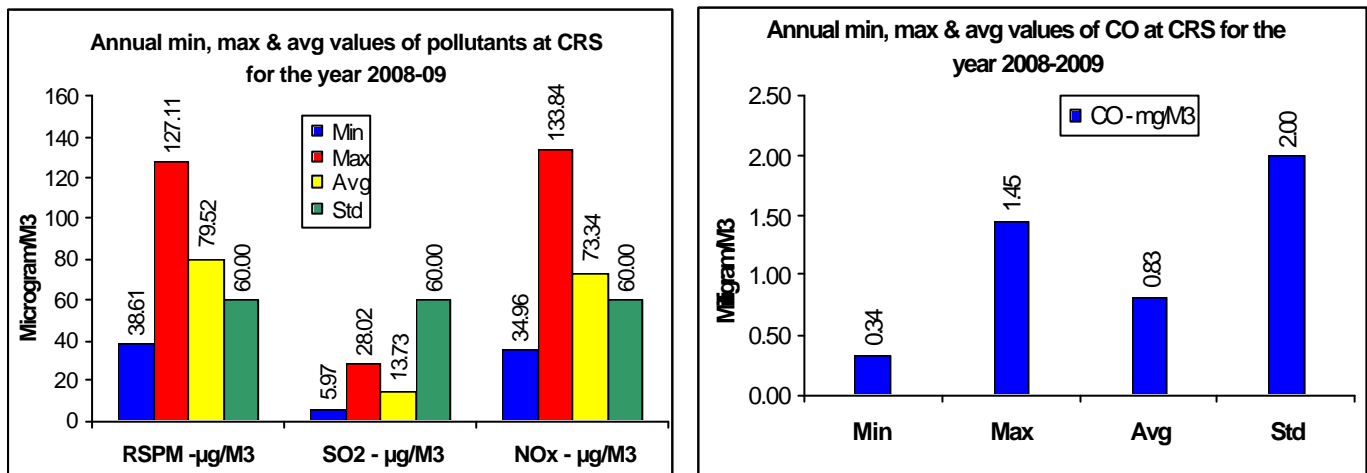
|                      |   |                      |         |                                  |        |     |      |        |        |       |       |
|----------------------|---|----------------------|---------|----------------------------------|--------|-----|------|--------|--------|-------|-------|
| 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 |
| Ranebennur of Haveri | 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  |
| Karwar               | 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 |
|                      | 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

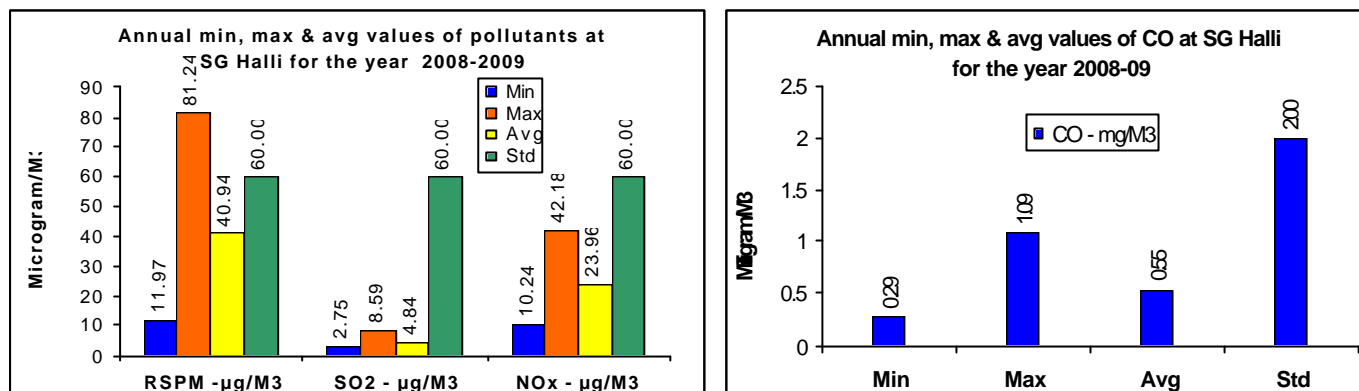


The annual average concentrations of pollutants at City Railways Station are shown in the above **Figures**.

- (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.

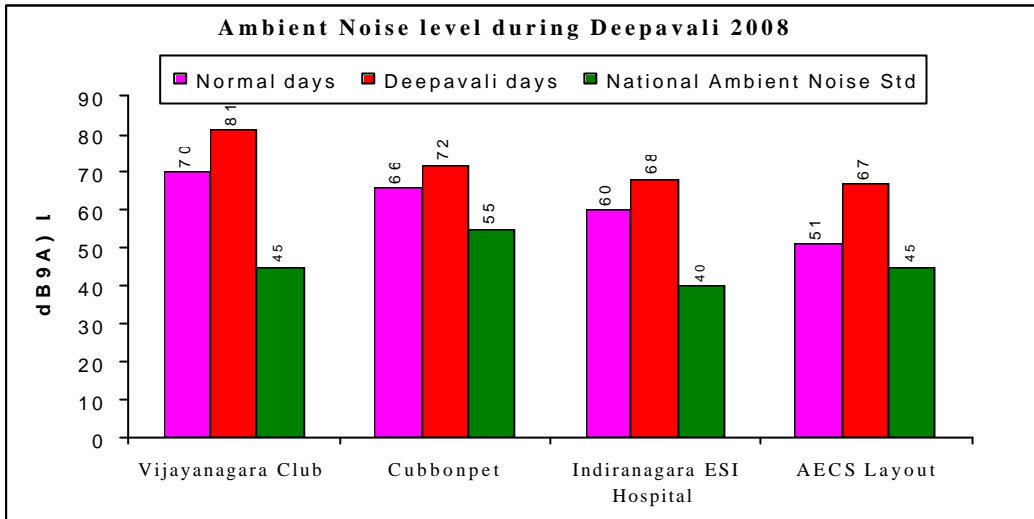
##### **b) Residential Areas (AECS layout and Vijayanagara club),**

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)

