

# **CHAPTER 1**

## **INTRODUCTION**

### **1.1 GENERAL INTRODUCTION**

The Goa State Pollution Control Board is an Autonomous Statutory Authority constituted on 1<sup>st</sup> July, 1988 under the Water (Prevention & Control of Pollution) Act, 1974. Prior to that, when Goa formed part of the erstwhile Union Territory of Goa, Daman and Diu, the Central Board for the Prevention and Control of Water Pollution was performing the functions of the State Board in Goa. The Central Pollution Control Board at Ponda-Goa had established a Section Office for the purpose. The same arrangement continued till the constitution of the State Board. In the meanwhile, the Section Office was re-constituted as West Zonal Office and shifted to Baroda on 4<sup>th</sup> April, 1988. All the relevant records pertaining to Goa were transferred to the Goa State Pollution Control Board on 12<sup>th</sup> September, 1988.

The Goa State Pollution Control Board, after its constitution, established its office in the Goa Medical College Complex at Bambolim. In June 1991, the Government of Goa allotted independent premises for the Board at Patto- Panaji, where the Board shifted its office in September 1991.

On 15<sup>th</sup> August, 2002 the Board acquired new premises on the 1<sup>st</sup> floor in Dempo Tower at Patto Plaza, Panaji and shifted its full set-up to this new premise. Subsequently, on 15<sup>th</sup> August, 2005, the Board acquired additional premises measuring 311.86 Sq. mt. on the 4<sup>th</sup> floor of the same building. The Physical and Analytical Laboratory-I was set up on the 1<sup>st</sup> Floor and the Physical and Analytical Laboratory-II and the Microbiology Laboratory were set up on the 4<sup>th</sup> Floor.

On 28<sup>th</sup> February, 2007, the Board established its first Regional Office in Goa. It was set up in the quarters of the Industrial Development Corporation at Verna Industrial Estate, Verna, Goa. It is performing functions under the Water and Air Acts to cater to the needs of the industries in South Goa.

### **1.2 CONSTITUTION OF THE BOARD INCLUDING CHANGES THEREIN**

The present Board was constituted vide Order No. 5/20/87-STE/Part II/198 dated 26/05/2006 and the composition is as given below:-

#### **Chairman**

1. Dr. L.U. Joshi, Ex-Director (Scientific), Ministry of Science & Technology (New Delhi)

#### **Members**

2. Shri J.S.S. Rego, Chief Engineer-II, PWD
3. Dr. Rajananda Dessai, Director, Health Services
4. Shri Joseph D'Souza, Scientist (Remote Sensing), S.T.E
5. Shri J.B. Bhingui, Director, Department of Mines
6. Shri S.G. Redkar, Chief Inspector, Factories & Boilers
7. Smt. Ruth Furtado, Councilor, Corporation of City of Panaji
8. Smt. Carmeline Menezes, Sarpanch, Village Panchayat of Guirim
9. Shri Gurudas Gawas, Navelim, Bicholim
10. Shri Nitin Kunkolienkar, President, Goa Chamber of Commerce & Industry
11. Shri Keshav Kamat, President, Goa Small Industries Association.
12. Shri Tulio de Souza, President, Association of Architects
13. Shri A.V. Palekar, Managing Director, Goa Industrial Development Corporation

14. Shri. Palekar, Managing Director, Goa Tourism Development Corporation

**Member Secretary**

15. Shri A. G. Daiwajna, Executive Engineer, PWD

**1.3 CONSTITUTION OF THE TECHNICAL COMMITTEE AND THE MEETINGS HELD**

In order to develop uniformity in approach and to ensure timely clearance of the consent applications, the Chairman of the Board constitutes a Technical Committee composing of technical and scientific officers.

The running Technical Committee constituted in the previous financial year vide office order C-6; letter no. 1/8/05-PCB/Vol XII/3342 dated 15/11/2006 has the following members:

1. Shri. A. G. Daiwajna, Member Secretary, Goa State Pollution Control Board
2. Shri Nitin Kunkolienkar, President, Goa Chamber of Commerce & Industry (or his authorized representative)
3. Shri Keshav Kamat, Ex President, Goa Small Industries Association (or his authorized representative)
4. Shri Tulio De Souza, President, Institute of Architects, Goa Chapter (or his authorized representative)
5. Shri Cesar Menezes, President, Goa Pharmaceutical Manufacturer Association (or his authorized representative)
6. Shri S. Shridhar, Chief Executive Officer, Mineral Ore Foundation (or his authorized representative)
7. Dr. S.P. Fondekar, Head, SMPG, NIO / Mrs. Analia Mesquita / Dr. P.V. Shirodkar (or his authorized representative)
8. Shri Sanjeev Joglekar, Environmental Engineer, Goa State Pollution Control Board
9. Dr. Simon de Souza, (Ex Scientist 'F') Consultant, Goa State Pollution Control Board
10. Shri Govind Tiwari, Vice President, United Breweries Pvt. Ltd. (or his authorized representative)

Vide office order C-80 dated 24/01/2007, Shri Sanjay Vaze, AEE was added at sl. No. 11 as a new member to the above committee.

Subsequently, vide office order C-12 dated 06/08/2007, the following additional changes were made; Shri Tulio De Souza, Shri Cesar Menezes, Shri S. Shridhar and Shri Govind Tiwari were replaced with the following as new members to the committee, viz,

1. Shri A. V. Palekar, Managing Director, Goa Industrial Development Corporation,
2. Shri Michael De Souza, Director, Department of Science, Technology & Environment,
3. Mr. Ulhas Sawaikar, Lecturer, Goa College of Engineering, Farmagudi
4. Shri Ralph De Souza, President, Travel & Tourism Association of Goa.

Further, at sl. No. 7, only one member i.e. Dr. P.V. Shirodkar has been included in this re-constituted committee.

Again on 21/08/2007, the committee was further re-constituted vide the same order i.e., C-12 to make the following:

Shri Nitin Kunkolienkar, Shri Keshav Kamat, Mr. Ulhas Sawaikar, Shri Ralph De Souza, Dr. P.V. Shirodkar and Shri Sanjeev Joglekar, AEE have been omitted from the committee and new members have been included as follows:

1. Dr. Joseph De Souza, Chief scientist (Remote Sensing). Dept of Science, Technology & Environment,
2. Shri Pascoal Noronha, B.Sc., B.E., Margao,
3. Shri Jose Noronha, M.E. (T.E.) MIE (MECH), Margao,
4. Dr. Savita Kerkar, Reader, Department of Bio Technology, Goa University, Taleigao,
5. Shri Shridhar Kamat, B.E., Margao.

This committee was functioning upto February 2008 and a third re-constitution was made vide office order C-17 dated 15/02/2008. In this re-constitution, 5 members i.e., Dr. Savita Kerkar, Shri Shridhar Kamat, Shri Pascoal Noronha, Shri Michael De Souza and Shri A. V. Palekar were replaced with 5 members. The final committee for the year under report is as follows:

1. Shri. A. G. Daiwajna, Member Secretary, Goa State Pollution Control Board
2. Shri Nitin Kunkolienkar, President, Goa Chamber of Commerce & Industry (or his authorized representative)
3. Shri Keshav Kamat, Ex President, Goa Small Industries Association (or his authorized representative)
4. Shri Tulio De Souza, President, Institute of Architects, Goa Chapter (or his authorized representative)
5. Dr. Joseph De Souza, Chief scientist (Remote Sensing). Dept of Science, Technology & Environment,
6. Shri Jose Noronha, M.E. (T.E.) MIE (MECH), Margao,
7. Shri Sanjeev Joglekar, AEE, Goa State Pollution Control Board
8. Dr. Simon de Souza, (Ex Scientist 'F') Consultant, Goa State Pollution Control Board
9. Shri Sanjay Vaze, AEE, Goa State Pollution Control Board

The committee held weekly meetings for scrutiny of consent applications, both under Water (Prevention & Control of Pollution) Act, 1974 and Air (Prevention & Control of Pollution) Act, 1981. Altogether, Thirty-Four meetings were held till 31<sup>st</sup> March 2008 wherein 910 applications were scrutinized and disposed off. Annexure I gives the details of Applications scrutinized and disposed of by the Technical Committee during the year.

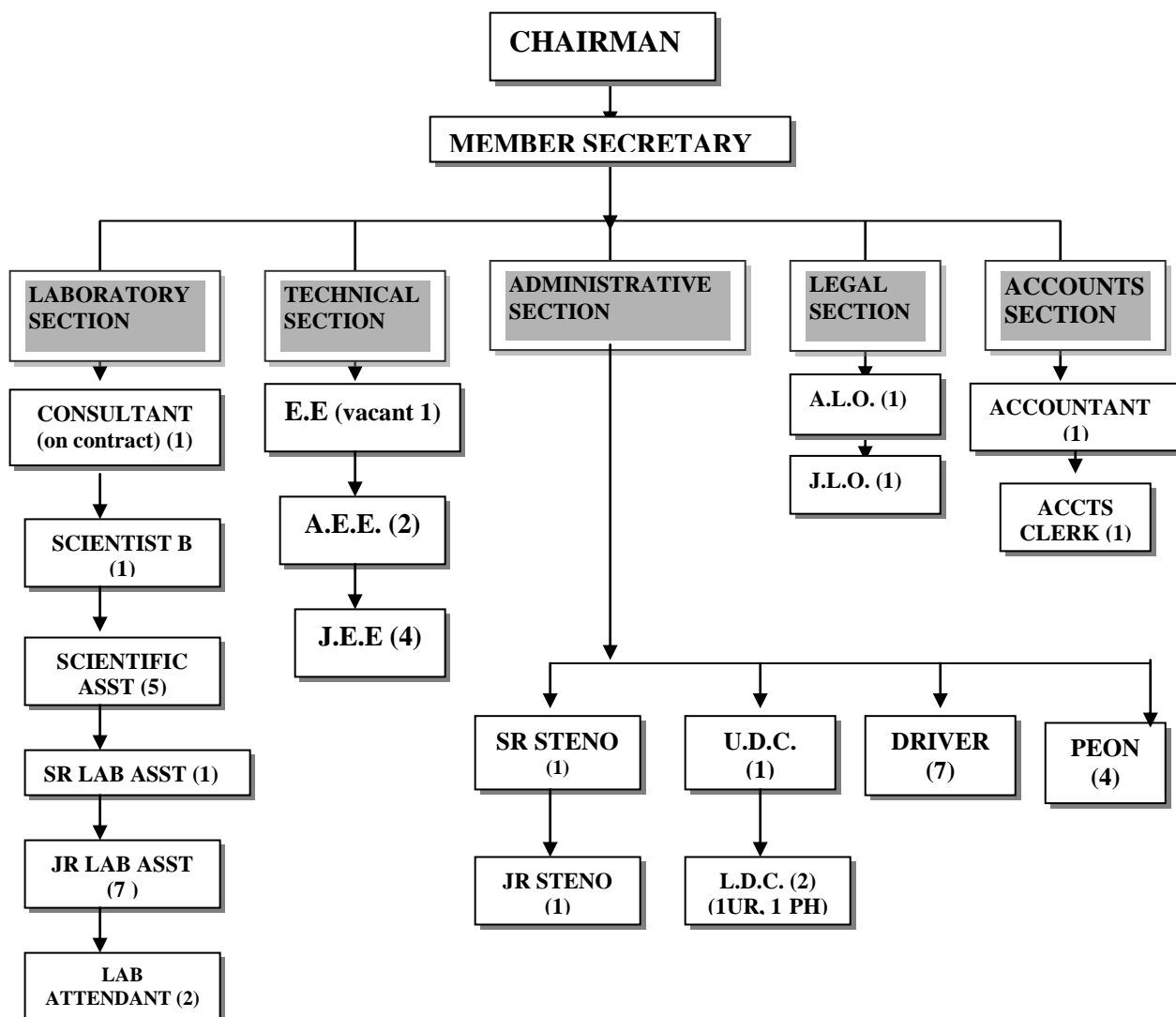
In order to bring transparency in the working of the Board, the Technical Committee meetings were held on every Tuesday wherein the applications were examined keeping in mind that the sole function of the Board is to ensure that all industries discharging effluents or gaseous emissions, shall meet the standards prescribed and published under EP Act, 1986. Minutes of the meeting were put up to the Chairman for approval on Wednesday. On approval of the minutes by the Chairman on Wednesday, the approved list was displayed on the Notice Board of Goa State Pollution Control Board, Website of Goa Chamber of Commerce & Industry, and Website of Goa State Pollution Control Board on Wednesday itself. The Consent Orders were dispatched by post to the concerned parties on Thursday. This procedure has brought total transparency in the working of the Board.

## CHAPTER 2

### THE ESTABLISHMENT

#### 2.1 STAFF OF GOA STATE POLLUTION CONTROL BOARD

##### ORGANIZATION CHART



Apart from the above employees, the Board has employed an additional 27 no. of employees on contract basis.

#### 2.2 INFRASTRUCTURE FACILITIES

##### 2.2.1 LABORATORY FACILITIES

The Board has two laboratories; on the 1<sup>st</sup> and the 4<sup>th</sup> floor of the office building. These laboratories are equipped with instruments and equipments for carrying out analysis of water, air and soil samples for chemical, physical and bacteriological parameters as well as trace and toxic metals, pesticides and organic components using sophisticated

instruments such as the Atomic Absorption Spectrophotometer with both Flame and Graphite Furnace modules and Gas Chromatograph.

Recently, the Board has initiated the process of procuring TOC and Microwave Digestion System through the funds provided by the Ministry of Environment & Forests by advertising in the local dailies. TOC is used in the determination of various forms of organic/inorganic carbon and nitrogen in liquid samples and organic carbon in solid samples. Microwave Digestion System is used for the digestion of samples for metal analysis. Apart from this, procurement of instruments such as Automatic Weather Monitoring Station (AWMS), CO Analyser, etc. is also in the pipeline.

**Plate 1-a : A view of the Boards Analytical Laboratory on the first floor**

**Plate 1-b : Board analysts working on the Atomic Absorption on the first floor  
of GSPCB**

**Plate 1-c : Board Analysts working in the instrumentation room**

**Plate 1-d : A view of the Boards Analytical Laboratory on the fourth floor**

**Plate 1-e : Board analyst working in the Microbiological Laboratory on the fourth floor**

**Plate 1-f : Board analyst working on the Gas Chromatograph on the fourth floor**

**Plate 1-g : Board analyst working on the Total Organic Carbon Analyzer on the fourth floor**

#### **2.2.2 WEATHER MONITORING STATION**

The meteorological data such as Wind Direction, Wind Speed, Temperature, Humidity, Solar Radiation and Rainfall can be generated using the Weather Monitoring Station (WMS). The WMS of the Board is used to record the data every hour. The observations for this financial year for Panaji are given in Annexure IV.

### **2.2.3 MOBILE LABORATORY**

The Board has two mobile laboratories, which are being extensively used for inspections and monitoring purposes. The Board is in the process of procuring a third mobile laboratory along with instruments. The funds for the instruments have been sanctioned by Central Pollution Control Board. The vehicle is purchased using the Board's funds.

### **2.3 FRONT OFFICE**

The front office of the Board is occupied by the Chairman's cabin, the Member Secretary's cabin, cabin of PA to Chairman, Visitor's lounge, Security and Inward Section. The Administrative, Technical, Legal and Accounts Sections are also located on the 1<sup>st</sup> Floor adjacent to the Front Office.

**Plate 2-a : View of the Chairman's Office**

**Plate 2-b : View of the office of the Member Secretary**



**Plate 2-c : View of the office of the Assistant Environmental Engineer**

**Plate 2-d : View of the Renovated Accounts Section**

## **2.4 LIBRARY FACILITIES**

The Board has a spacious library of its own on the 4<sup>th</sup> Floor. It has varied publications from different departments/institutions, such as MOEF, CPCB, other State Boards' Annual Reports, etc. Legal, accounts and technical books, ISI Specifications, etc. are also available in the Boards library.

## **2.5 CONFERENCE ROOM**

The Board has a spacious Conference Room on the 1<sup>st</sup> floor. It is fully air conditioned with a seating capacity for around 60 people and facilities like whiteboard, TV and Video. All Board Meetings and some other important meetings are held in the Conference Room.

**Plate 2-e : View of the Conference Room with a meeting in progress**

## **CHAPTER 3**

### **ACTIVITIES OF THE BOARD**

#### **3.1 MEETINGS OF THE BOARD**

During the year, 7 meetings of the Board were held as given in the Table:-

<b>Sr. No.</b>	<b>Sr. No. of Meeting</b>	<b>Date of meeting</b>	<b>Venue</b>	<b>No. of members who attended the meeting</b>
1.	80 <sup>th</sup>	11/04/2007	Board's Conference Hall	8
2.	81 <sup>st</sup>	15/05/2007	Board's Conference Hall	7
3.	82 <sup>nd</sup>	28/06/2007	Board's Conference Hall	10
4.	83 <sup>rd</sup>	12/10/2007	Board's Conference Hall	8
5.	84 <sup>th</sup>	31/12/2007	Board's Conference Hall	7
6.	85 <sup>th</sup>	08/02/2008	Board's Conference Hall	8
7.	86 <sup>th</sup>	07/03/2008	Board's Conference Hall	9
	86 <sup>th</sup> Contd.	17/03/2008	Board's Conference Hall	8
	86 <sup>th</sup> Contd.	28/03/2008	Board's Conference Hall	8

#### **3.2 OTHER IMPORTANT MEETINGS HELD**

##### **▪ Meeting on Common Bio-Medical Waste Treatment & Disposal Facility**

The GSPCB under the Chairmanship of Dr. L. U. Joshi organized a meeting on the 7<sup>th</sup> of February, 2008 to discuss about the setting up of a Common Bio-Medical Waste Treatment Facility (CBWTF) in Goa. The meeting was held in the Conference Room of the Board under the Chairmanship of Shri J. P. Singh (IAS), the Chief Secretary, Government of Goa. It was attended by representatives of various hospitals across the State. Dr. L.U. Joshi, Chairman, Shri A. G. Daiwajna, Member Secretary, Dr. Simon de Sousa, Consultant, Shri. S. Joglekar, A.E.E. and Shri Dilip Morazkar, Accountant of the Board attended the meeting. Plate 2-a, depicts the meeting in progress. Plates 2-b and 2-c show the welcoming of Shri J. P. Singh (IAS), the Chief Secretary, Government of Goa and the working of the Atomic Absorption Spectrophotometer respectively.

The Chairman of the Board informed that as per the provisions of the Bio Medical Waste (Management & Handling) Rules, 1998, the Hospitals and Municipal Councils are responsible for setting up of a CBWTF and as per Schedule VI of the Rules, a CBWTF should have been set up by at least 31/12/2002, which has not been done yet.

The Chief Secretary decided that the CBWTF should be set up at Dharbandora at the proposed site for setting up of Common Hazardous Waste Treatment Facility (CHWTSDf). He also stated that about 10,000 Sq.mts of the land identified for setting up of CHWTSDf should be spared for setting up a CBWTF. It was also decided to set up a Committee under the Chairmanship of Shri Anand Prakash, Development Commissioner & Secretary Health with other members from various hospitals and Member Secretary, GSPCB as one of the member.

Subsequently, a number of meetings were held during the year to finalise the site for Common Bio-Medical Waste Treatment & Disposal Facility.

**Plate 3-a : Meeting on Common Bio-Medical Waste Treatment & Disposal Facility in progress in the Conference Hall of the GSPCB**

**Plate 3-b : Dr. L. U. Joshi, Chairman, GSPCB welcoming Shri J. P. Singh (IAS), the Chief Secretary, Government of Goa for the meeting on Common Bio-Medical Waste Treatment & Disposal Facility**

**Plate 3-c : Chairman explaining the working of the Atomic Absorption Spectrophotometer to Shri J. P. Singh (IAS), the Chief Secretary, Government of Goa**

▪ **Meeting on Energy Conversion; Waste Plastic to Hydro-Carbon Fuel**

The GSPCB arranged a meeting for the officials from various Government Departments and the Municipal Administration and organized a presentation on Energy Conversion (Waste Plastic to Hydro-Carbon Fuel) through M/s Prime Automation, in the Conference Hall of the Goa State Pollution Control Board on 22<sup>nd</sup> February, 2008. The meeting was attended by Officials from Municipal Corporations and various Government Departments.