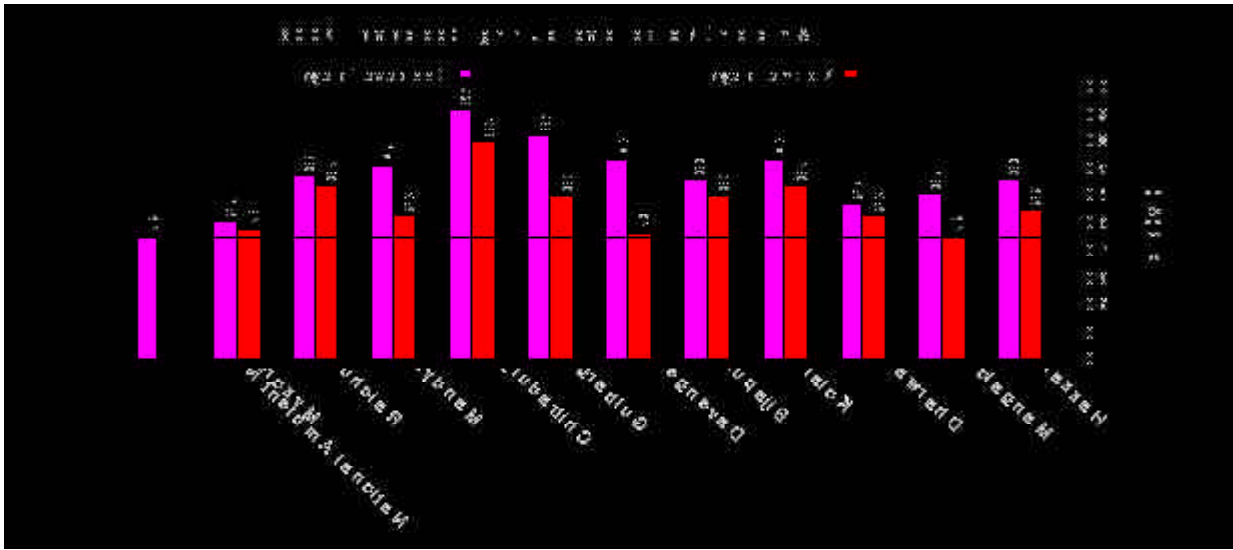
The results of noise measurement before Deepavali and during Deepavali are 60 and 68 dB (A) Leq during night time. The measured values exceeds the prescribed limit of 40 dB(A) before and during Deepavali



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 Deepawali 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<br>01.04.2008 |         | Issued during 01.04.08<br>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<br/>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          | 21          |
| <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.<br>Constructed 10 community toilets.                              | All works completed.<br>Constructed 800 individual toilets and 12 community toilets. | Out of 18 units, 17 units have been completed,<br>No fund to take up the balance work.   | All works completed.<br>Constructed 275 individual toilets and 10 community toilets. | All works completed.<br>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.<br>Seven community toilets are constructed. | Out of 5 community toilets, 4 are completed.<br>No fund to take up the balance work.   |
| Crematoria   | Completed  | Completed  | -  | Completed  | Completed  | -   | Completed  | -  |
| Dobhi Ghat/<br>River Front<br>Development.                     | -  | -  | Completed  | -  | Completed  | -   | -  | -  |
| <b>Bathing Ghat.*</b>  | 2 units.<br>Plastering and plumbing work completed.<br>Work stopped for want of funds. | -  | Construction of one bathing ghat to be taken up<br><b>(recommended to drop the unit)</b> | Completed<br>(Rs.6.46 lakhs)   | -  | Construction of one bathing ghat to be taken up.<br><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<br>(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.



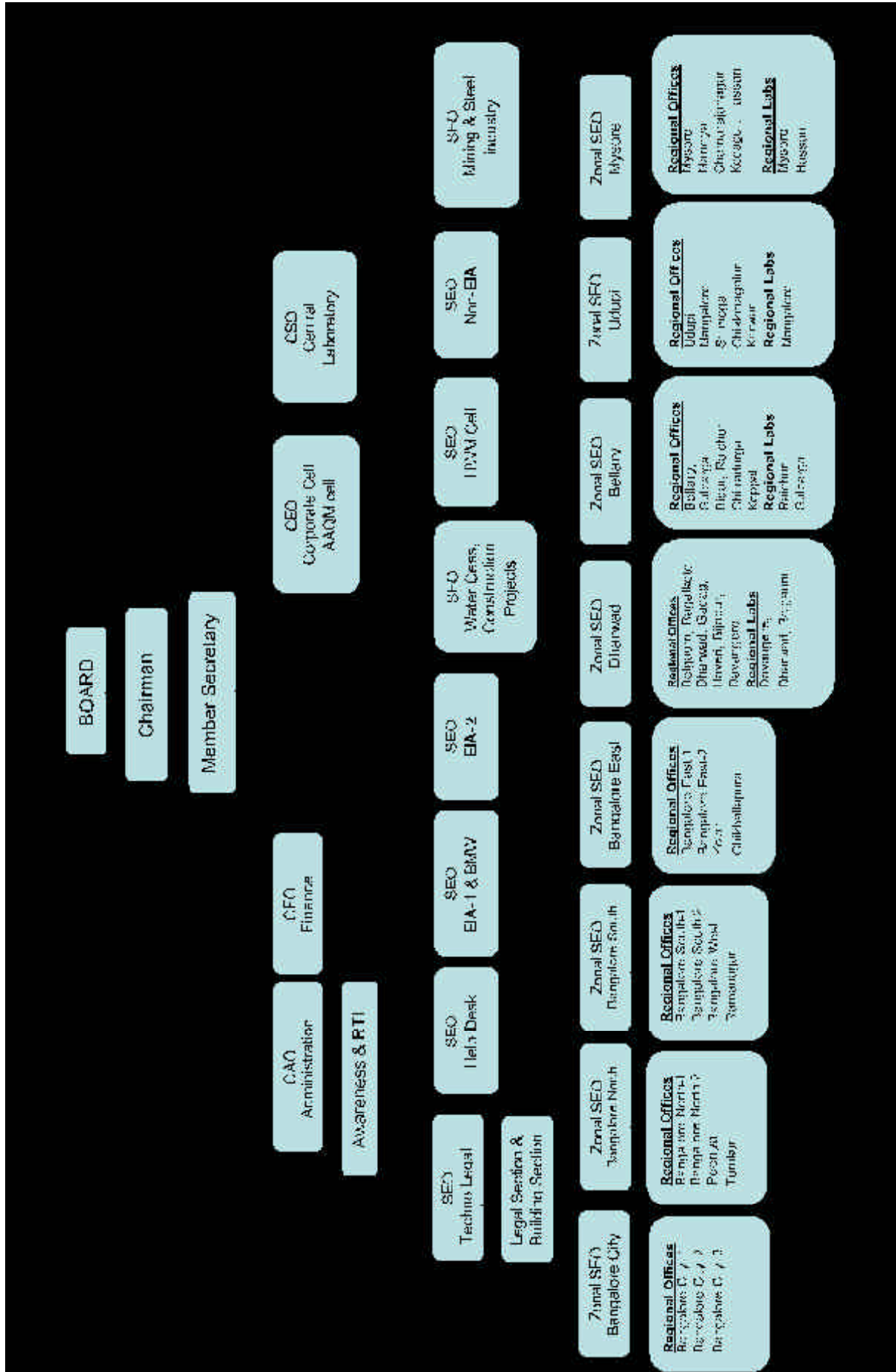
### 10.3 Annual Action plan for the year 2009 – 2010:

- ✍ 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 Ganesha 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<br>4 <sup>th</sup> and 5 <sup>th</sup> Floor, # 49, Church Street, 'Parisara Bhavan', Bangalore -56 0001.<br><a href="http://kspcb.kar.nic.in">http://kspcb.kar.nic.in</a> | 080 - 25588151<br>25588270<br>25586520<br>Fax -080- 25586321 |