The meeting highlighted the feasibility of generating Hydro-Carbon fuel and/or Electricity/Power from waste plastic without polluting the environment. This technology can reduce considerable amount of solid waste going into the landfill. It also reduces Carbon Dioxide, Nitrogen Oxide and Sulphur Dioxide emissions into the environment.

▪ **Inspection of Laboratories by officials from MoEF, CPCB and GSPCB**

Ministry of Environment and Forests, New Delhi had constituted a Committee of the following three officials:

1. Dr. L.U. Joshi, Chairman, Goa State Pollution Control Board.
2. Dr. (Mrs) Nalini Bhat, Advisor, MoEF
3. Mr. Puttuswamy, Senior Scientist, Central Pollution Control Board

The main objective of the committee was inspection of the laboratories of M/s Sadekar Enviro Engineers Pvt. Ltd., Porvorim and M/s Sesa Goa Ltd., Environmental laboratory for recognition under Environment Protection Act, 1986.

Both the laboratories were inspected by the above committee and decided that certain clarifications and changes to be adopted by them. These changes are to be examined by Dr. L.U. Joshi, Chairman, Goa State Pollution Control Board after a period of one month and give recommendations to the Ministry of Environment and Forests, New Delhi.

After a month, the laboratories were revisited by Dr. L.U. Joshi, Chairman, GSPCB and the recommendations were forwarded to the Ministry of Environment and forests, New Delhi.

**Plate 3-d : Dr. L. U. Joshi, Chairman, Goa State Pollution Control Board, and Dr. (Mrs.) Nalini Bhat, Advisor, MoEF, New Delhi, inspecting the laboratory of M/s Sadekar Enviro Engineers Pvt. Ltd. at Porvorim**

▪ **TERI Project for Mass Awareness about Municipal Solid Waste Management.**

The Municipal Solid Waste has created an enormous problem to the human beings due to environment degradation. The dumping of the wastes in vacant plots, public spaces, nallas, creeks, rivers etc can lead to contamination of soil and water bodies. The waste carried by monsoon run-offs to rivers, lakes, seas etc affects the ecosystems. These wastes can clog drains and nallas thereby causing floods and damage to human life and property as well as plant and animal life. People are also getting exposed to rodents, insects etc which are attracted to the waste dumps.

The Central Pollution Control Board at the request of Dr. L. U. Joshi, Chairman, Goa State Pollution Control Board sanctioned Rs. 8.5 Lakhs for undertaking training and awareness programmes in solid waste management in the State of Goa.

The Board in its 82<sup>nd</sup> meeting held on 28/06/2007 agreed to award this programme to TERI (The Energy Research Institute). The first programme in Municipal Solid Waste Management training and awareness was decided to be held in Margao City at the request of Hon. Chief Minister Shri. D. V. Kamat.

Accordingly an inaugural function was held on 31/03/2008 at Margao which was well attended by Margao Municipal Councillors, staff concerned, citizens and media. The function was inaugurated by Hon. Chief Minister Shri. D. V. Kamat Govt. of Goa, Dr. L. U. Joshi, Chairman, Goa State Pollution Control Board, Shri. Johnson Fernandes, Chairperson, MMC, Shri. Y. B. Tavde, Chief Officer, MMC, Dr. B.S. Choudhary, Fellow & Area Convenor TERI, staff of GSPCB, etc.

Dr. L. U. Joshi, Chairman, Goa State Pollution Control Board urged MMC to take immediate steps for waste management in order to avoid environmental degradation as well as spread of diseases in Margao area. Hon. Chief Minister Shri. D. V. Kamat made an appeal to the councilors to make concerted efforts for effective waste management. Later TERI officials introduced how the project will be undertaken and sought the support of MMC to tackle the waste problem. The brain storming session and discussions were also undertaken amongst team members and other researchers within TERI. This has helped in developing strategies for the campaign as well as developing a plan of action to implement strategies into action.

### **3.3 MAJOR DECISIONS TAKEN BY THE BOARD**

#### **80<sup>TH</sup> MEETING OF THE BOARD**

In the 80<sup>th</sup> Meeting, the Board took the following decisions:

- To extend the contracts of the staff appointed under the Spatial Environmental Planning Programme by one year.
- To extend the benefit of the Goa State Civil Service (Grant of Leave to seek employment in India and Abroad) Rules, 2002 circulated vide notification no. 2/5/95-PER dated 2/01/2003, and grant two years extraordinary leave to Shri Pedro Cleto Fernandes, Driver of the Board. The members also approved that in lieu of the post of Shri Pedro Cleto Fernandes, the contract of Shri Chandrashekar Parab, who has been working as Driver on contract basis since last one year, be extended for further period of two years.
- To grant renewal of Water and Air consents to M/s Nicomet Industries Ltd.
- Revocation of the closure directions issued to M/s Sunrise Electromelt Ltd., M/s Shri Balaji Rollings Pvt. Ltd., M/s Puja Ferro Alloys Pvt. Ltd., M/s Grovemark and M/s Sandu Pharmaceuticals Ltd. Further the members approved that in such cases the units be issued Show Cause Notices giving 15 days time and also that

a meeting of all Induction Furnace units, Sponge Iron units and Submerged Arc Furnace units be called and directed to procure their own Stack Monitoring Kits and carry out daily monitoring and submit the reports to the Board. The outcome of the meeting should be placed before the Board.

- To issue consent to Operate (New) to M/s Goa Energy Ltd. with a condition that the treated effluent prior to discharge into the river should meet the standards prescribed in EPA Rules and that the monitoring of the river water be carried out upstream and downstream fortnightly and submit the reports to the Board.

### **81<sup>ST</sup> MEETING OF THE BOARD**

In the 81<sup>st</sup> Meeting, the Board took the following decisions:

- Approval of the audited account of the Board for the year 2000-2001.

### **82<sup>ND</sup> MEETING OF THE BOARD**

In the 82<sup>nd</sup> Meeting, the Board took the following decisions:

- Approval of the Auditors Report of the Board for the year 2000-2001.
- The Board had given a six months period to the Sponge Iron units to comply with the conditions imposed on them. The Board also decided that NEERI, Nagpur should inspect and conduct a study of all the five Sponge Iron units in Goa with regard to the siting and measures to control pollution. NEERI could not submit the report within the six months and therefore the units sought extension of time. Extension of time for a further period of six months was approved subject to leave of the Court and submission of Bank Guarantee for a period of six months.
- The Board approved to initiate a study of the slag generated from induction furnace units and Ferro Alloy Manganese units in Cuncolim Industrial Estate through Central Road Research Institute (CRRI) for its use as material for road filling and recover the amount from the industries generating slag. It was also decided that on receipt of the report from CRRI the same should be forwarded to PWD for incorporating the same into the schedule.
- The Board approved the proposal to deposit the Board's share towards EPF contribution with interest in the EPF account of the employees which was earlier deposited in Savings Bank account.
- The Board approved that the hotels / lodgings boardings of all categories including starred category having less than 50 rooms shall have a validity period of 5 years and those having 50 rooms or more shall have a validity period of 2 years. It was also approved to waive off fees and late fees for the past period and impose one fee for the past period and one fee for the subsequent period.
- Approval of enhancement in remuneration for Data Entry Operator from Rs. 4000/- per month to Rs. 5000/- per month and LDC from Rs. 3500/- to Rs. 5000/-.
- The Board approved to award the work of mass awareness Programme for Municipal Solid Waste to M/s TERI (The Energy & Resources Institute) at the quoted rate of Rs. 8,55,680/-. An amount of Rs. 8.5 Lakhs has been sanctioned by the Central Pollution Control Board of which Rs. 4.25 Lakhs has been released to carry out the mass awareness programme.
- Creation of two posts of sweeper cum scavenger on contract basis for one year extendable to another year on a consolidated remuneration of Rs 3000/- per month.
- Filling up the post of Data Entry Operator and Field Assistant for one year extendable to another year on a consolidated remuneration of Rs 5000/- per month.

### **83<sup>RD</sup> MEETING OF THE BOARD**

In the 83<sup>rd</sup> Meeting, the Board took the following decisions:

- On perusal of the NEERI Report (Analysis of Process Dust) on the Sponge Iron units, it was approved to issue directions to the Sponge units as follows until the receipt of report from CPCB:
  - a) To store the process dust in a covered shed with a bottom liner.
  - b) To conduct TCLP tests on bricks through a laboratory recognized by MoEF and submit a report to the Board.
  - c) To submit an application to amend the Hazardous Waste Authorization to include process dust and
  - d) To submit fortnightly reports on generation and utilization of the process dust for production of bricks.
  - e) To direct M/s Jain Udyog to conduct Rapid EIA through MoEF approved laboratory and submit the same within six months.
  - f) To direct M/s Ambey Metallic to comply with the conditions imposed by the Board in the modified consent and the recommendations made by NEERI in its report and to raise the stack height to 50mts. To direct the unit to carry out a study on the operation and efficiency of the existing ETP for treated and untreated scrubber effluent and measure levels of As, Cd, Mn and Cr with regards to the regulatory limits through MoEF approved laboratory.
  - g) To direct M/s Goa Sponge & Power Ltd. to comply with the conditions imposed by the Board in the modified consent and the recommendations made by NEERI in its report and to raise the stack height to 65mts.
  - h) To direct M/s Shraddha Ispat Pvt. Ltd. to comply with the conditions imposed by the Board in the modified consent and the recommendations made by NEERI in its report and to raise the stack height to 60mts.
  - i) To direct M/s Srithik Ispat Pvt. Ltd. to comply with the conditions imposed by the Board in the modified consent and the recommendations made by NEERI in its report and to raise the stack height to 50mts.
  - j) That all the Sponge Iron units in Goa shall provide a metalled road within the premises within a period of one year and allow the units a six months time period to comply with conditions imposed by the Board in the modified consent and the recommendations made by NEERI in its report.

All the above conditions are subject to the leave of the Hon. High Court.
- Ex post facto sanction for air travel to Shri Sanjeev Joglekar to attend meeting convened by Chairman, CPCB regarding inventory of Hazardous waste generating units.
- Enhancement in the consolidated pay of Shri Chaitanya Salgaonkar to Rs. 8000/- from Rs. 6000/- and that of Shri Chandrashekar Parab to Rs. 5000/- from Rs. 4500/- on monthly basis.
- Approval of the revised estimate for the year 2007-2008 and budget estimate for the year 2008-2009.
- Ex post facto sanction for availing services of Shri C. Y. Ramani, Chartered accountant for preparation of accounts of the Board and continuation of his services for a further period of two years.
- Extending Leave Encashment, providing Computer and Motor Car advance facilities to all the Board employees as approved by the Government of Goa vide Notifications no. 6/5/87-PER dated 30/03/07, no. 7/1/07-FIN(Exp)(2) dated 29/03/07 and no. 7/1/07-FIN(Exp)(1) dated 23/03/07.
- Grant of HRA of 1000/- to the staff employed under SEPP.
- That the Board may initiate a study through Central Road Research institute (CRRI) for use of slag generated from the Induction Furnaces units, Ferro Manganese Alloy units, Submerged Arc Furnace units and Pig Iron units as material for road filling and forward the report of CRRI to PWD requesting to incorporate the same in the Schedule as the use of slag will reduce the requirement of mud utilized for road filling.



## **84<sup>TH</sup> MEETING OF THE BOARD**

In the 84<sup>th</sup> Meeting, the Board took the following decisions:

- The Annual Report of the Board for the year 2006-2007 to be forwarded to the Government.
- Appointment of Shri Anil Parab as Security Guard on contract basis for a period of one year.
- To conduct a survey and assess contamination type and levels of ground water resources (Lakes, Public Bore Wells, Private Wells and other Water Bodies) for Pilerne Industrial Estate through a laboratory recognized by MoEF under the EP Act and recover the cost incurred from the industries within the industrial estate. It has also been decided to carry out such studies for Verna industrial Estate and Kundaim Industrial Estate.
- Purchase of new office premise at Margao admeasuring about 170-200 sq.mts to set up Regional Laboratory and office by advertising on local dailies. It has also been decided to appoint a Committee for the same.
- Approval in principle for construction of building for additional office space in collaboration with Goa Konkani Academy.
- Outsourcing of Stack and Ambient Air Quality Monitoring work for industries categorized as Red Category Industries by MoEF.
- Extension of contract of Mrs. Anunciacao Colaco, Junior Research Assistant for a further period of one year.
- Approval for playing music continuously for more than 7 days in a month and to obtain the consent of the Goa State Pollution Control Board.

## **85<sup>TH</sup> MEETING OF THE BOARD**

In the 85<sup>th</sup> Meeting, the Board took the following decisions:

- Constitution of Committee for purchase of new premises to set up Regional Laboratory cum Office at Margao.
- Extension of contract of Shri Chaitanya Salgaonkar, Scientific Assistant of the Board for a further period of one year with increase in pay.
- Approval of EIA Reports submitted by the units in Kundaim, Madkaim and Cuncolim Industrial Estates and to direct all the Induction Furnace units, Submerged Arc Furnace units and Ferro Alloy units generating slag to identify laterite quarries for disposal of the same as per the recommendations of the EIA report and that of NEERI, Nagpur.
- Approval for amendment in the Rule 22 of the Goa Water (Prevention & Control of pollution) Rules, 1988 as amended for enhancement of the consolidated salary of the Consultant to be appointed by the Board and for forwarding the same to Director, Department of Science, Technology & Enviroment for issue of amendment to the said Rule.
- To carry out ambient air quality monitoring twice a week in areas affected due to transportation of iron ore through MoEF approved laboratory and recover the cost from the mining companies operating in the area.
- Approval for creation of one post of Record Keeper on contract basis to maintain records as per the provisions of Right to Information Act and two posts of Sweepers (contract basis).
- Amendment of decision taken in the 84<sup>th</sup> Board meeting regarding applications received for playing music continuously for more than seven days. It has been decided to carry out noise level monitoring for applications received from hotels/establishments etc. by charging a sum of Rs. 3000/- and submit the Noise Level Monitoring Report to the Collector/Sub Divisional Magistrate.
- Approval for fees to be paid to the legal counsel.

- Appointment of Consultant for obtaining National Accreditation Board for Testing and Calibration for Laboratories (NABL) for the Board Laboratory on payment of honorarium of Rs. 3 Lakhs plus traveling and accommodation expenses.

### **86<sup>TH</sup> MEETING OF THE BOARD**

In the 86<sup>th</sup> Meeting, the Board took the following decisions:

- Grant of Extraordinary Leave to Shri Lourence D'Souza, Peon and appointment of a Peon on contract basis for the said period as a substitute.
- Grant of Consent to Establish a Captive Landfill Site to M/s Nicomet Industries Ltd. in the existing quarry portion within Cuncolim Industrial Estate allotted by GIDC subject to conditions laid down by the Board.
- Grant of Consent to operate M/s Jain Udyog under the Water and Air acts for a period of one year after inspection to verify the compliance status with regard to the conditions imposed in the consent to operate for trial production and the additional conditions imposed thereafter as recommended in the draft guidelines issued by the Central Pollution Control Board with regards to the Sponge Iron Plants. Grant of consent is subject to conditions laid down by the Board.
- To reject grant of Consent to Operate the Jetty at Bhagwad – Shirfod to M/s G. N. Agarwal for non-compliance of the conditions stipulated in the 78<sup>th</sup> Board meeting and the location of the jetty being in a residential area.
- Grant of Consent to Operate under the Water and Air Acts the Oilem Arvalem Iron ore and Manganese ore mine to M/s H. L. Nathurmali.
- Grant of Consent to Operate under Water and Air Acts the Monte-de-Sirigao iron ore mine to M/s Rajaram Bandekar(Sirigao) Mines Pvt.Ltd.; Renewal of Consent to Operate under the Air Act to M/s Chowgule & Co. (Sirigao Iron Ore Mine) and drop the Show Cause Notice issued to M/s Dempo Mining Corporation Ltd. (Bicholim Iron Ore Mine) subject to conditions and after informing the High Court since these mines were involved in a High Court Writ Petition with respect to complaints from the public.
- Grant of Consent to Establish a Slag Grinding Unit to M/s Alcon Developers at Pissurlem Industrial Estate after ascertaining that the unit has complied with all the pollution control norms.
- Grant of Consent to Establish a Standby Incinerator to M/s Syngenta India Ltd. subject to conditions.
- To forward and recommend the State Environmental Atlas, Zoning Atlas for Siting of Industries and Industrial Siting Guidelines prepared by the Board under the Spatial Environmental Planning programme sponsored by Central Pollution Control Board, New Delhi to the Government for implementation.
- Renewal of the contract for the four officials appointed under the SEPP Programme for a further period of one year.

### **3.4 VARIOUS FUNCTIONS PERFORMED BY THE BOARD**

The State Pollution Control Board has been empowered to perform the following functions under the Water (Prevention and Control of Pollution) Act, 1974 and the Air (Prevention and Control of Pollution) Act, 1981.

#### **3.4.1 OBJECTIVES AND APPROACH**

The functions listed below are directed towards the effective control of water and air pollution and thus to maintain and restore, wherever necessary, the wholesomeness of

water for various designated best uses, to preserve the quality of air as per requirement of ambient air quality. The Goa State Pollution Control Board aims to achieve these objectives through:

- Control on quality of effluents and emissions from existing industrial units by periodical monitoring through surprise inspections and analysis of their effluent and emission samples.
- Maintain suitable industrial development by selecting non polluting industries and the industries with effective arrangements for treatment and disposal of effluents and solid wastes.
- Development of database to prepare water use and water quality maps and air quality zone use.

#### **3.4.2 Functions under the Water (Prevention and Control of Pollution) Act, 1974**

- (a) To plan a comprehensive program for the prevention, control or abatement of pollution of streams and wells in the State and to secure the execution thereof.
- (b) To advise the State Government on any matter concerning the prevention, control or abatement of water pollution.
- (c) To collect and disseminate information relating to water pollution and the prevention, control or abatement thereof;
- (d) To encourage, conduct and participate in investigations and research relating to problems of water pollution and prevention, control or abatement of water pollution;
- (e) To collaborate with the Central Board in organizing the training of persons engaged or to be engaged in programs relating to prevention, control or abatement of water pollution and to organize mass education programs relating thereto;
- (f) To inspect sewage or trade effluents, works and plants for the treatment of sewage and trade effluents and to review plants, specifications or other data relating to plants setup for the treatment of water, works for the purification thereof and the system for the disposal of sewage or trade effluents in connection with the grant of consent, as required by this Act.
- (g) 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 interstate stream) resulting from the discharge of effluents and to classify waters of the State.
- (h) 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 specially the prevailing flow characteristics of water in streams and wells which render it impossible to attain even the minimum degree of dilution;
- (i) To evolve methods of utilization of sewage and suitable trade effluents in agriculture

- (j) 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,
- (k) To lay down standards of treatment of sewage and trade effluents 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.
- (l) To make, vary or revoke any order:-
  - (i) For the prevention, control or abatement of discharge 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;
- (m) To lay down effluent standards to be complied with by persons while causing discharge of sewage or sullage on both and to lay down, modify or annul effluent standards for the sewage and trade effluents;
- (n) To advice the State Govt. with respect to the location of any industry, the carrying on of which is likely to pollute a stream or well;
- (o) To perform such other functions as may be prescribed or may, from time to time be entrusted to it by the Central Board or the State Government.

### **3.4.3 Functions under the Air (Prevention and Control of Pollution) Act, 1981**

- (a) To plan a comprehensive program for the prevention, control or abatement of air pollution and to secure the execution thereof.
- (b) To advice the State Government on any matter concerning the prevention, control or abatement of air pollution.
- (c) To collect and disseminate information relating to air pollution.
- (d) To collaborate with the Central Board in organizing the training of persons engaged or to be engaged in programs relating to prevention, control or abatement of air pollution and to organize mass education programs relating thereto;
- (e) To inspect, at all reasonable times, any control equipment, the prevention, control or abatement of air pollution in such areas, such directions to such persons as it may consider necessary to take steps for the prevention, control or abatement of air pollution.
- (f) To inspect air pollution control areas at such intervals as it think may be necessary, to assess the quality of air therein and to take steps for the prevention, control or abatement of air pollution.
- (g) 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 other source whatsoever not being a ship or an aircraft; provided that different standard for emission may be laid down under this clause for different industrial plants having regard to the quantity and composition of emission of air pollutants into the atmosphere from such industrial plants;

- (h) To advise the State Government with respect to the suitability of any premises or location for carrying on any industry which is likely to cause air pollution;
- (i) 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.
- (j) To do such other things and to perform such other Acts as it may think necessary for the proper discharge of its functions and generally for the purpose of carrying into effect the purposes of this Act.

Note: The Government of Goa vide Notification No. 14-1-88-STE dated 2-1-92 has extended the air pollution control area over the whole State of Goa.

### **3.4.4 INSPECTIONS**

#### **3.4.4.1 REGULAR INSPECTIONS**

The Goa State Pollution Control Board conducts inspections of the Industrial Units on regular basis, as required under the Water (Prevention & Control of Pollution) Act, 1974 and Air (Prevention & Control of Pollution) Act, 1981. The inspections are carried out as follows:

- (i) Before the plant is commissioned / established, Consent to Establish (NOC) is issued for construction of the shed and establishing the machinery. After commissioning, the unit is inspected and Consent to Operate under Water Act or Air Act is granted, accordingly.
- (ii) Once the plant is in operation, the consents to operate under Water/Air Act have to be renewed periodically. At this stage the unit is inspected and samples are collected and analyzed in the Boards' laboratory to check the compliance of the consent conditions. Consent renewal orders are issued to the complying units.

#### **3.4.4.2 SURPRISE INSPECTIONS**

Besides the above regular inspections, surprise inspections are also being conducted to check the compliance by the units. To achieve this, industrial monitoring programmes are held at regular intervals, wherein the units are inspected at random with respect to the consent conditions. Samples of waste water, ambient air and stack emissions are collected and analysed in the Board laboratory.

During the year under report industrial monitoring programmes were conducted for mining industries, industries under the 17 categories, steel industries (sponge iron and induction furnace units) and stone crushing units at St. Jose de Areal.

#### **3.4.4.3 OTHER INSPECTIONS**

Inspections in response to public complaints regarding Air /Water pollution, Hazardous Waste, Municipal Solid Waste, Biomedical Waste and Noise Pollution are also attended to by the Boards' officials as and when such complaints are received by the Board.

### **3.4.5 SAMPLING AND ANALYSIS OF INDUSTRIAL EFFLUENTS**

The Board has established its own laboratories on the 1<sup>st</sup> and 4<sup>th</sup> floor of Dempo Tower with the funds from MoEF and CPCB, New Delhi obtained as a result of the interaction of the Chairman. The laboratories are well equipped with modern instruments to carry out water, air and soil analyses for physical, chemical and microbiological parameters.

During the period from April 2007 to March 2008 the Board had collected 347 samples of industrial effluents and analyzed the same for the following parameters: pH, Biochemical Oxygen Demand, Chemical Oxygen Demand, Suspended solids and Oil and Grease, trace and heavy metals, etc.. Apart from this the Board has also collected and analyzed 175 samples from different sources such as rivers, wells, springs, streams, lakes, canals, sea, nallah, etc. 29 solid samples were analysed for metals during the year.

The Board conducts ambient air and source emissions monitoring for industries in Goa. A total of 18 stack monitoring programmes were carried out during the year. Samples were collected and analysed for air pollutants such as SPM, RSPM, SO<sub>2</sub> and NO<sub>x</sub> for ambient air and Particulate Matter for stacks.

For collection and analysis of air, water and sediment samples, fees are being charged as per the guidelines of the Central Pollution Control Board. The total revenue generated through analysis of samples during the year under report is Rs. 92,340/-.

### **3.4.6 SPONSORED PROJECTS**

Apart from its regular activities, the Board has been implementing the following sponsored projects.

#### **3.4.6.1 National Water Quality Monitoring Programme (NWMP)**

It is an ongoing project sponsored by the Central Pollution Control Board, New Delhi. Under this project, the Board has been monitoring the water quality of the following rivers.

1. Mandovi at Panaji
2. Mandovi at Tonca-Marcela
3. Zuari at Cortalim
4. Zuari at Panchwadi
5. Khandepar at Opa, Ponda
6. Madei at Dabose, Valpoi
7. Valvanti at Sanquelim
8. Assanora at Assanora
9. Kalna at Chandel, Pernem
10. Talpona at Canacona
11. Salaulim dam at Salaulim, Sanguem

Hundred and Twenty four water samples were collected from all these rivers and analyzed during the year (Hundred and Three samples for 14 parameters during the regular monitoring and eleven samples for 22 parameters during annual monitoring). The following parameters were analyzed on regular basis: Temperature, pH, Conductivity, Turbidity, Nitrate-Nitrogen, Nitrite-Nitrogen, Ammonia-Nitrogen, Phosphates, DO, BOD, COD, Chlorides, Total Coliform and Faecal Coliform. In addition to these the following parameters were analyzed during the annual monitoring: Copper, Cobalt, Zinc, Nickel, Cadmium, Chromium and Arsenic.

The GSPCB vide letter no 3/10/05-PCB/Vol. V/2969 dated 24/09/2007 had put up a proposal to the CPCB for sanctioning new stations under the National Water Monitoring Programme (NWMP). CPCB vide letter no. A-19014/4/2004-MON/9440 dated 04/02/2008 has sanctioned 18 new stations in addition to the existing 11 stations. The locations, frequency and months of monitoring, methods of analysis to be used and the charges for sampling and analysis are given separately. The total 29 stations are divided into three groups i.e., (i) 11 stations to be monitored monthly, (ii) 12 stations to be monitored quarterly and (iii) 6 stations to be monitored half yearly.

During the month of March 2008, the Board has monitored the water quality of the following 11 rivers:

1. River Zuari at Cortalim
2. Creek at Dando Mollo Velsao, Mormugao
3. Cumbarjua Canal, Corlim (Discharge point of Syngenta Ltd.)
4. Mayem Lake, Bicholim
5. River Khandepar at Codli near bridge, u/s Opa water works, Sanguem
6. River Sal, Pazorkhoni, Cuncolim (nr culvert, Margao-Canacona National Highway)
7. River Kushawati nr bundh at Kevona, Rivona, Sanguem
8. River Sal nr Hotel Leela, Mobor, Cavelossim
9. River Mapusa on culvert on Mapusa-Panaji Highway
10. River Chapora near Alorna Fort, Pernem
11. River Bicholim, Barazan Nagar, Bicholim

The analytical results show that all the rivers satisfy the quality requirement of the designated best uses as recommended by Central Pollution Control Board. The water quality data for the rivers observed during the year are given in Annexure II.

The remaining new stations are as follows:

1. Agricultural Canal u/s of Cuncolim Industrial Estate (1Km from M/s Nicomet Industris Ltd.)
2. Agricultural Canal d/s of Cuncolim Industrial Estate (near railwaybridge)
3. Verna Industrial Estate (well of M/s Cipla Ltd.)
4. Sancoale Industrial Estate (well)
5. M/s Zuari Industries Ltd., Zuari nagar (well)
6. Kundaim Industrial Estate (well of M/s Cadilla Health Care Ltd.)
7. Corlim Industrial Estate (well)
8. Pilerne Industrial Estate (well of M/s Unichem)

Views of some of the monitoring locations established under this project are shown in the following pictures.

**Plate 4-b: View of Mayem Lake, Bicholim**

**Plate 4-c: View of the River Bicholim, Barazan Nagar, Bicholim**

**Plate 4-d: View of the Creek at Dando Mollo, Velsao, Marmugao**



**Plate 4-e: View of the River Sal near Hotel Leela, Mobor, Cavelossim**

**Plate 4-f: View of River Sal, Pazorkhoni, Cuncolim (near the culvert on Margao-Canacona ational Highway)**

**Plate 4-g: View of River Kushawati near bund at Kevona, Rivona, Sanguem**

**Plate 4-h: View of the Agricultural Canal upstream of the Cuncolim Industrial Estate**

**Plate 4-i: View of the Agricultural Canal downstream of the Cuncolim Industrial Estate**

**Plate 4-j: View of River Chapora near Alorna Fort at Pernem**

**Plate 4-k: View of River Kalna at Chandel, Pernem**

**Plate 4-l: Official of the Board measuring the water current using the Water Current Meter**

**3.4.6.2 NAMP (National Air Monitoring Programme)**

This is an ongoing activity funded by the Central Pollution Control Board, New Delhi under the National Air Monitoring Programme (NAMP). Under this programme the Board continued to monitor the ambient air quality at Vasco, MPT at Mormugao and Panaji.

The Ambient Air samples were collected at each station twice a week, as per the standard norms for ambient air quality monitoring, and normal parameters like RSPM, SPM, SO<sub>2</sub> and NO<sub>x</sub> were analyzed. The ambient air quality data for these stations observed during the year are given in Annexure III. The analytical results show that all the above parameters are within the limits prescribed for ambient air quality.

**3.4.6.3 SPATIAL ENVIRONMENTAL PLANNING PROGRAMME**

The Spatial Environmental Planning Program was conceptualized for ensuring the protection of the environment and its resources through planned and sustainable development. Sponsored by the Central Pollution Control Board, the program commenced,

in 1995 in 14 volunteering states with district wise environment assessments for siting of industries. The program although initially catered to siting of industries, was expanded subsequently to cater to siting of industrial estates, compilation of environmental information, environmental improvement of urban areas/mining areas/tourism areas, etc.

The Goa State Pollution Control Board took up this project in August 2005. Under this Project, 4 Junior Research Fellows and 1 Data Entry Operator were employed to carry out the project activities.

From the year 2005, five activities under Spatial Environmental Planning Program were taken up namely; preparation of State Environmental Atlas, preparation of District Environmental Atlas, Revision of District wise Zoning Atlas for Districts for which Zoning Atlas were completed earlier, and preparation of State Level Guidelines for Siting of Industries and preparation of District Specific Guidelines for Siting of Industries. Owing to the small size of the state of Goa and since Goa consists of only 2 districts, the State Environmental Atlas and the District Environmental Atlas are merged together.

The activities under the Program include the following:

**1. Preparation of State Environmental Atlas for the State of Goa:**

The State Environmental Atlas is a compilation of environment related information in the form of maps, texts and statistical data. The maps in the Atlas are in the scale 1:50,000.

The State Environmental Atlas includes information on the administrative divisions of Goa, settlement locations, transportation network, climatic details of Goa, natural hazards, land use, physiography, wastelands, soil types, land capability, drainage, irrigation potential, ground water potential, hydrogeomorphology, surface water use, surface water flow, ground water use, biological diversity, incompatible land use areas, location of industrial estates, location of mines, solid waste generation, vehicular pollution, domestic sewage load, consumption of fertilizers and pesticides, air quality, water quality and ground water quality in the State.

**2. Revision of Zoning Atlas for Siting of Industries for North Goa and South Goa Districts:**

The Zoning Atlas for Siting of Industries interrelates the sensitivity of the environment with the pollution potential of industries so as to identify sites with minimal environmental impacts/risks as per the revised criteria. The Zoning Atlas report will be used only for official purposes to develop district-specific Industrial Siting Guidelines. The maps in the Atlas are in the scale 1:50,000.

The Zoning Atlas for Siting of Industries includes information on the environmentally sensitive zones in the State, site suitability for air and water polluting industries and zones for industrial siting.

**3. Preparation of Industrial Siting Guidelines for North Goa and South Goa Districts:**

The Industrial Siting Guidelines clearly bring out the information on environmentally sensitive zones/areas to be avoided for location of industries or carrying of processes or operations to be restricted in the district, potential zones for siting of air and water polluting industries or carrying of processes or operations that may be considered for siting anywhere in the district, other than environmentally sensitive zones/areas to be avoided for priority districts. This will be an instrument for implementing the Zoning Atlas for Siting of Industries. The Zoning Atlas for Siting of Industries will be used to develop these guidelines.

The Industrial Siting Guidelines includes information on the environmentally sensitive zones/areas to be avoided for location of industries or carrying of processes or operations such as biological diversity of an area and the sensitive/incompatible land

uses, site suitability for industries (air and/or water pollution sensitivity), industries or carrying of processes or operations to be restricted such as restricted industries in the districts, industries that may be considered for siting of state of the art manufacturing process and/or Best Available Treatment Technology (BAT) is installed for wastes/effluents/emissions, siting of industries in urban areas/sites and siting of non-polluting industries, and a list of industries or carrying of processes or operations that may be considered for siting anywhere in the districts, other than environmentally sensitive zones/areas to be avoided.

All the above three reports have been finalized and the drafts have been approved by the CPCB. The Draft Reports are forwarded to the State Government for final approval and implementation.

### **3.4.7 ELECTRONIC DISPLAY BOARDS**

The concentration levels of SO<sub>2</sub>, NO<sub>x</sub>, SPM and RSPM in the ambient air monitored and measured by the Board were regularly displayed on the Electronic Display Board located at the Panaji Bus Stand. The Board in collaboration with M/s Sesa Goa Ltd., M/s Syngenta India Ltd. and M/s Ciba Speciality Chemicals Ltd. has put up similar electronic display boards at the respective factory sites.

### **3.4.8 IMPLEMENTATION OF HAZARDOUS WASTE (MANAGEMENT & HANDLING) RULES, 1989 & AMENDMENT.**

At present Goa State Pollution Control Board has identified 248 hazardous waste generating industries in Goa and authorizations have been granted for 248 industries (since inception of rules). During the year under report, 152 units have been granted authorization (new/renewals) under the Hazardous Waste (Management & Handling) Rules, 1989. The details such as location of the unit, categories of hazardous waste, quantity generated and mode of disposal are given in Table 5 in Annexure V.

### **3.4.9 IMPLEMENTATION OF BIO-MEDICAL WASTE (MANAGEMENT & HANDLING) RULES, 1988**

For implementation of the Bio-Medical Waste (Management and Handling) Rules 1988, Hospitals have been classified as per their bedded capacity.

1. Category 1:	With 500 beds and above	1 No.
2. Category 2:	With 200 beds and above, but less than 500	2 Nos.
3. Category 3:	With 50 beds and above, but less than 200	15 Nos.
4. Category 4:	With beds less than 50	164 Nos.

Till 31/03/2008, 171 Hospitals and 11 Veterinary units were granted authorizations under the Bio-Medical Waste (Management & Handling) Rules, 1988. The status of the Bio Medical waste generated during the year is given as Table 6 in Annexure VI.

### **3.4.10 NOISE POLLUTION REGULATION & CONTROL RULES, 2000**

The Board is monitoring noise levels where specific complaints of noise pollution are received and action is being taken accordingly. In pursuance of clause (c) of rule 2 of the Noise Pollution Regulation & Control Rules, 2000, the Government of Goa vide Notification No. 2/51/2000 –II D (G) Vol I has designated (1) District Magistrates (2) Director General of Police (3) Deputy Collector and Sub-Divisional Magistrates (4) Superintendent of Police and

Sub-Divisional Police Officers as 'authority' for the maintenance of ambient air quality standards in respect of noise under the said rules, with effect from 21.09.2000.

#### **3.4.11 IMPLEMENTATION OF MUNICIPAL SOLID WASTES (MANAGEMENT & HANDLING) RULES, 2000**

The Board has issued authorization to all the 14 local bodies under the Municipal Solid waste (Management & Handling) Rules. Five Municipal bodies have partly adopted effective composting methods for processing of their wastes.

#### **3.4.12 LEGAL MATTERS OF THE BOARD**

##### **STATUS OF THE CASES FILED BY THE BOARD DURING THE YEAR 2006-2007**

The status of the major cases filed by the Board and pending in the High Court of Bombay at Goa are presented in Annexure VII. Annexure VIII gives the details of mining companies wherein Environmental Public hearing process is complete.

#### **3.4.13 FINANCE AND ACCOUNTS OF THE BOARD**

As per sub-section 2 & 3 of section 40 of the Water (Prevention and Control of Pollution) Act, 1974, the accounts of the Board are to be audited by an Auditor duly qualified to act as an Auditor of Companies under section 226 of the Companies Act, 1956. The said Auditor is to be appointed by the State Government on the advice of Comptroller & Auditor General of India (CAG).

Auditing of the accounts for the year 2000-2001 is in progress and thereafter 2001-2002 auditing will be taken up. Auditors for auditing of the accounts for the year 2002-2003, 2003-2004, 2004-2005 are being appointed by the State Government on the advice of CAG.

#### **3.4.14 IMPLEMENTATION OF THE SUPREME COURT GUIDELINES ON PREVENTION OF SEXUAL HARASSMENT OF WOMEN AT WORKPLACE**

Information in this regard, as per the Supreme Court judgment dated 13/08/1997, is that no complaints about sexual harassment were received during the financial year covered by this report.

## **CHAPTER 4**

### **HUMAN RESOURCES DEVELOPMENT**

#### **4.1 TRAINING / WORKSHOPS/ SEMINARS ATTENDED BY BOARD OFFICIALS**

During the year under report, the officials attended training programmes / workshops / seminars organized by reputed Institutes across the Country as follows:

<b>Sr. No.</b>	<b>Name &amp; Designation of the Official</b>	<b>Title of the Seminar</b>	<b>Duration</b>	<b>Organizing Institute</b>
1.	Shri Sanjay Kankonkar, Sci. Asst.	Training Programme on Physico Chemical & Microbiological Methods for Water Quality Testing	1 <sup>st</sup> – 5 <sup>th</sup> May, 2007	EPTRI, Hyderabad
2.	Shri Ramsey Braganza, Sci. Asst.			
3.	Kum. Anny Dias, Sci. Asst.	Bio Medical Waste Management, Handling & Safe Disposal	23 <sup>rd</sup> – 27 <sup>th</sup> July, 2007	EPTRI, Hyderabad
4.	Kum. Livia D'Silva, Sci. Asst.			
5.	Shri Nilesh Parsekar, Sci. Asst.	Sampling, Analysis & Characterization of Hazardous Waste including Hazardous Waste Management Related Activities	10 <sup>th</sup> – 14 <sup>th</sup> September, 2007	EPTRI, Hyderabad
6.	Kum. Edma Fernandes, JRF	Tributyltin Training Programme cum Workshop	19 <sup>th</sup> – 20 <sup>th</sup> November, 2007	NIO, Donapaula - Goa
7.	Kum. Joshna Parab, JRF			
8.	Kum. Edma Fernandes, JRF	Fundamentals of Gas Chromatography and Utilization of Software		PerkinElmer (India) Pvt. Ltd., Mumbai
9.	Kum. Anny Dias, Sci. Asst.			

#### **4.2 TRAINING IMPARTED BY THE BOARD**

The Board laboratory provides free training to students from Schools, Colleges and other Educational Institutions. Trainings with respect to air and water sampling and analysis of environmental parameters are conducted for officials from industries after charging a fee. The trainings provided during the year are given in the following table. The Board has collected an amount of Rs. 30,260/- through such training programmes till date.