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

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



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

### ZONAL OFFICE: BANGALORE NORTH

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

### REGIONAL OFFICES:

|  |              |
|--|--------------|
| Regional Office<br><b>Bangalore North-1</b><br>Karnataka State Pollution Control Board<br>Nisarga Bhavan, 2 <sup>nd</sup> Floor, West Wing,<br>Sanegoravanhalli, Thimmaiah Road, Shivanagar,<br>Opp. Pushpanjali Theatre,<br><b>Bangalore-560 010.</b> | 080-23230770 |
|--|--------------|

|   |              |
|---|--------------|
| Regional Office<br><b>Bangalore North-2,</b><br>Karnataka State Pollution Control Board<br>Urban Eco Park, 100 feet road, 3 <sup>rd</sup> Phase,<br>EMPRI Building, PIA, <b>Bangalore-560 058</b> | 080-28396559 |
|---|--------------|

|  |              |
|--|--------------|
| Regional Office<br><b>Peenya</b><br>Karnataka State Pollution Control Board<br>Urban Eco Park, 100 feet road, 3 <sup>rd</sup> Phase,<br>EMPRI Building, <b>Bangalore-560 058</b> | 080-28395272 |
|--|--------------|

|  |              |
|--|--------------|
| Regional Office<br>Karnataka State Pollution Control Board<br>Plot No.97, KIADB,<br>Antharasanahalli Industrial Area<br><b>Tumkur – 572 106.</b> | 0816-2211022 |
|--|--------------|



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

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



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

#### ZONAL OFFICE: BELLARY

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



|  |              |
|--|--------------|
| Regional Office<br>Karnataka State Pollution Control Board<br>Plot No.42, B-2, KIADB Office Building<br>Naubad Industrial Area<br><b>Bidar – 585 403.</b>                              | 08482-232322 |
| Regional Office<br>Karnataka State Pollution Control Board<br>M.S.Chamber, 1 <sup>st</sup> Floor, Beside S.S.I.Yuva.com<br>Computers, Lingasugur Road,<br><b>Raichur – 584 101.</b>    | 08532-227989 |
| Regional Office<br>Karnataka State Pollution Control Board<br>H.No.869, 1 <sup>st</sup> Floor, 3 <sup>rd</sup> Cross (West)<br>J.C.R Layout,<br><b>Chitradurga-577 501.</b>            | 08194-231422 |
| Regional Office<br>Karnataka State Pollution Control Board<br>Building No.9-768/120,<br>Nilugul Complex, 1 <sup>st</sup> Floor, Opp PLD Bank,<br>Hosmat Road,<br><b>Koppal-583231.</b> | 08539-222234 |

#### ZONAL OFFICES: UDUPI

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



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

#### ZONAL OFFICE: MYSORE

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



|   |              |
|---|--------------|
| Regional Office<br>Karnataka State Pollution Control Board<br>No.9/133, 2 <sup>nd</sup> Floor, SPS Complex,<br>Vaniyar Street,<br><b>Chamarajanagar-571 313</b> | 08226-223846 |
| Regional Office<br>Karnataka State Pollution Control Board<br>Site No. 1A, B.Katihalli Industrial Area,<br>B.M. Road,<br><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 Dt: 5.8.02 | 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<br>As per govt. It     | —                                | 12  | 15         | 16               | —          |
| 3                       | Environmental Officer           | —               | —                          | —                         | —                                | 41<br>(Revised)                             | 41         | 32               | 09         |
| 4                       | Deputy Environmental officer    | —               | —                          | —                         | —                                | 41<br>(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<br>(Revised)                             | 15         | 07               | 08         |
| 9                       | Deputy Scientific officer       | —               | —                          | —                         | —                                | 15<br>(Revised)                             | 15         | 15               | —          |
| 10                      | Assistant Scientific Officer    | 09              | 10                         | 15                        | —                                | —   | 34         | 11               | 23         |
| 11                      | Scientific Assistant            | —               | —                          | —                         | —                                | 51<br>(Revised)                             | 51         | 11               | 40         |
| 12                      | Field Assistant                 | —               | —                          | —                         | 17<br>(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,<br>“Tunga”, Near Eshwara Temple, Gowri Koppal Road,<br>Hassan-573201.   | Chairman        |
| 2      | Dr. Chanakya,<br>Centre for Sustainable Technology, Indian Institute of<br>Science (IISc), Bangalore – 560 012.   | Member          |
| 3      | Dr. H.R. Raja Mohan.<br>Head, Regional Occupational Health Center (Southern),<br>Indian Council of Medical Research,<br>Bangalore Medical College Campus, Bangalore.                                  | Member          |
| 4      | Dr.G.Srinikethan,<br>Professor, Dept. of Chemical Engineering,<br>Karnataka Regional Engineering Colleges,<br>Suratkal, Srinivasa Nagar – 574 157.  | Member          |
| 5      | Joint Director (AEP),<br>Director of Industries & Commerce.   | Member          |
| 6      | Sri. Ifthikar<br>Development Officer, KIADB,<br>4th Floor, Kheny Building, Behind Tribuvan Talkies,<br>Gandhi Nagar, Bangalore – 560 009.   | Member          |
| 7      | Dr.S.Manjappa,<br>Professor & Head,<br>Chemistry & Environmental Science &<br>Technology Study Centre, Bapuji Institute of Engineering<br>& Technology, Davangere – 577 004.                          | Member          |
| 8      | Sri.H.Srinivasaiah,<br>Director of Factories & Boilers, Department of Factories &<br>Boilers, Karmika Bhavana, 2nd Floor, ITI Compound,<br>Near Dairy Circle, Bannerghatta Road, Bangalore – 560 029. | Member          |
| 9      | Sri. M.D.N.Simha,<br>Chief Environmental Officer, KSPCB.  | Member          |
| 10     | Prof. M.S.Shaila,<br>Department of Microbiology & Cell Biology,<br>Indian Institute of Science, Bangalore – 560 012.  | Special Invitee |
| 11     | Sri. S.Nanda Kumar,<br>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,<br>“Tunga”, Near Eshwara Temple,<br>Gowri Koppal Road, Hassan–573201.   | Chairman   |
| 2      | Dr. Chanakya,<br>Centre for Sustainable Technology, Indian Institute of<br>Science (IISc), Bangalore – 560 012.   | Member   |
| 3      | Head, Regional Occupational Health Center (Southern),<br>Indian Council of Medical Research, Bangalore Medical<br>College Campus, Bangalore.  | Member   |
| 4      | Dr.G.Srinikethan,<br>Professor, Dept. of Chemical Engineering, NIT, Suratkal.   | Member   |
| 5.     | Sri.M.D.N.Simha,<br>Chief Environmental Officer   | Member   |
| 6.     | Dr.Jayaprakash,<br>Former Principal, Bangalore Institute of Technology and<br>currently president of the India chapter of American Chapter<br>for Hazardous Materials Management (ACHMM), Bangalore | Member   |
| 7.     | Dr.S.Manjappa<br>Prof., Chemistry & Environmental Science<br>and Technology Study Center, BIET, Davangere   | Member   |
| 8.     | The Director or his representative,<br>Department of Factories & Boilers  | Member   |
| 9.     | Managing Director,<br>Karnataka Council for Technology up-gradation,<br>4 <sup>th</sup> Floor, Basava Bhavana, Basveshwara Circle,<br>Bangalore-01  | Member   |
| 10.    | Prof.(Smt) M.S.Shaila,<br>Department of Microbiology & Cell Biology,<br>Indian Institute of Science (IISc), Bangalore   | Special Invitee for<br>Biotech projects and<br>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,<br>K.S.P.C.B, Bangalore   | Chairperson     |
| 2.     | Chief Environmental Officer,<br>K.S.P.C.B., Bangalore                             | Member          |
| 3.     | Dr. Shiva Prakash,<br>Department of Instrumentation Technology, I.I.Sc, Bangalore | Member          |
| 4.     | Prof. Katti,<br>College of Fisheries, Mangalore                                   | Member          |
| 5.     | Sri M.N. Jayaprakash,<br>Senior Environmental Officer, K.S.P.C.B, Bangalore       | Member          |
| 6.     | Chief Accounts Officer,<br>K.S.P.C.B, Bangalore                                   | Member          |
| 7.     | Chief Scientific Officer,<br>K.S.P.C.B, Bangalore                                 | Member          |
| 8.     | Smt. Lokeshwari,<br>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,<br>K.S.P.C.B, Bangalore   | Chairperson     |
| 2.     | Sri.T.N.Parmesh, Board Member   | Member          |
| 3.     | Dr. Shiva Prakash,<br>Department of Instrumentation Technology, I.I.Sc, Bangalore                 | Member          |
| 4.     | Prof. R.J.Katti (Retd. Prof), Srimangala, Plot No.51,<br>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,<br>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,<br>S.E.O, K.S.P.C.B, Bangalore   | Chairperson     |
| 2.     | Smt. Mahalakshmi Parthasarathy<br>Environmental Awareness Specialist, Amara Canopy,<br>33/34, Apartment, #302, 6 <sup>th</sup> Cross,<br>BTM 2nd Stage, Bangalore-560076 | Member          |
| 3.     | Smt. Poornima D.G.<br>Public Affair Centre (NGO)<br># 422, 80 Feet Road, VI <sup>th</sup> Block,<br>Koramangala, Bangalore-560 095.                                      | Member          |
| 4.     | Sri Mohan Kondajji,<br># 218, First Floor, 15 <sup>th</sup> 'C' Cross, Mahalaxmipuram,<br>Bangalore-86.  | Member          |
| 5.     | Representative of<br>Information and Publicity Dept,<br>Shivajinagar Bus Stand, Shivajinagar, Bangalore.   | Member          |
| 6.     | Chief Accounts Officer,<br>K.S.P.C.B, Bangalore  | Member          |
| 7.     | Public Relation Officer,<br>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<br>S.E.O, K.S.P.C.B, Bangalore  | Chairperson |
| 2.     | Smt. Mahalakshmi Parthasarathy<br>Environmental Awareness Specialist, Amara Canopy,<br>33/34, Apartment, #302, 6 <sup>th</sup> Cross,<br>BTM 2nd Stage, Bangalore-560076 | Member      |
| 3.     | Smt. Poornima D.G.<br>Public Affair Centre (NGO)<br># 422, 80 Feet Road, VI <sup>th</sup> Block,<br>Koramangala, Bangalore-560 095.                                      | Member      |