**Table giving the details about the Training Programmes**

<b>Sr. No.</b>	<b>Name of the Company / College / Individual given training</b>	<b>Title of the Training</b>	<b>Duration</b>
1.	Smt Parvathibai Chowgule Cultural Foundation's College of Arts & Science, Margao – Goa (T.Y.B.Sc. Chem. Students)	Analysis of water samples	12 <sup>th</sup> & 13 <sup>th</sup> November, 2007
2.	Ms. Ozinta G. Dias (XII Science)	Well Water Analysis	12 <sup>th</sup> November, 2007
3.	Sr. Joviana, (M. Phil), Madurai University	Solid Waste Management	5 <sup>th</sup> – 12 <sup>th</sup> November 2007, December 2007 - January 2008

4.	Ms. Vanessa Palha (X Std Student)	Testing of Water	27 <sup>th</sup> November , 2007
5.	Smt Parvathibai Chowgule Cultural Foundation's College of Arts & Science, Margao – Goa (T.Y.B.Sc. Chem. Students)	Monitoring and analysis of ambient air for NO <sub>x</sub> , SO <sub>2</sub> and Particulate Matter	21 <sup>st</sup> & 22 <sup>nd</sup> January, 2008
6.	Mr. Vaibhav R. Chate, M.Tech Env. Engg., KLES College of Engg. & Tech.	Testing of Raw Sewage Sample	31 <sup>st</sup> January – 8 <sup>th</sup> February, 2008.
7.	Officials from M/s Sesa Goa Ltd. Mr.Sapnil Gadekar, Trainee Chemist, Codli Mines, Mr. Nitesh K Shirodkar, Chemical & Env. Laboratory, Met Coke Division Mr.Nandan Hegde, Jr. Manager, Laboratory, Sesa Industries Ltd.	Training on Air & Water Sampling & Analysis of Environmental Parameters.	18 <sup>th</sup> – 29 <sup>th</sup> February, 2008.

#### 4.3 TRAINING ON CANAL / AIR MODELLING

M/s Syngenta India Ltd. held a training programme on Cumbarjua Canal Water / Air Modeling for the officials of M/s Syngenta India Ltd. and the Board officials at the factory site on the 31<sup>st</sup> of January, 2008. The following Board officials participated in the programme.

Sr. No.	Name of the official	Designation
1.	Dr. Simon de Sousa	Consultant (Rtd. Scientist F, NIO)
2.	Jenica Sequeira	Scientist 'B'
3.	Francisca Pereira	Scientific Asst.
4.	Sailesh Vaingankar	Jr. Env. Engr.
5.	Nandan Prabhudessai	Jr. Env. Engr.
6.	Livia D'silva	Scientific Asst.
7.	Anny Dias	Scientific Asst.
8.	Sanjay Kankonkar	Scientific Asst.
9.	Nilesh parsekar	Scientific Asst.
10.	Jocelyn Coelho	Jr. Lab. Asst.
11.	Sunny Pirankar	Jr. Lab. Asst.
12.	Kamlesh Kavlekar	Jr. Lab. Asst.
13.	Sameer Borkar	Jr. Lab. Asst.

Shri Rajiv Aunde, Director, M/s Terra Firma Environmental Consultants Pvt. Ltd. presented studies on Air Modelling and Dr. N. M. Anand Rtd. Scientist 'F' from N.I.O, Dona Paula presented studies on Canal Modelling.

#### 4.4 TRAINING ON STACK MONITORING BY CPCB OFFICIALS

A three-day training programme on Stack Monitoring was conducted by CPCB officials at the request of GSPCB. The programme had a technical session and a site visit to an industrial unit to conduct stack monitoring. The site visit was held at M/s Karthik Alloys Pvt. Ltd., Cuncoim Industrial Estate. The following officials of the Board attended the programme.

Sr. No.	Name of the official	Designation
1.	Jenica Sequeira	Scientist 'B'
2.	Francisca Pereira	Scientific Asst.
3.	Sanjay Kankonkar	Scientific Asst.



4.	Nilesh parsekar	Scientific Asst.
5.	Ganpat Naik	Sr. Lab. Asst.
6.	Sailesh Vaingankar	Jr. Env. Engr.
7.	Keshav Fadke	Jr. Env. Engr.
8.	Nandan Prabhudessai	Jr. Env. Engr.
9.	Chaitanya Salgaokar	Scientific Asst.
10.	Waman Chari	Jr. Lab. Asst.
11.	Santosh Haldankar	Jr. Lab. Asst.
12.	Sunny Pirankar	Jr. Lab. Asst.

#### 4.5 APPOINTMENTS IN THE BOARD

During the year under report, the following appointments were made in the office of the Goa State Pollution Control Board.

<b>Sr. No.</b>	<b>Name of the candidate</b>	<b>Appointed to the post of</b>
1.	Shri. Nilesh Parsekar	Scientific Assistant
2.	Kum Anny Dias	Scientific Assistant
3.	Kum. Livia D'Silva	Scientific Assistant
4.	Kum. Mitzi D'Silva	Accounts Clerk
5.	Kum. Sangeeta Bhandari	Laboratory Attendant

#### 4.6 DEPUTATIONS IN THE BOARD

Shri. Dilip Morajkar was taken as Accountant on deputation in the place of Shri. Suresh Diukar. Both the officials are from Directorate of Accounts.

## **CHAPTER 5**

### **ACHIEVEMENTS**

In the recent years, the Goa State Pollution Control Board has made some achievements in the fields of human resource development and environmental pollution control. The achievements are listed below.

- **Recognition of the Board Laboratory by Ministry of Environment & Forests, Government of India**  
The Board Laboratory has been accorded recognition under section 12 & 13 of the Environment (Protection) Act, 1986 and notified in the Government of India Gazette no. 225 dated 22<sup>nd</sup> November, 2007 vide Notification No. S.O. Legal 42(3)87 dated 1<sup>st</sup> October, 2007. Also, three Analysts were notified as Government Analysts. The Accreditation is valid for a period of 5 years from the date of Gazette notification.
- **Leave Encashment Benefit**  
Extension of Leave Encashment Benefit and providing Computer advance facilities to all the Board employees as approved by the Government of Goa vide Notifications no. 6/5/87-PER dated 30/03/07 and no. 7/1/07-FIN(Exp)(2) dated 29/03/07.
- **Provident Fund Benefit**  
All the staff of the Board was brought under the Employees Provident Fund Account. The arrears of the Board staff for the last 18 years were calculated and deposited under respective accounts with the approval of the Board.
- **Completion of Audit of the Board**  
The Board got its accounts for 2 years 2000-2001 and 2001-2002 audited. Further most of the observations were complied with and note has been taken for further action.
- **Rearrangement of Finance**  
The balance fixed deposit available with the Board in the banks at a low rate of interest was rearranged at higher rate of interest. The fixed deposits with the Board have increased to the tune of 200%.
- **Hazardous Waste Inventory**  
The Goa State Pollution Control Board engaged the services of M/s Aditya Environmental Services Pvt. Ltd. to prepare the Hazardous Waste Inventory for the industries generating hazardous waste in Goa.

## **ANNEXURE I**

### **LIST OF APPLICATIONS FOR CONSENTS TO ESTABLISH/OPERATE UNDER WATER (PREVENTION & CONTROL OF POLLUTION) ACT, 1974 AND AIR (PREVENTION & CONTROL OF POLLUTION) ACT, 1981 PROCESSED AND APPROVED DURING THE YEAR 2007-08, BY THE BOARD.**

**Table 1-a**

The following applications were approved in pursuance of the recommendations made at the 81<sup>st</sup> meeting of the Re-constituted Technical Committee held on 03/04/07

<b>Sr. No</b>	<b>Name of the unit &amp; location</b>	<b>Application cleared for</b>
1	M/s Shield Bio Energies (Goa) Pvt. Ltd – Pissurlem Indl Estate	NOC
2	M/s Sandu Pharmaceuticals Ltd. – Pilerne Indl. Estate	NOC for ETP
3	M/s Motor Industries Co. Ltd. – Verna Indl. Estate	NOC
4	M/s. Balaji Rollings Pvt. Ltd. – Cuncolim Indl. Estate	Air Consent New
5	M/s. Maa Durga Enterprises Ltd. – Cuncolim Indl. Estate	Air Consent New
6	M/s. Shraddha Ispat Pvt. Ltd. (Melting Division) – Cuncolim Indl. Estate	Air Consent New
7	M/s. Shirdi Stel Re-rollers Pvt. Ltd. – Cuncolim Indl. Estate	Air Consent New
8	M/s. Deccon Enterprises – Corlim Indl. Estate	Water & Air Consent New
9	M/s Gulf Goan Hotels Co. Ltd (Hotel Goan Heritage) – Calangute	Air Consent New
10	M/s Algoa Beach Resort Pvt. Ltd. – Betalbatim	Air Consent New
11	M/s Madhav Rameshwar Industries – Saleli	Air Consent New
12	M/s Rudreshwar Metals – Saleli	Air Consent Renewal

**Table 1-b**

The following applications were approved in pursuance of the recommendations made at the 82<sup>nd</sup> meeting of the Re-constituted Technical Committee held on 10/04/07

<b>Sr. No</b>	<b>Name of the unit &amp; location</b>	<b>Application cleared for</b>
1	M/s Vasco-da-Gama Distilleries Pvt. Ltd. – Sancoale Indl Estate	NOC
2	M/s Cipla Ltd, Plot L-139-146 – Verna Indl Estate	NOC for additional modification in ETP
3	M/s Ramacanta V.S. Velingkar, Corpadega Mine – Dharbandora	Water Consent New
4	M/s S. Kumar Metals – Pernem	Air Consent New
5	M/s Indi Pharma Pvt Ltd. – Bethora Indl Estate	Air Consent New
6	M/s. Kishaan Auto Engineering – Kakoda Indl. Estate	Air Consent New
7	M/s Maria Tereza Bakery – Ponda	Air Consent New
8	M/s Shree Bhavani Minerals – Bicholim	Water Consent New
9	M/s Colorcon Asia Pvt Ltd. – Verna Indl Estate	Air Consent Renewal
10	M/s G.N. Agrawal –Beneficiation Plant at Sigao, Sanguem	Water & Air Consent Renewal

11	M/s Chowgule & Company Ltd. –Beneficiation Plant at Bimbol, Sanguem	Air Consent Renewal
12	M/s Advanced Oral Care Products Pvt Ltd. – Kundaim Indl Estate	Water Consent Renewal

**Table 1-c**

The following applications were approved in pursuance of the recommendations made at the 83<sup>rd</sup> meeting of the Re-constituted Technical Committee held on 17/04/07

<b>Sr. No</b>	<b>Name of the unit &amp; location</b>	<b>Application cleared for</b>
1	M/s Shinde Industries – Kakoda Indl Estate	NOC
2	M/s. D' Mellos Engineering Works- Loutolim	NOC
3	M/s. Garib Nawaz Karkhana- Pissurlem Industrial Estate	NOC
4	M/s. Verna Print N Pack- Verna Industrial Estate	NOC
5	M/s Siddhi Cashew Industries- Bicholim	NOC
6	M/s Uranus Coatings- Sancoale Industrial Estate	NOC
7	M/s Catalysts and technologists- Cuncolim Industrial Estate	NOC
8	M/s Unitek . – Bethora Indl Estate	Water & Air Consent New
9	M/s Raiturkar Print- Pack –Verna Industrial Estate	Air Consent New
10	M/s Precitech Components. – Honda Indl Estate	Air Consent New
11	M/s Raiyani Steels- Bethora Industrial Estate	Water & Air Consent New
12	M/s Raiyani Furnitures- Bethora Industrial Estate	Water & Air Consent New
13	M/s Duraline India Pvt. Ltd.- Sancoale Industrial Estate	Air Consent New
14	M/s Grovemark Methods Pvt. Ltd.- Verna Industrial Estate	Water & Air Consent New
15	M/s Roz-Bal Industries- Bethora Industrial Estate	Water & Air Consent New
16	M/s Rahul Foods (India)- Old Goa	Air Consent New
17	M/s Sharda Enterprises – Margao Industrial Estate	Water Consent New
18	M/s Tata Consultancy Services Ltd.- Tivim Industrial Estate	Air Consent New
19	M/s Polynova Industries, Kundaim Industrial Estate-Goa	Water & Air Consent Renewal
20	M/s Goa Ispat Ltd. – Madkaim Indl Estate-Goa	Water & Air Consent Renewal
21	M/s B.T.Composites, Madkai Industrial Estate	Water & Air Consent Renewal
22	M/s Laxmi Metal Industries – Saleli, Sattari-Goa	Air Consent Renewal
23	M/s. Nestle India Ltd.- Bicholim	Air Consent Renewal
24	M/s. C.G. – PPI Adhesive Products Ltd.- Kundaim Industrial Estate	Water Consent Renewal
25	M/s Duraline India Pvt. Ltd.- Verna Industrial Estate	Air Consent Renewal
26	M/s Vassanji Industries - Bethora Industrial Estate	Water & Air Consent New

**Table 1-d**

The following applications were approved in pursuance of the recommendations made at the 84<sup>th</sup> meeting of the Re-constituted Technical Committee held on 24/04/07

<b>Sr. No</b>	<b>Name of the unit &amp; location</b>	<b>Application cleared for</b>
1	M/s. Golden Peace Hotels & Resorts Pvt. Ltd (Hotel The Majestic) – Porvorim	NOC for STP
2	M/s Syngenta India Ltd. – Corlim	NOC for additional product
3	M/s Syngenta India Ltd. – Corlim	NOC for increase in thiamethoxam production
4	M/s. GKB Vision Ltd – Pilerne Indl Estate	NOC for upgradation of ETP
5	M/s Arabian Paints & Allied Products – Bethora	NOC
6	M/s Martin Chemicals Pvt. Ltd – Cuncolim Indl Estate	NOC
7	M/s Bosco Motor Works – Kakoda Indl Estate	NOC
8	M/s Milestone Foods – Pilerne Indl Estate	NOC
9	M/s Goan Food Products – Bicholim Indl Estate	NOC
10	M/s Galina Service Station – Verna	NOC
11	M/s Rukminirama Steel Rollings Pvt. Ltd. – Cuncolim Indl. Estate	NOC for APCD
12	M/s Allan Eng. Works – Loutolim	NOC
13	M/s Allan Eng. Works – Loutolim	Water & Air Consent New
14	M/s Assmas Construction Pvt. Ltd – Quepem	Air Consent New
15	M/s Astra Metal Systems Pvt Ltd. – Verna Indl Estate	Water & Air Consent New
16	M/s Quality Exports – Cuncolim Indl Estate	Water Consent New
17	M/s Shinde Industries – Kakoda Indl Estate	Water & Air Consent New
18	M/s Titanor Components Ltd. – Kundaim Indl Estate	Air Consent New
19	M/s Coastal Holdings & Hotels Pvt. Ltd (Empire Beach Resort) – Calangute	Water & Air Consent New
20	M/s Sai Service Station Ltd. – Verna	Air Consent Renewal
21	M/s Goa Invescast Ltd. – Kundaim Indl Estate-Goa	Water & Air Consent Renewal
22	M/s. Nestle India Ltd. - Bicholim	Water Consent Renewal
23	M/s Sociedade de Fomento Industrial Pvt. Ltd, Capxem Iron Ore Terminal – Ponda	Air Consent Renewal

**Table 1-e**

The following applications were approved in pursuance of the recommendations made at the 85<sup>th</sup> meeting of the Re-constituted Technical Committee held on 03/05/07

<b>Sr. No</b>	<b>Name of the unit &amp; location</b>	<b>Application cleared for</b>
1	M/s Good Earth Resources (P) Ltd – Sanvordem	NOC
2	M/s Strainers & Filters Engg. Co. – Kakoda Indl Estate	NOC
3	M/s V.M. Salgaocar & Bro. Pvt. Ltd, Ore loading facility – Vagus	NOC
4	M/s M. Venkatrao Infra Projects Pvt. Ltd. – Old Goa	Water & Air Consent New
5	M/s Karetex Hospitality & laundry Services Pvt Ltd. – Colvale Indl. Estate	Air Consent New
6	M/s Meta Copper & Alloys Ltd. – Zuarinagar	Air Consent New
7	M/s Arvind Organics – Tivim Indl Estate	Water Consent Renewal
8	M/s Vel-Vin packaging Pvt. Ltd. – Corlim Indl Estate	Water Consent Renewal

9	M/s Damodar Mangalji & Co. Ltd. –Beneficiation Plant at Amona, Bicholim	Water Consent Renewal
10	M/s West Coast Ingots (P) Ltd. – Kundaim Indl Estate-Goa	Water & Air Consent Renewal
11	M/s Goa Steel Ltd. (Casting Division) – Bicholim	Water & Air Consent Renewal
12	M/s Sunrise Zinc Limited – Cuncolim Indl. Estate	Amendment in Air Consent Renewal

**Table 1-f**

The following applications were approved in pursuance of the recommendations made at the 86<sup>th</sup> meeting of the Re-constituted Technical Committee held on 08/05/07

<b>Sr. No</b>	<b>Name of the unit &amp; location</b>	<b>Application cleared for</b>
1	M/s SES Engineering Works – Kundaim Indl Estate	NOC
2	M/s Rukminirama Steel Rollings Pvt Ltd, Melting Division (L-17) – Cuncolim Indl Estate	Air Consent New for APCD
3	M/s Dauji Ice Plant – Old Goa	Water Consent New
4	M/s Karetex Hospitality & laundry Services Pvt Ltd. – Colvale Indl. Estate	Water Consent New
5	M/s Coral Clinical Systems – Verna Indl. Estate	Water Consent New
6	M/s Damodar Mangalji & Co. Ltd, Marsodo Iron Ore Mine - Pissurlem	Water & Air Consent New
7	M/s Timblo Pvt Ltd., Capxem Barge loading Jetty – Panchwadi	Water & Air Consent New
8	M/s Good Earth Resources (P) Ltd – Sanvordem	Water & Air Consent New
9	M/s Zuari Foods & Farms Pvt. Ltd – Canacona	Water & Air Consent New
10	M/s Nigel Shipyard – Cortalim	Water & Air Consent New
11	M/s High Hill Rocks – Chinchinim	Air Consent New
12	M/s Karthik Alloys Ltd (Rolling Division) – Cuncolim Indl Estate	Water & Air Consent New
13	M/s Karthik Alloys Ltd – Cuncolim Indl Estate	Water & Air Consent Renewal
14	M/s Rukminirama Steel Rollings Pvt. Ltd. (L-26) – Cuncolim Indl. Estate	Air Consent Renewal
15	M/s Hindustan Petroleum Corporation Ltd – Vasco Terminal	Water Consent Renewal
16	M/s MRF Ltd – Ponda	Air Consent Renewal
17	M/s Cipla Ltd. (M – 61 to 63) – Verna Indl Estate	Air Consent Renewal

**Table 1-g**

The following applications were approved in pursuance of the recommendations made at the 87<sup>th</sup> meeting of the Re-constituted Technical Committee held on 15/05/07

<b>Sr. No</b>	<b>Name of the unit &amp; location</b>	<b>Application cleared for</b>
1	M/s Milroc Vista Do Mar – Reis Magos	NOC for STP
2	M/s Ganesh Food Products – Sancoale Indl Estate	NOC
3	M/s Saibetal Fabrication – Mapusa	NOC
4	M/s Moreshwar Industries – Diwar	NOC
5	M/s STV Enterprises – Porvorim	NOC for D.G. set

6	M/s Wallace Pharmaceuticals Pvt Ltd – Ponda	NOC for D.G. set
7	M/s Sanofi Synthelabo (India) Ltd – Verna Indl Estate	NOC for D.G. set
8	M/s Classic Citi Investment Pvt Ltd – Panaji	NOC
9	M/s Water Resources - Madkai Indl Estate	NOC
10	M/s Goa Hydraulics – Tivim Indl. Estate	Water & Air Consent New
11	M/s Barton Firtop Engineering (I) Pvt Ltd – Verna Indl Estate	Water Consent New
12	M/s Sociedade de Fomento Industrial Pvt. Ltd, Capxem Iron Ore Terminal – Ponda	Water Consent New
13	M/s V. S. Dempo & Co. Ltd. –Beneficiation Plant at Kirlapal – Sanguem	Water & Air Consent Renewal
14	M/s Richa Polyplast Pvt Ltd. – Madkai Indl. Estate	Water Consent Renewal
15	M/s Shriram Offset Printers – Old Goa	Water Consent Renewal
16	M/s Professional Oral Care Products Pvt Ltd. – Kundaim Indl. Estate	Water & Air Consent Renewal
17	M/s Nicomet Industries – Cuncolim Indl. Estate	Erection of temporary shed for containment of existing filter cake