|    |  |                 |
|----|--|-----------------|
| 4. | Sri Mohan Kondajji,<br># 218, First Floor, 15 <sup>th</sup> 'C' Cross, Mahalaxmipuram,<br>Bangalore-86.  | Member          |
| 5. | Representative of<br>Information and Publicity Dept,<br>Shivajinagar Bus Stand, Shivajinagar, Bangalore. | Member          |
| 6. | Sri.Venugopal, Board Member  | Member          |
| 7. | Sri.S.C.Chandu, Board Member   | Member          |
| 6. | Chief Accounts Officer,<br>K.S.P.C.B, Bangalore  | Member          |
| 7. | Public Relation Officer,<br>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).<br>(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.<br>(b) Kraft paper mills.<br>(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.<br>(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.<br>(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>distillation</del> Household <del>with</del> <b>without</b> use 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. |  |
|   | Flour Mills                             | 11. |  |
| Trimming, cutting, juicing and blenching of fruits and vegetables (fruit processing, pulping, etc.) |   | 12. |  |
| Washing of equipments and regular floor washing using considerable cooling water.                   |   | 13. |  |
|   | Steeping and processing of grain.       | 14. |  |
| Filtration, centrifugation and distillation.  |   | 15. |  |
| DM plant exceeding 20 Kilo Liters per day capacity.   |   | 16. |  |
| Solvent extraction plants (excluding refining).   |   | 17. |  |
|   | Hotels with laundry.                    | 18. |  |
|   | Rerolling Mill.                         | 19. |  |
| Ceramic tiles and products (other than small ceramics)  |   | 20. |  |
|   | Milk chilling center.                   | 21. |  |
|   | Shell grit and shell grit powder.       | 22. |  |
|   | Hatcheries.                             | 23. |  |
|   | Cattle feed and poultry feed.           |     |  |