**Table 1-h**

The following applications were approved in pursuance of the recommendations made at the 88<sup>th</sup> meeting of the Re-constituted Technical Committee held on 22/05/07

<b>Sr. No</b>	<b>Name of the unit &amp; location</b>	<b>Application cleared for</b>
1	M/s Goan Real Estate & Construction Ltd, Aldeia de Goa – Bambolim	NOC for STP
2	M/s Anandi Logistics - Verna Indl Estate	NOC
3	M/s Vistar Motors Goa Pvt. Ltd. - Panaji	NOC
4	M/s Om Industries - Colvale Indl Estate	NOC
5	M/s Minco India Pvt. Ltd. – Tivim Indl. Estate	Water & Air Consent New
6	M/s Chowgule & Company Ltd. –Beneficiation Plant at Costi, Sanguem	Air Consent Renewal
7	M/s Hindustan Lever Ltd. – Kundaim Indl. Estate	Air Consent Renewal
8	M/s Jyoti Industries – Sarzora	Air Consent Renewal

**Table 1-i**

The following applications were approved in pursuance of the recommendations made at the 89<sup>th</sup> meeting of the Re-constituted Technical Committee held on 29/05/07

<b>Sr. No</b>	<b>Name of the unit &amp; location</b>	<b>Application cleared for</b>
1	M/s Gndrum Enterprises – Sancoale Indl Estate	NOC
2	M/s Algoa Beach Resort Pvt. Ltd. – Betalbatim	Water Consent New
3	M/s Marina Resorts Pvt Ltd (Paradise Village Beach Resort) – Calangute	Water & Air Consent New
4	M/s Goa Instruments Industries Pvt Ltd – Mapusa Indl. Estate	Water & Air Consent New
5	M/s Precitech Components. – Honda Indl Estate	Water Consent Renewal
6	M/s IFB Industries Ltd. – Verna Indl. Estate	Air Consent Renewal
7	M/s V.S. Dempo & Co. Pvt Ltd (Dry Screening Plant) – Bicholim	Air Consent Renewal

**Table 1-j**

The following applications were approved in pursuance of the recommendations made at the 90<sup>th</sup> meeting of the Re-constituted Technical Committee held on 06/06/07

<b>Sr. No</b>	<b>Name of the unit &amp; location</b>	<b>Application cleared for</b>
1	M/s Vinsan Packaging – Verna Indl Estate	NOC
2	M/s Sky Touch Industries – Canacona Indl Estate	NOC
3	M/s Srithik Ispat Pvt Ltd. – Sanguem Indl. Estate	NOC for APCD
4	M/s Laxmi Industry – Verna Indl Estate	NOC
5	M/s Maruti Packaged Drinking Water – Madkai	NOC
6	M/s Syngenta India Ltd – Corlim	Amendment in NOC
7	M/s Berger Becker Coatings Pvt Ltd – Pilerne Indl. Estate	Water & Air Consent New (expansion)
8	M/s Fluidmac – Kakoda Indl. Estate	Air Consent New
9	M/s Lloyd Industries – Kundaim Indl. Estate	Air Consent New
10	M/s Vaibhav Print Pack – GIDC Indl. Estate	Water & Air Consent New
11	M/s Vaibhav Industries – GIDC Indl. Estate	Air Consent New
12	M/s Power Tech – Kakoda Indl. Estate	Water Consent New
13	M/s Sunder's International – Bicholim Indl. Estate	Water & Air Consent New
14	M/s H.K. Chemicals – Cuncolim Indl. Estate	Water & Air Consent New
15	M/s CNK Polymer Products Pvt Ltd. – Madkai Indl. Estate	Water & Air Consent New
16	M/s Precitech Components. – Honda Indl Estate	Air Consent New
17	M/s Babu S. Naik – Quepem	Air Consent New
18	M/s Vaibhav Industries – GIDC Indl. Estate	Water Consent Renewal
19	M/s Chowgule & Company Ltd. –Beneficiation Plant at Costi, Sanguem	Water Consent Renewal
20	M/s Hindustan Lever Ltd. – Kundaim Indl. Estate	Water Consent Renewal
21	M/s Reliance Energy Ltd. – Sancoale Indl. Estate	Water & Air Consent Renewal
22	M/s Power Tech – Kakoda Indl. Estate	Air Consent Renewal
23	M/s Swastik Chemicals – Bethora Indl. Estate	Water Consent Renewal
24	M/s Halarnkar Industries – Casarvarnem	Air Consent Renewal
25	M/s Kudnekar Granites – Casarvarnem	Air Consent Renewal

**Table 1-k**

The following applications were approved in pursuance of the recommendations made at the 91<sup>st</sup> meeting of the Re-constituted Technical Committee held on 12/06/07

<b>Sr. No</b>	<b>Name of the unit &amp; location</b>	<b>Application cleared for</b>
1	M/s Saviour Food – Kundaim Indl Estate	NOC
2	M/s Bharat Laundry Industries – Pilerne Indl Estate	NOC
3	M/s Laxman Flour Mills – St. Inez	NOC
4	M/s Adelphi Pharmaceuticals – Tivim Indl Estate	NOC
5	M/s Sunware Filaments Pvt. Ltd. – Kundaim Indl Estate	NOC for shifting
6	M/s Davico Composites – Madkaim Indl Estate	NOC
7	M/s Mathias Ocean Park – Taleigao	NOC
8	M/s Fomento Resorts & Hotels Ltd. – Dona Paula	NOC for STP
9	M/s Aditya Beverages – Madkaim Indl Estate	NOC
10	M/s DPC Motors Pvt Ltd – Porvorim	NOC
11	M/s Devashri Garden – Soccorro	NOC



12	M/s Auto Window India Pvt Ltd – Bicholim Indl Estate	NOC
13	M/s Lithoferro (barge loading facility) – Sircaim	Water & Air Consent New
14	M/s Cipla Ltd – Plot N-5a Verna Indl. Estate	Water & Air Consent New
15	M/s Andrew Telecommunication India Pvt. Ltd. – Verna Indl. Estate	Water & Air Consent New
16	M/s Maberest Hotels Pvt Ltd (Hotel Fidalgo) – Panaji	Water & Air Consent New
17	M/s Shree Gajantlaxmi Workshop – Mapusa Indl. Estate	Water & Air Consent New
18	M/s FDC Ltd. (Unit I & II) – Verna Indl. Estate	Air Consent New
19	M/s Omkar Packaging – Kundaim Indl. Estate	Water & Air Consent New
20	M/s Bhise Enterprises – Fatorda	Water & Air Consent New
21	M/s Britacel Silicones Ltd – Verna Indl. Estate	Air Consent Renewal
22	M/s Damodar Metals – Bicholim	Air Consent Renewal
23	M/s Golden Peace Hotels & Resorts (Hotel Majestic) – Porvorim	Water Consent Renewal
24	M/s S. Chem & Allied Products Pvt. Ltd. – Cuncolim Indl. Estate	Water Consent Renewal
25	M/s Mandovi Metals Pvt Ltd. – Kundaim Indl. Estate	Water & Air Consent Renewal
26	M/s Chemtech Industries Pvt. Ltd. – Margao Indl. Estate	Water Consent Renewal
27	M/s Ronil Hotels & Resorts Pvt Ltd – Calangute	Water Consent Renewal

**Table 1-l**

The following applications were approved in pursuance of the recommendations made at the 92<sup>nd</sup> meeting of the Re-constituted Technical Committee held on 19/06/07

<b>Sr. No</b>	<b>Name of the unit &amp; location</b>	<b>Application cleared for</b>
1	M/s IFB Industries– Corlim Indl Estate	NOC for D.G. set
2	M/s. Tiger Sheet Metal Works – Corlim Indl Estate	NOC
3	M/s South West Port Ltd– Mormugao	NOC for D.G. set
4	M/s. Qualishine Industries – Tuem Indl Estate	NOC
5	M/s Classic Ciiti Investment Pvt Ltd (Hotel Sun-n-Sand) – Panaji	Water & Air Consent New
6	M/s Ultratech Automotive Pvt Ltd – Verna Electronic City	Water & Air Consent New
7	M/s SV Industries – Kundaim Indl Estate	Water & Air Consent New
8	M/s Sunshine Electric Co. Pvt Ltd – Tivim Indl Estate	Water & Air Consent New
9	M/s Rukminirama Steel Rollings Pvt Ltd, (L-26) – Cuncolim Indl Estate	Air Consent New for APCD
10	M/s ONGC Ltd – Velim	Water & Air Consent Renewal
11	M/s Procter & Gamble and Health Care Ltd – Kundaim Indl Estate	Water & Air Consent Renewal
12	M/s Godrej Agrovat Ltd – Valpoi	Water & Air Consent Renewal
13	M/s Real Bottling Factory Pvt Ltd – Old Goa	Water Consent Renewal
14	M/s Victorina Mascarenhas – Margao	Air Consent Renewal
15	M/s Skylark Resort – Colva	Water Consent Renewal
16	M/s Alpro Metal Pvt Ltd – Bicholim Indl Estate	Water Consent Renewal

**Table 1-m**

The following applications were approved in pursuance of the recommendations made at the 93<sup>rd</sup> meeting of the Re-constituted Technical Committee held on 26/06/07

<b>Sr. No</b>	<b>Name of the unit &amp; location</b>	<b>Application cleared for</b>
1	M/s Rukminirama Steel Rollings Pvt Ltd, (L-26) – Cuncolim Indl Estate	NOC for APCD
2	M/s. Joanita Ice Plant – Sancoale Indl Estate	NOC
3	M/s. Michael Exports – Corlim Indl Estate	NOC
4	M/s Durga Enterprises – Honda Indl Estate	Water & Air Consent New
5	M/s Aditya Polymers – Marcaim Indl Estate	Water & Air Consent New
6	M/s Karthik Inductions Ltd – Kundaim Indl Estate	Air Consent New for APCD
7	M/s Shirdi Steel Re-Rollers Pvt Ltd – Cuncolim Indl Estate	Air Consent New
8	M/s Micro Labs Limited – Verna Indl. Estate	Air Consent New for D.G. Set
9	M/s Rajasthan Steel Furniture – Madkai Indl Estate	Water & Air Consent New
10	M/s Mardolkar Marine Engineering Works – Tivim Indl Estate	Water & Air Consent New
11	M/s Chowgule & Company Pvt. Ltd, Sulcorna Iron & Manganese Ore Mine – Sanguem	Water & Air Consent New
12	M/s Chowgule & Company Pvt. Ltd, Gavanem Iron Ore Mine - Sattari	Water & Air Consent New
13	M/s Prestige Holiday Resorts Pvt Ltd (Monte Rio) – Arpora	Water & Air Consent New
14	M/s Colmar Beach Resort – Colva	Water & Air Consent New
15	M/s Sonesta Inns Pvt Ltd – Candolim	Water & Air Consent New
16	M/s Medispray Laboratories Pvt Ltd – Kundaim Indl Estate	Water & Air Consent Renewal
17	M/s Finolex Cables Limited (CCCR Div) – Usgaon	Water & Air Consent Renewal
18	M/s Phil Corporation Ltd – Valpoi	Air Consent Renewal
19	M/s Desai Bricks – Valpoi	Air Consent Renewal
20	M/s Cartini India Ltd – Tivim Indl Estate	Air Consent Renewal
21	M/s Shree Ambay Forging Pvt Ltd – Kundaim Indl Estate	Air Consent Renewal
22	M/s Jai Hanuman Bottling Pvt Ltd – Kundaim Indl Estate	Water Consent Renewal
23	M/s Pooja Cashew Industry – Valpoi	Water & Air Consent Renewal
24	M/s Sesa Goa Ltd (Ship Building Division) – Sirsaim	Water Consent Renewal
25	M/s Damodar Mangalji Mining Company –Beneficiation Plant at Amona, Navelim	Water Consent Renewal
26	M/s Vasudeva Tamba Metal Quarry – Sao Pedru	Air Consent Renewal

**Table 1-n**

The following applications were approved in pursuance of the recommendations made at the 94<sup>th</sup> meeting of the Re-constituted Technical Committee held on 03/07/07

<b>Sr. No</b>	<b>Name of the unit &amp; location</b>	<b>Application cleared for</b>
1	M/s. Agal Minerals Pvt Ltd, Dry Screening & Crushing Plant – Sanguem	NOC
2	M/s. Aryan Food Products – Kakoda Indl Estate	NOC
3	M/s Models Construction Pvt. Ltd. – Caranzalem	NOC for STP
4	M/s N.S. Narvekar, Kalay Iron Ore Mine – Sanguem	Water & Air Consent New
5	M/s Electro Tech – Karaswada	Water & Air Consent New
6	M/s Electro Services – Karaswada	Water & Air Consent New
7	M/s Kamco Foods – Corlim Indl Estate	Water Consent New

8	M/s Apex Packaging Products Pvt Ltd – Kundaim Indl Estate	Air Consent New
9	M/s Shri Krishna Bakery – Marcel	Air Consent New
10	M/s Prestige Holiday Resorts Pvt Ltd (Goan Royal Beach Club) – Benaullim	Water & Air Consent Renewal
11	M/s Savitri Steels – Madkaim Indl Estate	Water & Air Consent Renewal

**Table 1-o**

The following applications were approved in pursuance of the recommendations made at the 1<sup>st</sup> meeting of the Re-constituted Technical Committee held on 28/08/07

<b>Sr. No</b>	<b>Name of the unit &amp; location</b>	<b>Application cleared for</b>
1	M/s Niranjani Industries – Cuncolim Indl Estate	NOC
2	M/s. Indoco Remedies Ltd – Verna Indl Estate	NOC for boiler
3	M/s Graphic Print Arts - Corlim Indl Estate	NOC for transfer of name
4	M/s Cipla Ltd, L-147/4, Verna Indl Estate	NOC for expansion
5	M/s West End Holdings & Investment Pvt Ltd – Verna Indl Estate	NOC
6	M/s RMC Readymix India Pvt Ltd – Kundaim Indl Estate	NOC
7	M/s. Unique Steel Furniture – Verna Indl Estate	NOC
8	M/s Fabrica Corlinhas Pvt Ltd – Verna Indl Estate	NOC
9	M/s Candida Enterprises – Ponda	NOC
10	M/s. Shaini Bakers – Navelim	NOC
11	M/s Sangeeta Engineering Woks - Ponda	NOC
12	M/s Simona Industries – Cuncolim Indl Estate	NOC
13	M/s Ess Dee Aluminium Ltd – Kundaim Indl Estate	NOC for additional product
14	M/s Glenmone Distilleries & Vintners – Margao Indl Estate	NOC
15	M/s. Shaikh Yakub & Sons Tyre Works – Kakoda Indl Estate	NOC
16	M/s. Orbit Industries – Kakoda Indl Estate	NOC
17	M/s Goa State Infrastructure Development Corporation Ltd - Panaji	NOC for upgradation of Dona-Paula Jetty
18	M/s. Kesarval Motels & Holiday Homes - Kesarval	Water & Air Consent New
19	M/s. Automobile Corporation of Goa Ltd, Bus Body Division – Bhimpal, Sateri	Air Consent New
20	M/s. South West Port Ltd. – Mormugao	Air Consent New for D.G. sets
21	M/s. Casino Motels - Porvorim	Water & Air Consent New
22	M/s. Shirodkar Shipyard – Loutolim	Water & Air Consent New
23	M/s. Goa Auto Accessories Ltd - Honda	Air Consent New
24	M/s Delta Engineers – Cortalim	Air Consent New
25	M/s. Kilito Engineering Works - Rassaim	Air Consent New
26	M/s S.M. Engineering Works – Verna Indl Estate	Water & Air Consent New
27	M/s Super Services - Cortalim	Water & Air Consent New
28	M/s. Roxel Winery Inc. – Sancoale	Water & Air Consent New
29	M/s. Hotel Padmavi - Ponda	Water Consent New
30	M/s. Goa Ore Carriers – Loutolim	Water & Air Consent New
31	M/s Sonatapes Pvt Ltd - Corlim Indl Estate	Water & Air Consent New
32	M/s Sea Blue Ice Plant - Nuvem	Water & Air Consent New
33	M/s. St. Anthony's Chemical Industries - Kundaim Indl Estate	Water & Air Consent New
34	M/s. New Era Handling Agency – Loutolim	Air Consent New

35	M/s. New Era Handling Agency – Loutolim	Water Consent Renewal
36	M/s. Novoferro – Mapusa	Air Consent Renewal
37	M/s. Kamat Cashew Products - Sanquelim	Air Consent Renewal
38	M/s Marpol Pvt Ltd – Plot ABC, Kakoda Indl Estate	Water Consent Renewal
39	M/s. Clean Cat Conveyors Pvt Ltd – Kakoda Indl Estate	Water Consent Renewal
40	M/s. Aventis Pharma Ltd – Verna Indl Estate	Air Consent Renewal
41	M/s. Cadila Healthcare Ltd, Kundaim Indl Estate	Water Consent Renewal

**Table 1-p**

The following applications were approved in pursuance of the recommendations made at the 2<sup>nd</sup> meeting of the Re-constituted Technical Committee held on 04/09/07

<b>Sr. No</b>	<b>Name of the unit &amp; location</b>	<b>Application cleared for</b>
1	M/s Irshad Flour Milling, Bicholim Indl Estate	NOC
2	M/s. Marpol Pvt Ltd, Plot 12-18, Kakoda Indl Estate	NOC for expansion
3	M/s. Marpol Pvt Ltd, Plot ABC, Kakoda Indl Estate	NOC for expansion
4	M/s. Mamta Packers – Margao Indl Estate	NOC
5	M/s. Black Stone Industries – Quepem	NOC
6	M/s Krishna Converters – Sao Jose de Areal	Water Consent New
7	M/s Naik Twisters – Shed no. 385, Margao Indl Estate	Water Consent New
8	M/s. Shree Sai Sagar Industries – Honda Indl Estate	Water Consent New
9	M/s Naik Fishnet Industry – Shed no. A1-1, Margao Indl Estate	Water Consent New
10	M/s S.M. Cold Retreats, Kakoda Indl Estate	Water Consent New
11	M/s. Vishwas Filaments Pvt. Ltd. – Bethora Indl Estate	Water & Air Consent New
12	M/s Nakshatra Distillery, Ucassaim	Water Consent New (Addl product)
13	M/s. Nestle India Ltd, Usgao Indl Estate	Water & Air Consent New (expansion)
14	M/s Palolem Beach Resort, Canacona	Water & Air Consent New
15	M/s Navelkar Hotel (Hotel Rajdhani), Panaji	Water & Air Consent New
16	M/s Zuzart's Ice Factory – Guirim	Water Consent Renewal
17	M/s. Goa Containers, Kundaim Indl Estate	Air Consent Renewal
18	M/s S.M. Cold Retreats, Kakoda Indl Estate	Air Consent Renewal
19	M/s Everest Enterprises – Verna Indl Estate	Water Consent Renewal
20	M/s E.B. Crusher, Dabhal, Sanguem	Water Consent Renewal

**Table 1-q**

The following applications were approved in pursuance of the recommendations made at the 3<sup>rd</sup> meeting of the Re-constituted Technical Committee held on 11/09/07

<b>Sr. No</b>	<b>Name of the unit &amp; location</b>	<b>Application cleared for</b>
1	M/s Prabha Engineering Works, Bicholim	NOC
2	M/s. Nextera Telecomm Pvt Ltd, Kundaim Indl Estate	NOC
3	M/s Meditab Specialities Pvt. Ltd. – Kerim Indl Estate	NOC for Power Plant
4	M/s. Glenmark Pharmaceuticals Ltd – (Hormone Plant) Plot No S9/ S7B, Colvale Indl Estate	NOC
5	M/s Excel Aluminium, Margao Indl Estate	NOC
6	M/s Aqua Resorts & Spa Pvt Ltd (Lazy Lagoon), Arpora	NOC
7	M/s Hotel Astoria, Assagao	Water Consent New

8	M/s Fomento Resorts & Hotels Ltd, Dona Paula	Water Consent New for STP
9	M/s. Shree Sai Sagar Industries – Honda Indl Estate	Air Consent New
10	M/s Goldfield Fragrances Pvt Ltd, Pilerne Indl Estate	Water & Air Consent Renewal
11	M/s. Ranbaxy Labs Ltd – Madkai Indl Estate	Air Consent Renewal
12	M/s. Goa Granite, Tolleawal, Sarzora, Chinchinim	Air Consent Renewal

**Table 1-r**

The following applications were approved in pursuance of the recommendations made at the 4<sup>th</sup> meeting of the Re-constituted Technical Committee held on 18/09/07

<b>Sr. No</b>	<b>Name of the unit &amp; location</b>	<b>Application cleared for</b>
1	M/s SJP Exports, Cuncolim Indl Estate	NOC
2	M/s P & D Conveyors – Madkai Indl Estate	NOC
3	M/s Teracom Ltd, Kundaim Indl Estate	NOC
4	M/s Maria Sarita Schafer alias Sarita Coutincho, Cavelossim	NOC
5	M/s Goa State Infrastructure Development Corporation Ltd - Panaji	NOC
6	M/s. Pebble Millennium Guest House – Candolim	Water Consent New
7	M/s Wallace Pharmaceuticals Ltd, Ponda	Air Consent New for DG set
8	M/s. Casa Sea Shell, Candolim	Water Consent New
9	M/s. Hospitality Resorts Ltd, Kenilworth Beach Resort, Utorda	Water & Air Consent New
10	M/s. Cosmos Pvt Ltd (Galaxy Beach Resort), Utorda	Water & Air Consent Renewal
11	M/s. Nanu Resorts Pvt. Ltd. – Betalbatim	Air Consent Renewal
12	M/s. Konkan Polymers and Additives Pvt Ltd- Verna Indl Estate	Water Consent Renewal

**Table 1-s**

The following applications were approved in pursuance of the recommendations made at the 5<sup>th</sup> meeting of the Re-constituted Technical Committee held on 03/10/07

<b>Sr. No</b>	<b>Name of the unit &amp; location</b>	<b>Application cleared for</b>
1	M/s Goa Electric Company – Kundaim Indl Estate	Air Consent New
2	M/s Shree Print and Pack – Verna Indl Estate	Water Consent New (addl plot)
3	M/s Sai Stonex – Pilerne Indl Estate	Water & Air Consent New
4	M/s Praka Engineering– Bicholim	Air Consent New
5	M/s Models Construction Pvt. Ltd. (Models Celebrity) - Panaji	Water & Air Consent New
6	M/s Southern Engineering Project – Kundaim Indl Estate	Water & Air Consent New
7	M/s Suyash Metal Processing Pvt. Ltd. – Kundaim Indl Estate	Water & Air Consent New
8	M/s Shaun Holdings Pvt. Ltd. – Cortalim	Air Consent New

9	M/s. Halarnkar Industries – Pernem	Air Consent New
10	M/s. Emkay Elastomers – Cuncolim Indl Estate	Water & Air Consent New
11	M/s Agam Batteries Pvt Ltd, Sancoale Indl Estate	Air Consent New
12	M/s Hira Tiles & Marbles – Pilerne Indl Estate	Water & Air Consent New
13	M/s Aruna Engg Works – Kundaim Indl Estate	Water & Air Consent New
14	M/s Arun Sheet Metal Works – Kundaim Indl Estate	Water & Air Consent New
15	M/s Subash Plastic Enterprises – Kundaim Indl Estate	Water & Air Consent New
16	M/s Casa Domani - Calangute	Water Consent New
17	M/s Hotel Sona - Panaji	Water Consent New
18	M/s Hotel Solmar - Panaji	Water Consent New
19	M/s Aqua Resorts & Spa Pvt. Ltd. - Arpora	Water & Air Consent New
20	M/s Crescent Fragrances Pvt Ltd, Cuncolim Indl Estate	Air Consent Renewal
21	M/s Agam Batteries Pvt Ltd, Sancoale Indl Estate	Water Consent Renewal
22	M/s Praka Engineering– Bicholim	Water Consent Renewal
23	M/s Barton Firtop Engg. – Verna Indl Estate	Water Consent Renewal
24	M/s West Coast Shipyard – Rassaim	Water Consent Renewal
25	M/s Impala Distillery & Brewery Pvt. Ltd. - Quepem	Air Consent Renewal
26	M/s Bharat Hotels Pvt Ltd (Intercontinental The Grand Resort) - Canacona	Air Consent Renewal
27	M/s. Germania Batteries Pvt Ltd – Corlim Indl Estate	Air & Water Consent Renewal
28	M/s Valdan Engg – Sancoale	Water Consent Renewal
29	M/s. Rebello Metals – Curtorim	Air Consent Renewal

**Table 1-t**

The following applications were approved in pursuance of the recommendations made at the 6<sup>th</sup> meeting of the Re-constituted Technical Committee held on 09/10/07

<b>Sr. No</b>	<b>Name of the unit &amp; location</b>	<b>Application cleared for</b>
1	M/s Pavnai Plastpack, Sancoale Indl Estate	NOC
2	M/s T-Ron Industries – Pissurlem Indl Estate	NOC
3	M/s Bhanudas Construction Pvt. Ltd. – Kakoda Indl Estate	NOC
4	M/s Shailesh Packaging, Sancoale Indl Estate	NOC
5	M/s Eco Plastics – Kundaim Indl Estate	NOC
6	M/s E-Care Structures – Margao Indl Estate	NOC
7	M/s. Perfect Fabrication Workshop, Ponda	NOC
8	M/s Rututek Enterprises - Bethora Indl Estate	NOC
9	M/s Victoria Engineering – Margao	NOC
10	M/s Santoshi Packaging - Margao Indl Estate	NOC
11	M/s. Francisca Metals, Paroda, Quepem	NOC
12	M/s KGN Blocks, Bethora	NOC
13	M/s. Aarkay Netlab – Honda Indl Estate	NOC for addl product
14	M/s Centaur Pharmaceuticals, Tivim Indl. Estate	NOC for STP
15	M/s Essem Engineers, Ponda	Water & Air Consent new
16	M/s Khandola Fabricators – Ponda	Air Consent new
17	M/s Adelphi Pharmaceuticals – Tivim Indl Estate	Water & Air Consent new
18	M/s. Syngenta India Limited – Corlim	Air Consent new (boiler stack)
19	M/s. Syngenta India Limited – Corlim	Water Consent new (addl product)
20	M/s. Shriram Enterprises-Ponda-Goa	Air Consent Renewal

21	M/s Shreenath Pre Stress Pvt Ltd, Assanora	Water Consent Renewal
22	M/s Khandola Fabricators – Ponda	Water Consent Renewal
23	M/s GKB Hi-tech lenses Ltd, Tivim Indl. Estate	Air Consent Renewal
24	M/s Aventis Pharma Ltd, Verna Indl. Estate	Water Consent Renewal
25	M/s. Ulka Seafoods Pvt Ltd, Marcela	Water Consent Renewal
26	M/s. Titan Time Products Ltd – Verna Indl Estate	Water Consent Renewal
27	M/s Geno Pharmaceuticals, Tivim Indl. Estate	Water & Air Consent Renewal
28	M/s. Vijai Marine Services, Loutolim	Water & Air Consent Renewal

**Table 1-u**

The following applications were approved in pursuance of the recommendations made at the 7<sup>th</sup> meeting of the Re-constituted Technical Committee held on 16/10/07

<b>Sr. No</b>	<b>Name of the unit &amp; location</b>	<b>Application cleared for</b>
1	M/s Labartraj Enterprises, Kakoda Indl Estate	NOC
2	M/s. Machino Tech Engg Works - Verna Indl Estate	NOC
3	M/s. Agarwal Industries – Mapusa Indl Estate	NOC
4	M/s Rechel Plastic Industries, Sanguem	NOC
5	M/s Agam Batteries Pvt Ltd, Sancoale Indl Estate	NOC (addl product)
6	M/s Marigold Hotel, Panaji	NOC
7	M/s. Shree Gayathri Industries - Ponda	NOC
8	M/s. Duraline India Pvt Ltd – Sancoale Indl Estate	NOC (expansion)
9	M/s Shubh Hotels Pvt Ltd, Panaji	NOC
10	M/s. D.P. Chemicals & Aromatics – Kakoda Indl Estate	NOC (expansion)
11	M/s Teracom Ltd. (Plot No. 249) – Kundaim Indl Estate	NOC (expansion)
12	M/s. Goldan Heritage Pvt Ltd, Tivim Indl Estate	NOC
13	M/s La Calypso Hotels Pvt Ltd, Calangute	NOC (STP)
14	M/s Kamat Construction Pvt Ltd – Kamat Royale, Caranzalem	NOC
15	M/s Prudential Paradise, Mapusa	NOC
16	M/s. Prasad Enterprises, Kundaim Indl Estate	Water & Air Consent new
17	M/s. Mitasu Woods Ltd, Kundaim Indl Estate	Water & Air Consent new
18	M/s. Mahalasa Polyfab – Bethora Indl Estate	Water Consent new (change of product)
19	M/s. Glowsign, Uccasaim	Water & Air Consent new
20	M/s La Calypso Hotels Pvt Ltd, Calangute	Water & Air Consent new
21	M/s Jayashri Polymers – Pilerne Indl Estate	Air Consent new
22	M/s. STP Ltd. – Cuncolim Indl Estate	Air Consent new
23	M/s. Kalyani Industries, Kundaim Indl Estate	Water & Air Consent new
24	M/s. Purohit Food Products, Honda	Water & Air Consent new
25	M/s. Infinity Modules Pvt Ltd, Pilerne Indl Estate	Air Consent new
26	M/s. Sumdam Industries, Tivim Indl Estate	Water & Air Consent new
27	M/s Mineirva Nacional Limitada, Cuddegarivoril Sodo Mine – Curchorem	Water & Air Consent new

28	M/s Panjim Inn - Panaji	Water Consent new
29	M/s Jayashri Enterprises – Pilerne Indl Estate	Air Consent new
30	M/s Jayashri Polymers – Pilerne Indl Estate	Water Consent Renewal
31	M/s. STP Ltd. – Cuncolim Indl Estate	Water Consent Renewal
32	M/s Hindustan Petroleum Co. Ltd, Kundaim Indl Estate	Air Consent Renewal
33	M/s. Konkan Paraffin, Pissurlem Indl Estate	Water Consent Renewal
34	M/s Himaganga Freezers Pvt Ltd, Marcela	Water Consent Renewal
35	M/s Dempo Mining Co, BF Plant at Pilgao – Bicholim	Air Consent Renewal
36	M/s Jayashri Enterprises – Pilerne Indl Estate	Water Consent Renewal
37	M/s. Sundaram Industries Ltd, (Tyre solutions Div), Corlim Indl Estate	Water & Air Consent Renewal
38	M/s. Infinity Modules Pvt Ltd, Pilerne Indl Estate	Water Consent Renewal
39	M/s. S. K. Metal Quarry, S. No. 193, Bicholim	Air Consent Renewal
40	M/s. S. K. Metal Quarry, S. No. 162, Bicholim	Air Consent Renewal
41	M/s Blue Coast Hotels & Resorts Ltd,(Park Hyatt Goa Resort & Spa), Cansaulim	Water & Air Consent Renewal

**Table 1-v**

The following applications were approved in pursuance of the recommendations made at the 8<sup>th</sup> meeting of the Re-constituted Technical Committee held on 07/11/07

<b>Sr. No</b>	<b>Name of the unit &amp; location</b>	<b>Application cleared for</b>
1	M/s Fluidmac Hose Industries – Kakoda Indl Estate	NOC
2	M/s Pooja Industries – Margao Indl Estate	NOC
3	M/s Manohar Packaging – Mapusa Indl Estate	NOC (expansion)
4	M/s. Cipla Ltd – Kerim Indl Estate	NOC
5	M/s Star of the Sea – Benaulim	Water & Air Consent new
6	M/s Hotel Villa Theresa – Calangute	Water & Air Consent new
7	M/s Hotel Sea Gull – Calangute	Water& Air Consent new
8	M/s Hotel Solmar - Panaji	Air Consent new
9	M/s. G.D. Bhakta Distilleries Pvt Ltd – Bicholim	Air Consent new
10	M/s. Mahalasa Polyfab – Bethora Indl Estate	Air Consent new (product change)
11	M/s. Mallikarjun Industries – Quepem	Water & Air Consent new
12	M/s. Royal Engg Works – Tivim Indl Estate	Water & Air Consent new
13	M/s. Shibili Engg Works-Taleigaon	Water Consent new
14	M/s. Dynajet Machinery India Pvt Ltd – Verna Indl Estate	Water & Air Consent new
15	M/s. Sandu Pharmaceuticals Ltd – Pilerne Indl Estate	Water Consent new (for ETP)
16	M/s Sea Breeze Resort – Candolim	Water Consent new
17	M/s Sea Breeze Beach – Calangute	Water Consent new
18	M/s Sea Breeze Village – Calangute	Water Consent new
19	M/s. Dhaniya Engineering – Sancoale Indl Estate	Water Consent Renewal
20	M/s. Goldy Circlips & Retainer Rings – Verna Indl Estate	Water Consent Renewal
21	M/s. Madanant Constructions Goa Pvt. Ltd – Mullem	Air Consent Renewal
22	M/s. Ramdev Plastic Industries – Madkai Indl Estate	Air Consent Renewal



23	M/s. Dempo Shipbuilding Engg Pvt Ltd – Old Goa	Water & Air Consent Renewal
24	M/s. Diamond Tools Industries – Kakoda Indl Estate	Water & Air Consent Renewal
25	M/s. G.D. Bhakta Distilleries Pvt Ltd – Bicholim	Water Consent Renewal
26	M/s. Aarkay Netlab – Honda Indl Estate	Water & Air Consent Renewal
27	M/s. Rich Audio Systems – Verna Indl Estate	Water Consent Renewal
28	M/s. Ess Dee Aluminium Pvt Ltd – Kundaim Indl Estate	Water & Air Consent Renewal
29	M/s Bharti Teletec Ltd – Mapusa Indl Estate	Water Consent Renewal
30	M/s Heritage Village Club - Cansaulim	Water Consent Renewal

**Table 1-w**

The following applications were approved in pursuance of the recommendations made at the 9<sup>th</sup> meeting of the Re-constituted Technical Committee held on 13/11/07

<b>Sr. No</b>	<b>Name of the unit &amp; location</b>	<b>Application cleared for</b>
1	M/s. Duracon Building Products Pvt Ltd, Cuncolim Indl Estate	NOC
2	M/s. J & J Precision Industries. Mapusa Indl Estate	NOC
3	M/s Pliva Research India Pvt. Ltd. – Corlim	NOC (expansion)
4	M/s Sigma Laboratories – Tivim Indl Estate	NOC (expansion)
5	M/s Sipping Spirits Pvt. Ltd. – Colvale Indl Estate	NOC
6	M/s. Shantadurga Engg. Works – Madkaim Indl Estate	Water & Air Consent new
7	M/s. Atreya Engg Works, Bicholim	Air Consent new
8	M/s. Jakhotia Plastic Pvt Ltd, Kundaim Indl Estate	Water Consent new
9	M/s Proenca Grand Vacations Pvt. Ltd. - Calangute	Water & Air Consent new
10	M/s. De Nora India Ltd, Kundaim Indl Estate	Air Consent Renewal
11	M/s. Goa Containers, Kundaim Indl Estate	Air Consent Renewal
12	M/s. Sai Tyre Remoulding, Quepem	Air Consent Renewal
13	M/s. Intergold India Pvt Ltd, Pilerne Indl Estate	Water & Air Consent Renewal
14	M/s. Roquedal Lubricants Pvt Ltd, Cuncolim Indl Estate	Water Consent Renewal
15	M/s Revathi Synthetics Pvt Ltd, Kundaim Indl Estate	Water Consent Renewal
16	M/s. NHB Agro Industries, Madkai Indl Estate	Air Consent Renewal

**Table 1-x**

The following applications were approved in pursuance of the recommendations made at the 10<sup>th</sup> meeting of the Re-constituted Technical Committee held on 20/11/07

<b>Sr. No</b>	<b>Name of the unit &amp; location</b>	<b>Application cleared for</b>
1	M/s. Sai Guest House, Guirim	NOC
2	M/s Hindustan Petroleum Corporation Ltd,(LPG Bottling Plant) – Kundaim Industrial Estate	NOC (for ETP)
3	M/s Chowgule Industries Pvt Ltd– Panaji	NOC (for oil and grease trap)
4	M/s Chowgule Industries Pvt Ltd– Tivim Industrial Estate	NOC

5	M/s Chowgule Industries Pvt Ltd– Tivim Industrial Estate	NOC (for oil and grease trap)
6	M/s. A- One Enterprises- Tivim Industrial Estate	NOC
7	M/s. Ravalnath Industries, Sattari	Water and Air Consent new
8	M/s. Nextera Telecomm Pvt Ltd, Kundaim Indl Estate	Water Consent new
9	M/s Ronil Hotels and Resorts Pvt. Ltd. - Calangute	Air Consent new
10	M/s. Total Packaging – Corlim Indl Estate	Air Consent New
11	M/s Colva Beach Resort, Colva	Water and Air Consent New
12	M/s. De Nora India Ltd, Kundaim Indl Estate	Water Consent Renewal
13	M/s. Automobile Corporation of Goa Ltd, (Sheet Metal Division) - Honda	Water Consent Renewal
14	M/s. S. Chems and Allied Producers Pvt Ltd – Cuncolim Indl Estate	Air Consent Renewal
15	M/s. Marksans Pharma Ltd – Verna Indl Estate	Air Consent Renewal
16	M/s. Sai Arts, Tuem Indl Estate	Water Consent Renewal and Air Consent New
17	M/s. Fun Cream Foods (I) Ltd, Verna Indl Estate	Water and Air Consent Renewal

**Table 1-y**

The following applications were approved in pursuance of the recommendations made at the 11<sup>th</sup> meeting of the Re-constituted Technical Committee held on 27/11/07

<b>Sr. No</b>	<b>Name of the unit &amp; location</b>	<b>Application cleared for</b>
1	M/s Gama Engineering – Cuncolim Indl Estate	NOC
2	M/s Sai Bakery – Guirim	NOC
3	M/s Zephyr Biomedicals – Verna Indl Estate	NOC
4	M/s. Intergold India Pvt Ltd, Pilerne Indl Estate	Air Consent new (D.G. set)
5	M/s R.D. Engineering – Kundaim Indl Estate	Air Consent new
6	M/s. Titan Time Products Ltd – Verna Indl Estate	Air Consent new
7	M/s Masibus Electronics Pvt. Ltd – Verna Indl Estate	Air Consent new
8	M/s Balvin Engineering – Tivim Indl Estate	Water Consent new
9	M/s Shayne Buthelho – Candolim	Water Consent new
10	M/s Catherine Buthelho – Candolim	Water Consent new
11	M/s Wentra Guest House - Calangute	Water Consent new
12	M/s Sabina Silveira - Calangute	Water Consent new
13	M/s Donhill Beach Resort – Candolim	Water Consent new
14	M/s Beach way Guest House – Vagator	Water Consent new
15	M/s Varma Beach Resort – Calangute	Water Consent new
16	M/s Coqueria Holiday Home – Candolim	Water Consent new
17	M/s Casa Paradiso – Panaji	Water & Air Consent new
18	M/s Hotel Manoshanti – Panaji	Water & Air Consent new
19	M/s Goveia Holiday Homes – Candolim	Water & Air Consent new
20	M/s Sharanam Hotels & Resorts Pvt. Ltd. - Calangute	Water & Air Consent new
21	M/s Club 69, Estrela Do Mar - Calangute	Water & Air Consent new