|     |   |
|-----|---|
| 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,<br>K.S.P.C.B, Bangalore   | Chairperson     |
| 2      | Member Secretary,<br>K.S.P.C.B, Bangalore   | Co-Chairperson  |
| 3      | Representative of BDA   | Member          |
| 4      | Representative of BWSSB   | Member          |
| 5      | Sri R.C. Purohit,<br>President, Chamber of Commerce, F.K.C.C.I,<br>K.G. Road, Bangalore | Member          |
| 6      | Sri. M.D.N. Simha,<br>Chief Environmental Officer, K.S.P.C.B, Bangalore                 | Member          |
| 7      | Sri. S. Ramakrishna, Senior Environmental Officer,<br>K.S.P.C.B, Bangalore              | Member          |
| 8      | Sri. N.R. Raju,<br>Environmental Officer,<br>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,<br>K.S.P.C.B, Bangalore                                       | Chairperson     |
| 2      | Member Secretary,<br>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,<br>Chief Environmental Officer, K.S.P.C.B, Bangalore | Member          |
| 8      | Secretary, KASSIA   | Member          |
| 9      | Sri. N.R. Raju,<br>Environmental Officer,<br>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,<br>KS.P.C.B, Bangalore                                     | Chairperson     |
| 2      | Sri. M.D.N. Simha,<br>Chief Environmental Officer, KS.P.C.B, Bangalore       | Member          |
| 3      | Sri. P.N. Sirsi,<br>Senior Environmental Officer, K.S.P.C.B, Bangalore       | Member          |
| 4      | Sri. M.N. Jayaprakash,<br>Senior Environmental Officer, K.S.P.C.B, Bangalore | Member          |
| 5      | Sri. D.R. Kumara Swamy, Environmental Officer,<br>K.S.P.C.B, Bangalore       | Member          |
| 6      | Smt. Viji Karthikeyan,<br>Environmental Officer,<br>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,<br>KS.P.C.B, Bangalore                                 | Chairperson     |
| 2      | Sri.Venugopal, Board Member  | Member          |
| 3      | Sri. M.D.N. Simha,<br>Chief Environmental Officer, KS.P.C.B, Bangalore   | Member          |
| 4      | Sri.D.R.Kumara Swamy, SEO Environmental Officer,<br>K.S.P.C.B, Bangalore | Member          |
| 5      | Secretary, KASSIA  | Member          |
| 6      | Smt. Viji Karthikeyan,<br>Environmental Officer,<br>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,<br>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 nanjinzhaio 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,<br>Indi Tq | Bijapur             | Distillery 60<br>KLPD cogen<br>19.5 MW                                    | 12-03-2009 |
| 87. | M/s.Murali Industries Ltd, Chitapur Tq             | Gulbarga            | Cement Plant 3<br>MTPA, Lime Stone<br>Mining and 50 MW<br>capative power  | 18-03-2009 |
| 88. | Leferge India, Chitapur Tq                         | Gulbarga            | Cement Plant<br>3 MTPA, Lime<br>Stone Mining and<br>43MW captive<br>power | 25-03-2009 |
| 89. | Karnataka Power Corporation Ltd,<br>Putur Tq.      | Dakshina<br>Kannada | Hydel Power Plant<br>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<br>(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 | C | C | C | C | B | 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 | - | B | - |
| 39 | Kagina D/S of sewage disposal point (Monitoring Quarterly)                           | Kagina       | C | - | - | - | - | - | - | - | - | - | - | 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,<br>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,<br>Tumkur Dist-,                 | 22-04-2008               |
| 11.     | Bhagya Nagar Solvent Extraction (P) Ltd-,<br>Raichgur Taluk and Dist                   | 24-04-2008               |
| 12.     | BPL Soft, Maddur, Mandya District  | 29-04-2008               |
| 13.     | Raikar Minerals, Mining and processing industries,<br>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. | Vishveshwaraiah 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<br>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. | Vishveshwaraiah 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 &<br>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,<br>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,<br>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,<br>Doddaballapura Tq, Bangalore            | 08-07-2008                 |
| 94. | Sudhamayi Quality Foods (P)Ltd, KIADB Indl Area,<br>Doddaballapura , Bangalore | 08-07-2008                 |
| 95. | Dynamatic Technologies Ltd, No-11, II Phase,<br>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,<br>20 <sup>th</sup> K-M- Hosur Road, Hebbagodi- 561 229, Bangalore                       | 21-01-2009 |
| 132. | Mangalore Chemicals and<br>Fertilizers Ltd-, Panambur, Mangalore - 575 010                                     | 29-01-2009 |
| 133. | Mangalore Refinery and Petrochemicals Limited,<br>Kuthethoor, Via Katipalla, Mangalore 575 030                 | 29-01-2009 |
| 134. | ACC Limited,<br>Tondebavi Village, Gouribidanur Tk-, Kolar District-   | 11-03-2009 |
| 135. | Associated Cement Company Ltd-, Wadi Cement Works,<br>(Old Plant), Wadi P-O- Wadi, Gulbarga District – 585 225 | 24-03-2009 |
| 136. | Madras Cement Ltd-,<br>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,<br>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,<br>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.<br>No 66,KIADB Indl. Area, Malur.Tq,<br>Kolar Dist   | 1200 MT/A       | Aluminium Re-processor       | 30.09.2008 |
| 2                                       | GTR Aluminium P Ltd<br>No 33E, Veerasandra Indl. Area,<br>Bangalore  | 2500 MT/A       | Aluminium Re-processor       | 27.09.2009 |
| <b>Common effluent treatment plants</b> |  |                 |                              |            |
| 3                                       | Pai & Pai Chemicals,<br>No.25-D, 1ST Phase, KIA, Bangalore.  | 20 KLD          | CETP                         | 30.06.2009 |
| 4                                       | Pai & Pai Chemicals Pvt. Ltd,<br># 29A, 1st phase Kumbalgodu,<br>Bangalore-74  | 300 KLD         | CETP (Metal Finishing Waste) | 30.06.2010 |
| <b>Common Incineration Facility</b>     |  |                 |                              |            |
| 5                                       | Haat Incinerator India Private Limited,<br>Plot NO: 35 B&C, Jigani Industrial Area,<br>Anekal Taluk, Bangalore District.                       | 1800 MT/A       | Common Incineration Facility | 30-06-2010 |
| 6                                       | Century Refineries Pvt. Ltd,<br>(Formerly M/s Century Refineries Unit-II), Plot NO.17-I & J,<br>KIADB Indl. area, Hoskote Taluk,<br>Bangalore. | 2400 MT/A       | Common Incineration Facility | 30.06.2013 |
| 7                                       | Gomti Incinco,<br>No.3-B-2, 1st phase, KIADB (I) area,<br>Kumbalgod  | 900 MT/A        | Common Incineration Facility | 30.06.2010 |
| <b>Copper Re-processors</b>             |  |                 |                              |            |
| 8                                       | KG Nandini enterprises<br>No. 42 Karihobanahalli, Yeshwanthpur<br>Bangalore  | 240 MT/A        | Copper Re-processor          | 29.08.2010 |
| 9                                       | Saravana foundry & Engg. wires<br>No 382, 10th Cross, 4th Phase, PIA,<br>Bangalore   | 120 MT/A        | Copper Re-processor          | 30.06.2010 |
| 10                                      | Rajeshwari copper Products<br>No 79, Indl. suburb, Yeshwanthpur,<br>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,<br>No 176 Hebbal Indl. Area, Mysore   | 600 MT/A  | Etchant<br>Re-processor | 30.06.2010 |
| 25                        | Nanjangudu Tamara Rasayan Pvt. Ltd.,<br>No 35, 12th cross, V.V.Mohalla, Mysore                                  | 1800 KL/A | Etchant<br>Re-processor | 30.06.2008 |
| 26                        | Rama Chemicals, no.91/2, shed no.4,<br>Subbanna Indl. area, Garucharyapalya,<br>White field road, Mahadevpura.  | 360 KL/A  | Etchant<br>Re-processor | 30.06.2010 |
| 27                        | Karnataka Agro Chemicals,<br>43-C, KIDAB (i) Area. Hoskote,<br>Bangalore  | 3168KL/A  | Etchant<br>Re-processor | 30.06.2010 |
| 28                        | Canara agro chemicals,<br>Plot No.443-A, IV Phase, PIA,<br>Bangalore  | 60 KL/A   | Etchant<br>Re-processor | 12.09.2008 |
| 29                        | Chevrur chemicals & Industries,<br>No.B-304, II Stage, PIE, Bangalore-58  | 960 KL/A  | Etchant<br>Re-processor | 30.06.2010 |
| 30                        | Multiplex agricare Pvt. Ltd.,<br>No.454, IV Phase, PIA, Bangalore-58  | 600 MT/A  | Etchant<br>Re-processor | 30.06.2008 |
| 31                        | Shri Varu Acid & Chemicals<br>No 143 3rd Phase, Peenya<br>Industrial. Area, Bangalore                           | 1200 KL/A | Etchant<br>Re-processor | 30.06.2010 |
| 32                        | Shree Laxminarayana Chemical,<br>Plot No.47-P3, Hirehally Indl. Area,<br>Tumkur                                 | 1.93 KL/D | Etchant<br>Re-processor | 30.06.2010 |
| <b>E-Waste Recyclers</b>  |   |           |                         |            |
| 33                        | Ash Recyclers,<br>No.94, Thimmaiah Rd, Bangalore  | 120 MT/A  | E-Waste                 | 31-12-2010 |
| 34                        | Ash Recyclers,<br>No.3, KSSIDC (i) Estate, Hoskote,<br>Banalore-14  | 120 MT/A  | E-Waste                 | 30.06.2010 |
| 35                        | E Parisara Pvt. Ltd<br>No 30-P3, Dabaspeta, Bangalore   | 600 MT/A  | E-Waste                 | 30.06.2010 |
| 36                        | Nishanth Technologies,<br>Shed No. B-121/A, ITI Dyavasandra<br>Industrial Estate, Whitefield Road,<br>Bangalore | 240 MT/A  | E-Waste                 | 30.06.2010 |
| 37                        | Moogambigai Metal Refineries,<br>Plot No.89 & 90, Industrial Area,<br>Baikampady, Mangalore – 11.               | 14.4 MT/A | E-waste                 | 30.06.2013 |
| <b>Lead Re-processors</b> |   |           |                         |            |
| 38                        | Sapthagiri Metal Refinery,<br>Kallur, Mandli, Shimoga   | 850 MT/A  | Lead<br>Re-processor    | 08.01.2010 |



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



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



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



|                                 |  |             |                       |            |
|---------------------------------|--|-------------|-----------------------|------------|
| 83                              | Sri Balaji Refineries,<br>B-5&6, Veerasandra Industrial Area,<br>Anekal Taluk, Bangalore.                | 1100 KL/A   | Used Oil<br>Recycling | 30-06-2010 |
| 84                              | SB Refineries<br>Plot No. 81, 4th phase, Bommasandra<br>Link Road  | 3600 KL/A   | Used Oil<br>Recycling | 19.08.2009 |
| 85                              | Century Refineries(Used Oil),<br>Plot no. 17B, KIADB (I) estate, Old<br>Madras Road, Hoskote, Bangalore- | 10,000 MT/A | Used Oil<br>Recycling | 26.08.2010 |
| 86                              | Bharat Lubricants<br>B-36 Veerasandra Indl. Area, Bangalore  | 9000 KL/A   | Used Oil<br>Recycling | 27.03.2009 |
| 87                              | Arun Industries,<br>B-64, III Stage, PIE, Bangalore-58   | 360 KL/A    | Used Oil<br>Recycling | 30.06.2010 |
| 88                              | MR Industries,<br>Plot no.14-G, 1stCross 2nd main,<br>Kumbalgod, Bangalore-74                            | 1000 KL/A   | Used Oil<br>Recycling | 30.06.2010 |
| 89                              | Merlyn Hydrocarbons P Ltd<br>No 366 Hassan Growth Centre   | 3600 KL/A   | Waste Oil<br>recycler | 17.09.2008 |
| 90                              | Indolubes & Solvents<br>No.352, 4th main, PIA, Bangalore   | 1500 KL/A   | Waste Oil<br>Recycler | 30.06.2014 |
| <b>Used Oil Recycling units</b> |  |             |                       |            |
| 91                              | Vasthu Chemicals Pvt. Ltd.,<br>No. 314, Part-I, Hebbal Industrial Area,<br>Mysore.-570016                | 1100 MT/A   | Zinc<br>re-processor  | 30-06-2010 |
| 92                              | Himalaya Oxides Ltd, No.231-A,<br>Hebbal Industrial Area,<br>Mysore – 571 186                            | 240 MT/A    | Zinc<br>re-processor  | 30.06.2010 |
| 93                              | Chemitals (P) Ltd.,<br>No.156, I Stage, PIE, Bangalore-58  | 1080 MT/A   | Zinc<br>re-processor  | 12-09-2008 |
| 94                              | MSR Chemicals P Ltd<br>No 22/3, Mantanakurchi,<br>Nelamangala Bangalore                                  | 750 MT/A    | Zinc<br>re-processor  | 04.10.2008 |
| 95                              | Pranil Enterprises,<br>Sy. No.32, Kullugopanahally,<br>Ramanagar taluk, Bidadi.                          | 3600 MT/A   | Zinc<br>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,<br>BIG-92.7. -F.M. Radio,<br>#.20,5 <sup>th</sup> cross,5 <sup>th</sup> Block,<br>Koramangala,<br>Bangalore-560095.  | Sponsorship- Broadcasting for 'Day Branding' on the eve of World Earth Day-2008   | 22/4/08          | Rs.95,000/-       |
| 2      | Secretary<br>Prakashana Education &<br>Rural Development Society,<br>Sanatana Nilaya, Cycle stand<br>Factory Road, Upparahally,<br>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<br>Vani Vidya Samsthe,<br>Teetha, Koratagere<br>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<br>Chetana - Urban & Rural<br>Development Society,<br>Chikkanavangala,<br>Tarikere-Taluk,<br>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<br>SEED- Trust<br>GBN.Road. RMC Market yard,<br>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<br>AAJKA SAMNA-TV,<br>#.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,<br>Tilak Nagar, Jayanagar,<br>Bangalore-560041.<br><br>Secretary<br>Science Education Trust,<br>Vijnana Betta,<br>Rashtra Kavi Kuvempu vana,<br>Mantralayam Road,<br>Raichur-584103 | film /Advertisement in AAJKA<br>SAMNA- T.V.<br><br>Sponsorship for providing<br>Rain water Harvesting facility<br>to one Govt. School/ public<br>building & conducting<br>training programme to 700<br>D.Ed & B.Ed Teachers and<br>students of Raichur city and<br>to conduct competition in<br>essay and selection<br>programme to be conducted. | 02/05/08 | Rs.67,000/-   |
| 8  | Secretary<br>CARTMAN<br>#. 870, 17 <sup>th</sup> E, Main,<br>Koramangala, 6 <sup>th</sup> Black,<br>Bangalore-560095   | To conducting Environmental<br>awareness programme<br>programmes on the eve of<br>World Environment Day-2008  | 20/05/08 | Rs.15,000/-   |
| 9  | Manager<br>Manager Concern India<br>Foundation, #.104,<br>ground Floor,<br>St. John's, Church Road,<br>Bangalore-560005.   | Sponsorship for conducting<br>"Anti litter Awareness<br>Campaign  | 27/05/08 | Rs.2,00,000/- |
| 10 | The Station Director<br>Radio city -91.1F.M.<br>Radio, #.137,10 <sup>th</sup> Floor,<br>H.M.G.Ambassador Building,<br>Residence Road,<br>Bangalore-560025  | Broadcasting of Environment<br>Awareness programmes on<br>the eve of World Environment<br>Day-2008  | 30/05/08 | Rs.67,500/-   |
| 11 | The Station Director,<br>Prasara Bharati,<br>All India Radio<br>Bangalore-560001.  | Broadcasting of Environment<br>Awareness programmes on<br>the eve of World Environment<br>Day-2008  | 30/05/08 | Rs.99,493/-   |
| 12 | President<br>Bharatiya Samaja Seva Trust,<br>#. 36/1, Nanjamba Agrahara,<br>5 <sup>th</sup> Main, Chamarajpet,<br>Bangalore-18.  | Sponsorship for conducting<br>Environment Awareness<br>programmes on the eve of<br>World Environment Day-2008.  | 30/05/08 | Rs.10,000/-   |
| 13 | Secretary<br>Women's & Children Welfare<br>Association, #.243, 5 <sup>th</sup> main,   | Sponsorship for conducting<br>Environment Awareness<br>programme on the eve of  |          |               |