22	M/s Petals Engineers Pvt. Ltd. – Kundaim Indl Estate	Water Consent Renewal
23	M/s Nita Industries – St. Jose de Areal	Water Consent Renewal
24	M/s Real Food Exporters Pvt. Ltd. – Old Goa	Water Consent Renewal
25	M/s. Roquedal Lubricants Pvt Ltd, Cuncolim Indl Estate	Air Consent Renewal
26	M/s Phoenix Park Inn Resort – Candolim	Water and Air Consent Renewal
27	M/s United Breweries Ltd- Ponda	Air Consent Renewal
28	M/s United Spirits Ltd- Ponda	Air Consent Renewal

**Table 1-z**

The following applications were approved in pursuance of the recommendations made at the 12<sup>th</sup> meeting of the Re-constituted Technical Committee held on 11/12/07

<b>Sr. No</b>	<b>Name of the unit &amp; location</b>	<b>Application cleared for</b>
1	M/s Royal Goan Distilleries, Cuncolim Indl Estate	NOC
2	M/s. Encube Ethicals Pvt Ltd, Madkai Indl Estate	NOC
3	M/s Teracom Ltd, adj. to P-250, Kundaim Indl Estate	NOC (expansion)
4	M/s A.L. Industries, Verna Indl Estate	Water & Air Consent new
5	M/s Ion Exchange India Ltd, Verna Indl Estate	Air Consent new
6	M/s Xavier tooling Industries, Tivim Indl Estate	Water & Air Consent new
7	M/s. Petals Innovative Machines Pvt Ltd – Verna Indl Estate	Water & Air Consent new
8	M/s Silver Sands Holiday Village, Candolim	Air Consent new
9	M/s Manyari Hotel Pvt Ltd, Vasco	Water & Air Consent new
10	M/s Mariano Silveira, Calangute	Water Consent new
11	M/s. Infrastructure Logistics Ltd, Navelim, Bicholim	Water & Air Consent new
12	M/s Tesora Prop Pvt Ltd, Calangute	Water & Air Consent new
13	M/s Shree Hiralal Kohidas, Gogoro ou Gulcan Mine, Sanguem	Water & Air Consent new
14	M/s Ion Exchange India Ltd, Verna Indl Estate	Water Consent Renewal
15	M/s. Vassanji Industries, Bethora Indl Estate	Water and Air Consent Renewal
16	M/s. Vijaylaxmi agro Food Industries – Canacona Indl Estate	Water Consent Renewal
17	M/s Ashwini Agro Food Industries – Canacona Indl Estate	Water Consent Renewal
18	M/s Blossom Pharmaceuticals, Tivim Indl Estate	Water Consent Renewal
19	M/s Konkani Paraffin Pvt Ltd, Pissurlem Indl Estate	Air Consent Renewal
20	M/s. N S Narvekar, Dry screening and crushing Plant	Air Consent Renewal
21	M/s Delta Stationery Pvt. Ltd, Corlim	Water Consent Renewal
22	M/s Real House Distillery Ltd, Old Goa	Water and Air Consent Renewal
23	Smt. Ahiliabai Sardessai, Kirlapale Mine - Sanguem	Air Consent Renewal
24	M/s V. S. Dempo & Co. Pvt. Ltd., Surla-Sonshi Mine - Bicholim	Air Consent Renewal
25	M/s V. S. Dempo & Co. Pvt. Ltd., Curpem Mine - Sanguem	Air Consent Renewal
26	M/s V. S. Dempo & Co. Pvt. Ltd., Dudhal Mine - Sanguem	Air Consent Renewal
27	M/s V. S. Dempo & Co. Pvt. Ltd., Colomba Mine - Sanguem	Air Consent Renewal
28	M/s Dempo Mining Corporation Pvt. Ltd., Bicholim Mine -	Air Consent Renewal

	Bicholim	
29	M/s Dempo Mining Corporation Pvt. Ltd., Mobile Crushing & Screening Plant - Bicholim	Air Consent Renewal

**Table 1-aa**

The following applications were approved in pursuance of the recommendations made at the 13<sup>th</sup> meeting of the Re-constituted Technical Committee held on 18/12/07

<b>Sr. No</b>	<b>Name of the unit &amp; location</b>	<b>Application cleared for</b>
1	M/s Rahul Paying Guest House, Bicholim	NOC
2	M/s Atlas Fisheries Ltd, old Goa	Air Consent new
3	M/s Asian magnetic Devices Pvt Ltd, Verna Indl estate	Air Consent new
4	M/s Royal Engg Works, Parra	Water & Air Consent new
5	M/s Dynaquip Engineers, Tivim Indl Estate	Water & Air Consent new
6	M/s Dyna Plast Tech, Tivim Indl Estate	Water & Air Consent new
7	M/s Dynaquip Machines, Tivim Indl Estate	Water & Air Consent new
8	M/s Britacel Silicones Ltd, Kundaim Indl Estate	Air Consent new
9	M/a Zuari Engg. Services, Sancoale Indl Estate	Water & Air Consent new
10	M/s Betts India Pvt Ltd, Verna Indl Estate	Water & Air Consent renewal
11	M/s Daniel Engg Works, Cortalim	Water Consent renewal
12	M/s Corel Paints, Madkai Indl Estate	Water Consent renewal
13	M/s Golden Marbles, Margao	Water Consent renewal
14	M/s Zantye Brothers, Sattari	Water Consent renewal
15	M/s Dalmia Resort, Cavelossim	Air Consent renewal
16	M/s V.M. Salgaocar & Bro Pvt Ltd, Hotel Marriott	Water & Air Consent renewal
17	M/s Crompton Greaves Ltd, Fans & appliances div	Air Consent renewal
18	M/s Tata Consultancy Services, Tivim Indl estate	Water Consent renewal
19	M/s Ganesh Benzoplast Ltd, Vasco	Water & Air Consent renewal
20	M/s Crompton Greaves Ltd, Machine 4 div, Kundaim	Air Consent renewal
21	M/s Asian magnetic Devices Pvt Ltd, Verna Indl estate	Water Consent renewal

**Table 1-ab**

The following applications were approved in pursuance of the recommendations made at the 14<sup>th</sup> meeting of the Re-constituted Technical Committee held on 08/01/08

<b>Sr. No</b>	<b>Name of the unit &amp; location</b>	<b>Application cleared for</b>
1	M/s. Zuari Industries, Zuarinagar	NOC for storage
2	M/s. Shraddha Ispat Pvt Ltd – Sanguem	NOC for boiler & autoclave
3	M/s HNL Instruments & Controls Pvt Ltd, Bicholim Indl Estate	NOC for shifting
4	M/s. Menezes Chemicals (Goa) Pvt Ltd, Ponda	NOC for ETP

5	M/s Ameya Offset Printers, Kundaim Indl Estate	NOC
6	M/s Kundil Alloys Pvt. Ltd – Kundaim Indl Estate	NOC for APCD
7	M/s Shirdi Steel Re-rollers Pvt Ltd, Cuncolim Indl Estate	NOC for modification of reheating furnace
8	M/s Acron Developers Pvt Ltd, Arpora	NOC
9	M/s. Silken Sands Hotel Pvt Ltd, Benaulim	Water & Air Consent New
10	M/s Mandovi Shipyard, Rassaim	Water & Air Consent New
11	M/s. S. Chem & Allied Producers Pvt. Ltd. (Wire Div) – Margao Indl Estate	Water & Air Consent New
12	M/s Ashoka Non-Ferrous Metals Ltd – Kundaim Indl Estate	Air Consent New
13	M/s. Siddharth Milk and Milk Products, Kundaim Indl Estate	Air Consent New
14	M/s Chowgule & Company Ltd, Shipbuilding div – Rassaim, Loutolim	Air Consent New
15	M/s R.B. Engineers, Ponda	Air Consent New
16	M/s. Chowgule & Co Pvt Ltd, Shipbuilding Div, Near Borim bridge Loutolim	Air Consent New
17	M/s Mandovi Drydocks, Piligao	Air Consent New
18	M/s Goa Formulations Ltd, Honda Indl Estate	Water & Air Consent New
19	M/s. Fiemench Perfumes (I) Pvt Ltd, Kundaim Indl Estate	Air Consent New
20	M/s Associated Wood Drums Mfg Pvt. Ltd – Verna Indl Estate	Water & Air Consent New
21	M/s. Bategal Iron Ore Mine, Quepem	Water & Air Consent New
22	M/s. Ajit Kadnekar, Chunnimol Or Gotifonda Tembo, Colomba Iron Ore Mine, Sanguem	Water & Air Consent New
23	M/s Sudha Goundalkar, Nirankal Mine – Ponda	Water & Air Consent New
24	M/s Sesa Goa Ltd, Sanquelim Mine	Water & Air Consent New
25	M/s Chowgule and Company Pvt Ltd, Colomba Mine – Sanguem	Water & Air Consent New
26	M/s Sociedade Sri Mahalaxmi Companhia Mineira Limitada – Sanguem	Water & Air Consent New
27	M/s V.D. Chowgule, Cavrem Mine – Sanguem	Water & Air Consent New
28	M/s Atchuta V.S. Velingkar, Vichundrem Mine – Sanguem	Water & Air Consent New
29	M/s Bandekar Brothers Pvt Ltd, Mobile Dry Screening Plant I, Kottambi	Air Consent New
30	M/s Bandekar Brothers Pvt Ltd, Mobile Dry Screening Plant II, Kottambi	Air Consent New
31	M/s Gajanan Padiar, Manganese Ore Mine – Quepem	Water & Air Consent New
32	M/s D.B. Bandodkar & Sons Pvt. Ltd, Matta e Dando Mine – Bicholim	Water & Air Consent New
33	M/s V.M Salgaocar & Bro Pvt. Ltd, BP Vagus – Bicholim	Water & Air Consent Renewal
34	M/s V.M Salgaocar & Bro Pvt. Ltd, Dry Screening Plant, Vagus – Bicholim	Air Consent Renewal
35	M/s Ashoka Non-Ferrous Metals Ltd – Kundaim Indl Estate	Water Consent Renewal
36	M/s. Fiemench Perfumes (I) Pvt Ltd, Kundaim Indl Estate	Water Consent Renewal
37	M/s Sesa Goa Ltd, BP Cudnem – Bicholim	Water & Air Consent Renewal

38	M/s. Rukminirama Steel Rollings Pvt Ltd, Cuncolim Indl Estate	Water Consent Renewal
39	M/s. John Distilleries Ltd, Cuncolim Indl Estate	Water Consent Renewal
40	M/s Mandovi Drydocks, Piligao	Water Consent Renewal
41	M/s Tonia Estates & Resorts Pvt. Ltd, The Oceanique Resort, Colva	Water & Air Consent Renewal
42	M/s. Britto Amusements Pvt Ltd, Vainguinim Valley Resort, Dona Paula	Water & Air Consent Renewal
43	M/s R. B. Engineers, Ponda	Water Consent Renewal
44	M/s Oceanique Paints Pvt. Ltd, Sancoale	Water Consent Renewal
45	M/s. Siddharth Milk and Milk Products, Kundaim Indl Estate	Water Consent Renewal
46	M/s. Balaji Rollings Pvt Ltd, Cuncolim Indl Estate	Water Consent Renewal
47	M/s. Global Ispat Ltd, Cuncolim Indl Estate	Water & Air Consent Renewal
48	M/s Sudiksha Engineering Works	Air Consent Renewal
49	M/s Skylark Resort – Colva	Water Consent Renewal
50	M/s. Shivam Ispat Pvt Ltd, Kundaim Indl Estate	Air Consent Renewal
51	M/s. Shri Balaji Rollings Pvt. Ltd. – Cuncolim Indl Estate	Permission to store slag

**Table 1-ac**

The following applications were approved in pursuance of the recommendations made at the 15<sup>th</sup> meeting of the Re-constituted Technical Committee held on 24/01/08

<b>Sr. No</b>	<b>Name of the unit &amp; location</b>	<b>Application cleared for</b>
1	M/s Nestle India Ltd – Usgao Indl Estate	NOC (expansion)
2	M/s. Om Shri Ganesh – Pilerne	NOC
3	M/s. Gak Winders – Ponda	NOC
4	M/s. Om Enterprises, Mapusa Indl Estate	NOC
5	M/s. Alvares Guest House – Calangute	NOC
6	M/s Desai Concrete Castings - Sanguem	NOC
7	M/s Sesa Industries, Pig Iron Plant, Amona	NOC (Pulverised Coal Plant)
8	M/s. Office of the Executive Engineer, PWD III (PHE-N), (STP),Tonca	NOC
9	M/s. Purushottam Naik – Ponda	NOC
10	M/s. Damodar Ice cream and Ice candy Factory, Quepem	NOC
11	M/s. Roltech Enterprises – Verna Indl Estate	NOC
12	M/s. S.R. Engineering – Kakoda Indl Estate	NOC
13	M/s. Shakti Printers – Canacona Indl Estate	NOC
14	M/s. Daniel Engg. Works & Ship Repairs – Sancoale	NOC
15	M/s. A.N. Perfections – Ponda	NOC
16	M/s. Seasons Polymers Pvt Ltd – Kundaim Industrial Estate	NOC
17	M/s Desai Concrete Castings - Sanguem	Water & Air Consent New
18	M/s Vintage Bottlers Pvt Ltd – Sancoale Indl Estate	Water & Air Consent New
19	M/s Composite Materials Industries Pvt Ltd – Chicalim	Water Consent New
20	M/s Hosemann Goa Pvt Ltd – Kundaim Indl Estate	Air Consent New
21	M/s. Ganesh Engineering Works, Kundaim Indl. Estate, Kundaim-Goa	Water & Air Consent New
22	M/s. Shalini Metals – Porvorim	Air Consent New
23	M/s. Melodious Waves Beach Holiday Homes – Candolim	Water Consent New
24	M/s. Priya Engineering. – Rassaim	Water Consent New

25	M/s. MSPL Gases Ltd. – Margao Industrial Estate	Air Consent New
26	M/s. Cleaners – Guirim	Water Consent New
27	M/s. Motor Industries Co. Ltd – Verna Indl Estate	Water & Air Consent New
28	M/s. Jeevan Rekha Enterprises – Corlim Indl Estate	Water Consent New
29	M/s Tito's Boutique Resorts – Candolim	Water & Air Consent New
30	M/s Goenca Resorts Pvt Ltd (Marinha Dourado) – Arpora	Water & Air Consent New
31	M/s. Summerville Beach Resort – Candolim	Water Consent New
32	M/s. Sukhsagar Beach Resort – Colva	Water Consent New
33	M/s. Savera Residency & Restaurant – Tivim	Water Consent New
34	M/s. Tourist Lodge – Old Goa	Water Consent New
35	M/s. Motel Viva Baga – Calangute	Water Consent New
36	M/s. Regina Fernandes Guest House - Aldona	Water Consent New
37	M/s. Hotal Musafir – Ponda	Water Consent New
38	M/s Goodluck Industries, Kakoda Indl Estate	Water & Air Consent New
39	M/s Villa Goesa Beach Resort – Colva	Water & Air Consent New
40	M/s. Glenmark Pharmaceuticals Ltd – (Hormone Plant) Plot No S9/ S7B, Colvale Indl Estate	Water & Air Consent New
41	M/s. Ganesh Timber Depot – Usgaon	Air Consent New
42	M/s. Surya Concrete Industries – Tuem Indl Estate	Water & Air Consent New
43	M/s. Siddhesh Engineering – Mapusa Indl Estate	Water & Air Consent New
44	M/s System Industries – Old Goa	Water & Air Consent New
45	M/s Archana Industries – Old Goa	Water & Air Consent New
46	M/s. Corlim Marine Exports Pvt Ltd – Sancoale Indl Estate	Water Consent Renewal
47	M/s. Pimenta Pereira Building Materials – Fatorda	Water Consent Renewal
48	M/s. Master Industries – Ponda	Water Consent Renewal
49	M/s. Gauri Enterprises, St. Jose de Areal	Air Consent Renewal
50	M/s. Emco Goa Pvt. Ltd, Capxem Barge Loading Jetty – Sanvordem	Air Consent Renewal
51	M/s. A.W.F.C Stationery Pvt. Ltd, Corlim	Water Consent Renewal
52	M/s. Pimenta Pereira Building, Corlim	Water Consent Renewal
53	M/s Ratiopharm India Pvt. Ltd – Verna Indl Estate	Water & Air Consent Renewal
54	M/s Hindustan Coca-Cola Beverages Pvt. Ltd – Verna Indl Estate	Air Consent Renewal
55	M/s. P.K. Transport – Sanguem	Air Consent Renewal
56	M/s. P.K. Metal Crusher & Industries – Sanguem	Air Consent Renewal
57	M/s. Cipla Ltd – Verna Indl Estate	Water & Air Consent Renewal
58	M/s. Finolex Cables Ltd – Verna Indl Estate	Water & Air Consent Renewal
59	M/s. Office of the Executive Engineer, WD III(PHE), (STP), Tonca	Water Consent Renewal
60	M/s Vaishali Foods – Kundaim Indl Estate	Water Consent Renewal
61	M/s. FMD Industries – Pilerne Indl Estate	Water Consent Renewal
62	M/s Hosemann Goa Pvt Ltd – Kundaim Indl Estate	Water Consent Renewal
63	M/s Whispering Palms Beach Resort – Candolim	Air Consent Renewal
64	M/s. Siddhivinayak Ice Bank – Old Goa	Water Consent Renewal

65	M/s. Rotoflex Film Pack Industries – Tivim Indl Estate	Water Consent Renewal
66	M/s. Neuza Chemicals – Nagoa	Water Consent Renewal
67	M/s Highland Holiday Homes Pvt Ltd – Candolim	Air Consent Renewal
68	M/s Cadila Healthcare Ltd – Kundaim Indl Estate	Air Consent Renewal
69	M/s. MSPL Gases Ltd. – Margao Industrial Estate	Water Consent Renewal
70	M/s Lark Wires & Infotech Ltd – Verna Indl Estate	Water & Air Consent Renewal
71	M/s. Sai Prasad Traders – Reis Magos	Water Consent Renewal
72	M/s. Sweety Ice Cream factory – Margao	Water Consent Renewal
73	M/s. Unitek – Bethora Indl Estate	Water Consent Renewal
74	M/s Rukmini Pack Print – Pilerne Indl Estate	Water Consent Renewal
75	M/s Shriram Enterprises, Ponda	Air Consent Renewal
76	Captain of Ports Dept – Panaji	Permission to take up dredging work at mouth of River Sal

**Table 1-ad**

The following applications were approved in pursuance of the recommendations made at the 16<sup>th</sup> meeting of the Re-constituted Technical Committee held on 05/02/08

<b>Sr. No</b>	<b>Name of the unit &amp; location</b>	<b>Application cleared for</b>
1	M/s RSS Ice Plant & Storage – Cuncolim Indl Estate	NOC
2	M/s Joma Metal Industries – Quepem	NOC
3	M/s Universal Marine Works – Sancoale Indl Estate	NOC
4	M/s. Glenmark Pharmaceuticals Ltd, Plot S-7, Colvale Indl Estate	NOC (expansion)
5	M/s AVP Cement Products – Bethora Indl Estate	Air Consent New
6	M/s Rajasthan Marble Tiles – Pilerne Indl Estate	Air Consent New
7	M/s Sharda Stone Industries – Pilerne Indl Estate	Air Consent New
8	Mr. Victor Barrett – Calangute	Water Consent New
9	Mrs. Antoinette Madeira – Calangute	Water Consent New
10	M/s. Riveira De Goa Resorts & Hotels Pvt Ltd. – Arpora	Water & Air Consent New
11	M/s Shakuntalabai Rege, Gotukwadeacho Temb Mine – Sanguem	Water & Air Consent New
12	M/s G. N. Agarwal, Borchí Mordí Mine – Quepem	Water & Air Consent New
13	M/s Sova, Odamolla Iron Ore Mine – Sanguem	Water & Air Consent New
14	M/s Sociedade Timblo Irmaos Ltda, Copila Gaichem Paul Mine – Sanguem	Water & Air Consent New
15	M/s Rajasthan Marble Tiles – Pilerne Indl Estate	Water Consent Renewal
16	M/s Sharda Stone Industries – Pilerne Indl Estate	Water Consent Renewal
17	M/s. Hotel Delmon – Panaji	Water Consent Renewal
18	M/s. Vivajay Brushes (Goa) – Pilerne Indl Estate	Water Consent Renewal
19	M/s AVP Cement Products – Bethora Indl Estate	Water Consent Renewal
20	M/s Mudit Industries – Kundaim Indl Estate	Water & Air Consent Renewal
21	M/s Saini Enterprises – Sancoale Indl Estate	Air Consent Renewal
22	M/s Zuari Indian Oil Tanking Ltd. - Zuarinagar	Water & Air Consent Renewal
23	M/s Marico Ltd – Ponda	Water & Air Consent Renewal