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



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



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



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



|    |  |  |          |               |
|----|--|--|----------|---------------|
| 46 | Secretary<br>Samaja Seva Samithi,<br>#.60, 3 <sup>rd</sup> Cross Road,<br>Gavipuram Extn,<br>Bangalore-560019. | Sponsorship for Awareness<br>programme on Plastic.                                       | 03/01/09 | Rs.60,000/-   |
| 47 | Professor and Head of the Dept.<br>Anatomy and Histology,<br>Veterinary College, Hebbal,                       | Sponsorship for Research<br>project on "Eradication of<br>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<br>College of Fisheries ,<br>Mathsyaganagar,<br>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,<br>Organizing committee,<br>Veterinary college,<br>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<br>Sharathi,-A Resource Center for communications, #.29,<br>1 <sup>st</sup> floor, 28 <sup>th</sup> cross 9 <sup>th</sup> main,<br>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<br>CII-ITC Centre of Excellence for Sustainable Development<br>II Floor, Thapar House, 124,<br>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,<br>XX Annual Conference of National IAP,S.S. Institute of Medical Science & Research center NH-4 Bypass Road,<br>Davangere-577005  | Sponsorship for organizing XX Annual Conference of National IAP Respiratory Chapter.   | 04/07/08         | Rs.25,000/-       |
| 6      | Organizing Secretary,<br>National Symposium,<br>Veterinary college,<br>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<br>Manufacturers Association for Information Technology,<br>#.28, 2 <sup>nd</sup> Floor, 7 <sup>th</sup> cross,<br>2 <sup>nd</sup> A main, Indiranagar,<br>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<br>National Symposium on plant<br>protection University of<br>Agriculture Science, GKVK<br>Bangalore- 560065.                             | Sponsorship for National<br>Symposium on plant<br>protection.  | 03/12/08  | Rs.2,00,000/- |
| 9  | Chairman<br>Organizing committee,<br>73 <sup>rd</sup> Annual convention of Soil<br>Scientists, University of<br>Agricultural Sciences,<br>G.K.V.K.Bangalore-65 | Sponsorship for organizing<br>73 <sup>rd</sup> Annual convention of<br>Soil Scientists, at G.K.V.K.<br>Bangalore       | 11/12/08  | Rs.1,00,000/- |
| 10 | Coordinator-(TW-EETB-2009)<br>Department of Chemical<br>Engineering, National Institute<br>of Technology, Surathkal,<br>Mangalore-575025.                      | Sponsorship for Workshop on<br>"Emerging Trends in<br>Environmental Biotechnology".                                    | 24/12/08  | Rs.50,000/-   |
| 11 | Chairman Eco-Watch, #.403,<br>5 <sup>th</sup> main, 18 <sup>th</sup> Cross<br>3 <sup>rd</sup> Block, Jayanagar<br>Bangalore- 560011.                           | Sponsorship for workshop on<br>water Resource Management<br>& pollution control.                                       | 17/01/09. | Rs.50,000/-   |
| 12 | Organizing Secretary<br>Professor and Head,<br>Physics Department,<br>Siddha Ganga Institute of<br>Technology,<br>Tumkur-572103.                               | Sponsorship for Two days<br>Workshop on "Wealth from<br>Waste" –Awareness<br>programme                                 | 17/01/09. | Rs.20,000/-   |
| 13 | The Convener<br>National Seminar<br>Department of Biotechnology<br>St.Aloysius College,<br>Mangalore-575003.   | Sponsorship for National<br>Seminar on "Sustainable was<br>te Management- Problems<br>and solutions"                   | 28/01/09. | Rs.50,000/-   |
| 14 | Principal<br>Sree Siddhaganga College<br>of Arts, Science, Commerce,<br>B.H.Road, Tumkur-572102.   | Sponsorship for organizing<br>"State level Seminar on<br>Environmental Studies"  | 07/02/09. | Rs.1,00,000/- |
| 15 | The Convener<br>National conference,<br>Department of Studies in<br>Environmental Science,<br>University of Mysore,<br>Mysore-570006.                          | Sponsorship for National<br>conference on<br>"Current trends in<br>Environmental Science &<br>Sustainable development" | 07/02/09. | Rs.20,000/-   |



|    |  |  |           |             |
|----|--|--|-----------|-------------|
| 16 | The Convener<br>National Workshop<br>Department of Studies in<br>Geology, University of Mysore,<br>Mysore-570006.            | Sponsorship for National<br>Workshop on "Rooftop<br>Rainwater Harvesting and<br>Groundwater Recharge"      | 03/03/09. | Rs.20,000/- |
| 17 | The Organizing Secretary<br>National Seminar,<br>Mount Carmel College,<br>#.58, Place Road,<br>Bangalore-560052.             | Sponsorship for National<br>Seminar on "Converging<br>Sciences for quality Life"                           | 03/03/09. | Rs.10,000/- |
| 18 | The principal<br>Maharani Lakshmi Ammanni<br>College for Women,<br>Malleswaram, 18 <sup>th</sup> cross,<br>Bangalore-560012. | Sponsorship for State level<br>Seminar on<br>"Clean Environment through<br>Management of Organic<br>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<br>Karnataka sowrabha-Monthly,<br>#.1252, 10 <sup>th</sup> main, 5 <sup>th</sup> cross,<br>Vijayanagara<br>Bengalooru -560040.                  | Release of Advertisement on<br>Environment related issues. | 05/04/2008       | Rs.1,000/-        |
| 2      | The Editor<br>Uddaraka – (Monthly)<br>#. 2, Block No.2, K.G.S. Quarts,<br>Gavindarajanagar,<br>Magadi Road,<br>Housing Board Colony,<br>Bengalooru-560079. | Release of Advertisement on<br>Environment related issues. | 05/04/2008       | Rs.1,000/-        |
| 3      | The Editor<br>New Grameena Mitra,<br>#.359,Venkataramanappa<br>Building, Near GKVK,<br>Amruthahalli,Bengalooru-92  | Release of Advertisement on<br>Environment related issues. | 05/04/2008       | Rs.2,000/-        |
| 4      | Organizing Committee<br>Rasayan-2008,<br>Department of Chemical<br>Engineering, M.S.R.I.T.<br>Bengalooru-560054.   | Release of Advertisement on<br>Environment related issues. | 09/04/2008       | Rs.5,000/-        |
| 5      | The Editor<br>Sidilu-kannada Monthly<br>#.1447,17 <sup>th</sup> Cross,<br>Kumarswamy Layout,<br>J.P.Nagara, Bangalore-78.                                  | Release of Advertisement on<br>Environment related issues. | 24/04/2008       | Rs.1,000/-        |
| 6      | The President<br>Sanatana Dharma for the Deaf,<br>#.431, 5 <sup>th</sup> cross, R.R.Layout,<br>Nagadevanahalli,<br>Bangalore-56.                           | Release of Advertisement on<br>Environment related issues. | 24/04/2008       | Rs.2,000/-        |
| 7      | The Editor<br>The Hindu-Daily,<br>#. 19/21, Infantry Road,<br>Bengalooru-560001.   | Release of Advertisement on<br>Environment related issues. | 24/04/2008       | Rs.30,000/-       |
| 8      | Convener   | Release of Advertisement on                                | 02/05/2008       | Rs.1,000/-        |



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



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



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



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



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



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



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



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



|    |  |  |            |             |
|----|--|--|------------|-------------|
| 74 | Director<br>Varsha Creations<br>#.10, New Yediyur post<br>Office Road, Jayanagara,<br>7 <sup>th</sup> block, Bangalore-560070.                     | Release of Advertisement on<br>Environment related issues. | 11/02/2009 | Rs.5000/-   |
| 75 | Secretary & Editor<br>Environ Friend Institute,<br>#.C-602, Silver Tower,<br>Thakur complex, Kandivli(E)<br>Mumbai-400101.                         | Release of Advertisement on<br>Environment related issues. | 11/02/2009 | Rs.5000/-   |
| 76 | Manager<br>Concern India Foundation,<br>#.104, Ground Floor,<br>St.John's Church Road,<br>Bangalore-560005.  | Release of Advertisement on<br>Environment related issues. | 11/02/2009 | Rs.15,000/- |
| 77 | President<br>Karnataka Rajya kalavidara<br>kalyana vedike, #.34/1,<br>8 <sup>th</sup> main, 3 <sup>rd</sup> cross, Mathikere,<br>Bangalore-560054. | Release of Advertisement on<br>Environment related issues. | 11/02/2009 | Rs.2000/-   |
| 78 | The Editor<br>Udayavani-(Special Issue)<br>Udayavani Building,<br>Manipal -576104.   | Release of Advertisement on<br>Environment related issues. | 18/03/2009 | Rs.50,000/- |
| 79 | The Editor<br>Sudha- (Ugadi special-2009)<br>#.75, M.G.Road,<br>Bangalore -560001.   | Release of Advertisement on<br>Environment related issues. | 18/03/2009 | Rs.25,000/- |
| 80 | The Editor<br>Taranga Ugadi-Special Issue,<br>Udayavani Building,<br>Manipal -576104.  | Release of Advertisement on<br>Environment related issues. | 24/03/2009 | Rs.20,000/- |
| 81 | The Editor<br>Stree Jagruti-Kannada<br>Monthly, #.60, 3 <sup>rd</sup> cross,<br>Gavipuram Extn,<br>Bangalore-560019.                               | Release of Advertisement on<br>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,<br>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,<br>New Delhi |
| 4       | HRD programme<br>Bangalore  | 23.05.08 to 24.05.08,              |
| 5       | Water Quality and its Management<br>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,<br>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,<br>Hyderabad |
| 9       | Summit on 'Clean Development Mechanism and Carbon Trading in India'                             | 11.11.08 to 15.11.08,<br>New Delhi |
| 10      | Air Quality modeling<br>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,<br>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,<br>Rajasthan    |
| 20 | Contaminated Groundwater Monitoring and Soil Assessment   | 15.09.08 to 19.09.08,<br>Hyderabad    |
| 21 | Municipal Solid Waste management  | 22.09.08 to 26.09.08,<br>Uttaranchal  |
| 22 | Tungabhadra Stakeholder workshop  | 30.09.08 to 01.10.08,<br>Bangalore    |
| 23 | Rerolling Mills   | 21.10.08 to 24.10.08,<br>Bangalore    |
| 24 | Hazardous Waste, Batteries Waste & E- Waste Management  | 13.11.08 to 15.11.08,<br>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,<br>New Delhi    |
| 27 | Treatment and Reuse of Textile Industry Effluents   | 10.12.08 to 12.12.08,<br>New Delhi    |
| 28 | Development and Environmental Issues  | 01.12.08 to 05.12.08,<br>Mysore       |
| 29 | 'Interaction meet on Bio-medical Waste Management'  |                                       |
| 30 | 'Conservation & Management of Lakes and Rivers'   | 10.12.08 to 14.12.08, IIT,<br>Roorkee |
| 31 | Pollution Control in Slaughter House  | 05.01.09 to 07.01.09,<br>Bangalore    |
| 32 | National seminar on 'Lead acid batteries- Technology & applications   | 18.02.09 to 19.02.09,<br>Bangalore    |
| 33 | Workshop on 'Emerging trends in Environmental Biotechnology'  | 12.01.08 to 14.01.08,<br>Mangalore    |
| 34 | 'Clean Air Imperatives in South Asian Cities with Special Focus on Vehicles and Urban Transport'                                  | 02.03.09 to 06.03.09,<br>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<br>31.03.2009<br>Rs. | As on<br>31.03.2008<br>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<br>CPCB             | 169211<br>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> |
|------------------|------------------|

#### V INTEREST ON INVESTMENTS :

|                      |          |          |
|----------------------|----------|----------|
| Fixed deposits       | 87055908 | 58966769 |
| Savings Bank Account | 263669   | 427486   |
| Staff Advance        | 1213418  | 1509913  |

|                 |                 |
|-----------------|-----------------|
| <b>88532995</b> | <b>60904168</b> |
|-----------------|-----------------|

#### VI RECOVERY OF ADVANCES :

|                                |          |          |
|--------------------------------|----------|----------|
| 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> |
|-----------------|-----------------|

#### VII OTHERS :

##### A OTHER REVENUES

|                              |         |         |
|------------------------------|---------|---------|
| 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> |
|----------------|----------------|

##### C OTHER DEDUCTIONS :

|                                |         |        |
|--------------------------------|---------|--------|
| 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            |
|              | <b>1900672456</b> | <b>1371426659</b> |

|                   |                                     |                                     |
|-------------------|-------------------------------------|-------------------------------------|
| <b>PAYMENTS :</b> | <b>As on<br/>31.03.2009<br/>Rs.</b> | <b>As on<br/>31.03.2008<br/>Rs.</b> |
|-------------------|-------------------------------------|-------------------------------------|

**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           | -               |
|                                    | <b>33238731</b> | <b>18007464</b> |



## 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> |
|-----------------|-----------------|

## 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                       |