24	M/s V.M. Salgaocar & Bro. Pvt Ltd, Sancordem-Malpona Mine - Sanguem	Air Consent Renewal
25	M/s R.S. Gharse, Cudnem Mine - Bicholim	Air Consent Renewal
26	M/s Panduronga Timblo Industrias, Bondra Advona Mine – Sanguem	Air Consent Renewal
27	M/s Sesa Goa Ltd, Mareta Sodo Mine – Sattari	Air Consent Renewal
28	M/s Atchuta Velingkar, Sancordem Mine – Sanguem	Air Consent Renewal
29	M/s V.M. Salgaocar & Bro. Pvt Ltd, Velguem Surla Mine – Bicholim	Air Consent Renewal
30	M/s Ramacanta Velingkar, Corpadega Mine – Sanguem	Air Consent Renewal
31	M/s Cosme Costa & Sons Pvt Ltd, Gaval Sonshi Mine - Sattari	Air Consent Renewal
32	M/s R.R. Painguinkar, Chiraband Mine - Sanguem	Air Consent Renewal
33	M/s Kunda Gharse, Tollem Mine – Sanguem	Air Consent Renewal
34	M/s Berta Do Rego, Mortegal Mine - Sanguem	Air Consent Renewal
35	M/s Aleixo Manuel Da Costa, Sem Denominacao Patiem Mine - Sanguem	Air Consent Renewal
36	M/s. R.B.S. Candiaparcas – Ponda	Air Consent Renewal

**Table 1-ae**

The following applications were approved in pursuance of the recommendations made at the 17<sup>th</sup> meeting of the Re-constituted Technical Committee held on 19/02/08

<b>Sr. No</b>	<b>Name of the unit &amp; location</b>	<b>Application cleared for</b>
1	Mrs Bindu Jalan – Calangute	NOC
2	M/s Asia Pacific Breweries Ltd – Sanguem Indl Estate	NOC
3	M/s Venus Ethoxyether Pvt Ltd – Bicholim Indl Estate	NOC (for boiler)
4	M/s Manohar Packaging – Mapusa Indl Estate	NOC (expansion)
5	M/s Acron Developers Pvt. Ltd. – Candolim	NOC for STP
6	M/s Alpha Impex Pvt Ltd – Pilerne Indl Estate	NOC
7	M/s G Mats Modular – Margao Indl Estate	NOC
8	M/s Kane Metals – Quepem	NOC
9	M/s Excel Prints & Packs – Mapusa Indl Estate	NOC
10	M/s Safin Furniture – Cuncolim	Air Consent New
11	M/s D.P. Chemicals & Aromatics – Kakoda Indl Estate	Air Consent New
12	M/s Mahalaxmi Saw Mill – Ponda	Air Consent New
13	M/s Sujit Garage – Sircaim	Air Consent New
14	M/s. Bell Tower Resorts Pvt Ltd. – Varca	Water & Air Consent New
15	M/s Superior Cap Mouldings Pvt. Ltd. – Verna Indl Estate	Air Consent New
16	M/s Anziny Guest House – Calangute	Water Consent New
17	M/s Aguada Anchorage – Sinquerim	Water Consent New
18	M/s Permalite Batteries – Corlim	Water Consent New
19	M/s A Class Engg. Works – Mapusa	Water & Air Consent New
20	M/s Pauline Granites – Pilerne Indl Estate	Water & Air Consent New
21	M/s Akash Fabrication – Parra	Water & Air Consent New
22	M/s T.V. Plastics – Kundaim Indl Estate	Air Consent New
23	M/s Swastik Chemicals – Bethora Indl Estate	Air Consent New
24	M/s Sai Bakery – Guirim	Water & Air Consent

		New
25	M/s Prasanna V. Prabhudesai – Ponda	Air Consent New
26	M/s Jyoti Bakery – Navelim	Air Consent Renewal
27	M/s Superior Cap Mouldings Pvt. Ltd. – Verna Indl Estate	Water Consent Renewal
28	M/s Duraline India Pvt. Ltd. – Verna Industrial Estate	Water & Air Consent Renewal
29	M/s Timblo Pvt Ltd., Capxem Barge loading Jetty – Panchwadi	Water Consent Renewal
30	M/s Fort Aguada Beach Resort – Sinquerim	Air Consent Renewal
31	M/s Sreeja Electricals – Verna Indl Estate	Water Consent Renewal
32	M/s D.P. Chemicals & Aromatics – Kakoda Indl Estate	Water Consent Renewal
33	M/s Goa Paints & Allied Products Pvt Ltd – Kundaim Industrial Estate	Water & Air Consent Renewal
34	M/s T.V. Plastics – Kundaim Indl Estate	Water Consent Renewal
35	M/s Pentagon Engineers – Bainguinim	Water Consent Renewal
36	M/s Excel Closures – Mapusa Indl Estate	Water Consent Renewal
37	M/s Goa Telecommunications & Systems Ltd – Mapusa Indl Estate	Water Consent Renewal
38	M/s. Timblo Pvt. Ltd. (Magnetic Separation Plant) – Sanguem	Water Consent Renewal
39	M/s Chowgule & Co. Pvt Ltd, Gavanem Mine – Sattari	Air Consent Renewal
40	M/s Chowgule & Co. Pvt Ltd, Pale Mine – Sattari	Air Consent Renewal
41	M/s Chowgule & Co. Pvt Ltd, Onda Mine – Sattari	Air Consent Renewal
42	M/s Chowgule & Co. Pvt Ltd, Central Workshop – Ponda	Air Consent Renewal
43	M/s V.D. Chowgule, Vaguriem Mine – Sattari	Air Consent Renewal

**Table 1-af**

The following applications were approved in pursuance of the recommendations made at the 18<sup>th</sup> meeting of the Re-constituted Technical Committee held on 26/02/08

<b>Sr. No</b>	<b>Name of the unit &amp; location</b>	<b>Application cleared for</b>
1	M/s Vijaylaxmi Caotings Pvt. Ltd – Pissurlem Indl Estate	NOC
2	M/s Nextera Telecom Pvt Ltd – Kundaim Indl Estate	NOC
3	M/s Sigma Laboratories – Tivim Indl Estate	NOC (expansion)
4	M/s Condor Polymeric Pvt. Ltd. – Verna Indl Estate	Water & Air Consent New
5	M/s. Bharat Laundry Industries – Pilerne Indl Estate	Water & Air Consent New
6	M/s Le Grande Engineering Pvt. Ltd. – Tivim Indl Estate	Water Consent New
7	M/s Sinha Paper Cups – Verna Indl Estate	Water Consent New
8	M/s M.P. Engg & Construction – Kundaim Indl Estate	Water & Air Consent New
9	M/s National Engineers – Kundaim Indl Estate	Water Consent New
10	M/s Shubham Metal Industry – Pernem	Air Consent New
11	M/s Goa Pickles – Kundaim Indl Estate	Water Consent New
12	M/s Pegasus Prima Products (India) Pvt. Ltd. – Verna Indl Estate	Water & Air Consent New
13	M/s Sociedade Timblo Irmaos Ltda, Cormolem e Bog (Harvalem) Mine– Bicholim	Water & Air Consent New
14	M/s Sociedade Timblo Irmaos Ltda, Quelchim Tour Tambdi Mati (Cudnem) Mine– Bicholim	Water & Air Consent New
15	M/s Living Room Lifestyle Ltd. – Tivim Indl Estate	Water Consent Renewal

16	M/s Advanced Oral Care Products Pvt. Ltd. – Kundaim Indl Estate	Air Consent Renewal
17	M/s Corlim Marine Exports Pvt. Ltd. – Sancoale Indl Estate	Water Consent Renewal
18	M/s Starflex Sealing India Pvt. Ltd. – Verna Indl Estate	Water Consent Renewal
19	M/s Rahul Foods – Dauji, Old Goa	Water Consent Renewal
20	M/s National Engineers – Kundaim Indl Estate	Air Consent Renewal
21	M/s Prafulla Hede, Godeavadea Jawalachem Upor Mine – Sanguem	Air Consent Renewal
22	M/s. Timblo Pvt. Ltd. (Tollem Beneficiation Plant) – Sanguem	Water Consent Renewal

**Table 1-ag**

The following applications were approved in pursuance of the recommendations made at the 19<sup>th</sup> meeting of the Re-constituted Technical Committee held on 04/03/08

<b>Sr. No</b>	<b>Name of the unit &amp; location</b>	<b>Application cleared for</b>
1	M/s Goa Plastics & Polymer – Margao	NOC
2	M/s Parkkott Maritima Agencies Pvt Ltd – Sancoale Indl Estate	NOC
3	M/s Coastal Honda, Caculo Cars Pvt Ltd – Verna Indl Estate	NOC
4	M/s De Sa Engineering Works – Cortalim	NOC
5	M/s Nanu Industries – Valpoi	NOC (expansion)
6	M/s Alnita Paper Products – Calangute	Water & Air Consent New
7	M/s Abania Paper Products – Calangute	Water & Air Consent New
8	M/s Q-Boy – Verna Indl Estate	Water Consent New
9	M/s Sagar Industries – Verna Indl Estate	Air Consent New
10	M/s Le Grand Residencia – Old Goa	Water Consent New
11	M/s G.R.T Metal Works – Ponda	Air Consent New
12	M/s Vassudeva Tamba (3/basalt/MU) – St. Pedro, Old Goa	Air Consent New
13	M/s Sheileja V Tamba (4/basalt/MU) – St. Pedro, Old Goa	Air Consent New
14	M/s Vassudeva Tamba (5/basalt/MU) – St. Pedro, Old Goa	Air Consent New
15	M/s Manuel Da Costa (4/basalt/89) – Sanguem	Air Consent New
16	M/s Manuel Da Costa (5/basalt/89) – Sanguem	Air Consent New
17	M/s Sapana Ceramics Pvt Ltd. (3/basalt/94) – Sattari	Air Consent New
18	M/s Horizon View Guest House – Candolim	Water Consent New
19	M/s Pinnacle Industries Ltd – Honda Indl Estate	Water & Air Consent New
20	M/s Prince Multiplast Ltd. – Verna Indl Estate	Air Consent Renewal
21	M/s Precision Electronics – Verna Indl Estate	Water Consent Renewal
22	M/s Qualpro Diagnostics – Verna Indl Estate	Water Consent Renewal
23	M/s Siemens Ltd (Medical Solution Div) – Verna Indl Estate	Water & Air Consent Renewal
24	M/s R.T Metal Works – Ponda	Air Consent Renewal
25	M/s Mauli Gram Vikas Society – Pernem	Air Consent Renewal
26	M/s Rekha Stone Crusher – Bicholim	Air Consent Renewal
27	M/s XL Stone Crusher – Sanguem	Air Consent Renewal
28	M/s Puja Ferro Alloys Ltd – Cuncolim Indl Estate	Water & Air Consent Renewal
29	M/s. Maberest Hotels Pvt. Ltd. (Hotel Fidalgo) – Panaji	Water & Air Consent Renewal

30	M/s Elin Electronics Ltd. – Verna Indl Estate	Air Consent Renewal
31	M/s Topline Writing Instruments Pvt Ltd – Verna Indl Estate	Water & Air Consent Renewal
32	M/s Sagar Industries – Verna Indl Estate	Water Consent Renewal
33	M/s. Bogmallo Beach Resort – Vasco	Water Consent Renewal
34	M/s Puja Ferro Alloys Ltd – Cuncolim Indl Estate	Permission to dispose slag

**Table 1-ah**

The following applications were approved in pursuance of the recommendations made at the 20<sup>th</sup> meeting of the Re-constituted Technical Committee held on 11/03/08

<b>Sr. No</b>	<b>Name of the unit &amp; location</b>	<b>Application cleared for</b>
1	M/s Royal Wineries – Verna	NOC
2	M/s Shantadurga Dairy & Milk Products – Cuchelim	NOC
3	M/s Aruna Engineering Works – Kundaim Indl Estate	NOC (expansion)
4	M/s Begraj Engineering Works – Cuncolim Indl Estate	NOC
5	M/s Arabian Retreat – Calangute	Water Consent New
6	M/s Petals Engineers Pvt Ltd – Kundaim Indl Estate	Air Consent New
7	M/s Vaishali Foods – Kundaim Indl Estate	Air Consent New
8	M/s Apex Packaging Products Pvt Ltd – Kundaim Indl Estate	Air Consent New
9	M/s Timblo Pvt Ltd, Gautona Dusrifall Mine – Sanguem	Water & Air consent new
10	M/s. Ramada Caravela Beach Resort – Varca	Air Consent Renewal
11	M/s. Meta Copper & Alloys Ltd – Zuarinagar	Air Consent Renewal
12	M/s. Averina International Pvt Ltd – Cavelossim	Water & Air Consent Renewal
13	M/s Britacel Silicones Ltd, Kundaim Indl Estate	Water Consent Renewal
14	M/s Crompton Greaves Ltd – Kundaim Indl Estate	Air Consent Renewal
15	M/s Apex Packaging Products Pvt Ltd – Kundaim Indl Estate	Water Consent Renewal
16	M/s Sociedade Timblo Irmaos Limitada (Dignem Iron Ore Mine) – Bicholim	Air Consent Renewal
17	M/s Chowgule & Co. Pvt Ltd, Tudou Mine – Sanguem	Air Consent Renewal
18	M/s Roy Antao & Sane Antao, Monte Iranqui Mine – Sanguem	Air Consent Renewal
19	M/s Bharat Petroleum Corporation Ltd. – Vasco	Permission for augmentation of LPG storage capacity

**Table 1-ai**

The following applications were approved in pursuance of the recommendations made at the 21<sup>st</sup> meeting of the Re-constituted Technical Committee held on 18/03/08

<b>Sr. No</b>	<b>Name of the unit &amp; location</b>	<b>Application cleared for</b>
1	M/s Rizwan Plastic Industry – Pissurlem Ind Estate	NOC
2	M/s Sai Packers – Pissurlem Ind Estate	NOC
3	M/s Baba's Baag – Bicholim	NOC
4	M/s Graciano Cottages – Colva	NOC (STP)

5	M/s Tyresoles (India) Pvt Ltd – Ponda	Water & Air consent new
6	M/s Shivraj Metal Works – Mapusa Indl Estate	Water & Air consent new
7	Smt. Geetabala M.N. Parulekar, Guelliem e Gaval Mine - Pissurlem	Water & Air consent new
8	M/s Lithoferro, Calsanichomoto de Oilamol – Tivim	Water & Air consent new
9	M/s Prakash Corrugated Products – Verna Indl Estate	Water consent new
10	M/s Lokmanya Soap Works – Mapusa Indl Estate	Water & Air consent new
11	M/s Ritesh Stone Quarry – Sattari	Air consent new
12	M/s Maria Alda Pinto – Sanguem	Air consent new
13	M/s Lenz Stone Crushing Co. – St. Jose de Areal	Air consent new
14	M/s Shevanti Metal – St. Jose de Areal	Air consent new
15	M/s Sonali Metals – St. Jose de Areal	Air consent new
16	M/s Prakash V. Prabhudessai – Sarzora	Air Consent Renewal
17	M/s Salgaocar Metal Trust – Pernem	Air Consent Renewal
18	M/s Yestwant Industries – Sarzora	Air Consent Renewal
19	M/s Ritesh Aggregates – Ponda	Air Consent Renewal
20	M/s Ritesh Stone Crusher – Usgao	Air Consent Renewal
21	M/s Leofil Metals – Sanguem	Air Consent Renewal
22	M/s. Amiantit Fibreglass Industries India Pvt Ltd – Bicholim	Water & Air Consent Renewal
23	M/s. Marvcare – Verna Indl Estate	Water Consent Renewal
24	M/s Elin Electronics Ltd. – Verna Indl Estate	Water Consent Renewal
25	M/s Chowgule & Co. Pvt Ltd, Costi Mine – Sanguem	Air Consent Renewal
26	M/s V.D. Chowgule & Co. Pvt Ltd, Costi Mine – Sanguem	Air Consent Renewal
27	M/s V.M. Salgaocar & Bro Pvt Ltd, Mobile Screening & Crushing Plant at Vagus	Water Consent Renewal
28	M/s. Meta Copper & Alloys Ltd – Zuarinagar	Water Consent Renewal
29	M/s. National Paper Industries – Bicholim Indl Estate	Water Consent Renewal
30	M/s. Hindustan Coca Cola Beverages Pvt Ltd – Verna Indl Estate	Water Consent Renewal
31	M/s. Wyeth Limited – Verna Indl Estate	Water & Air Consent Renewal
32	M/s. Wallace Pharmaceuticals Limited – Ponda	Air Consent Renewal
33	M/s. Hi tech Electronics – Majorda	Water Consent Renewal
34	M/s United Breweries Ltd- Ponda	Water Consent Renewal
35	M/s United Spirits Ltd- Ponda	Water Consent Renewal
36	M/s Shanti Brick Industry – Usgao	Water Consent Renewal

**Table 1-aj**

The following applications were approved in pursuance of the recommendations made at the 22<sup>nd</sup> meeting of the Re-constituted Technical Committee held on 25/03/08

<b>Sr. No</b>	<b>Name of the unit &amp; location</b>	<b>Application cleared for</b>
1	M/s Acron Regina – Candolim	NOC
2	M/s Models Real Estate Developers (Models Status) – Dona Paula	NOC
3	M/s Ultratech Concrete – Kundaim Ind Estate	NOC
4	M/s Tin Pack Cans – Margao Ind Estate	NOC
5	M/s Pavan Packaging – Pissurlem Indl Estate	NOC
6	M/s V.S. Dempo & Co. Pvt. Ltd (Mobile Crushing & Screening Plant) – Sanguem	NOC
7	M/s Prabha Engineering Works – Bicholim	Water Consent New
8	M/s Metal Door Manufacture Co – Kundaim Indl Estate	Water & Air Consent

		New
9	M/s Le Grande Engineering Pvt. Ltd. – Tivim Indl Estate	Air Consent New
10	M/s Hotel Siesta De Goa – Varca	Water & Air Consent New
11	M/s Hotel Vilela – Mapusa	Water Consent New
12	M/s Halarnkar Industries (9/basalt) – Pernem	Air Consent New
13	M/s Halarnkar Industries (6/basalt) – Pernem	Air Consent New
14	M/s Bharmu Wadar – Pernem	Air Consent New
15	M/s Prashant Kamat (3/basalt) – Pernem	Air Consent New
16	M/s Prashant Kamat (2/basalt) – Pernem	Air Consent New
17	M/s Amar Fadate – Pernem	Air Consent New
18	M/s Gajanan Zarapkar (9/basalt) – Pernem	Air Consent New
19	M/s Gajanan Zarapkar (1/basalt) – Pernem	Air Consent New
20	M/s Shalini Metals – Pernem	Air Consent New
21	M/s Raj Metal Quarry – Bicholim	Air Consent New
22	M/s Pramod Kamat – Pernem	Air Consent New
23	M/s S. Kumar Metals – Pernem	Air Consent New
24	M/s Satpurush Metal Industries – Pernem	Air Consent New
25	M/s Hira Cashew Industries – Sanquelim	Water Consent Renewal
26	M/s Narayan Ganesh Prabhu Zantye Pvt Co – Bicholim	Water Consent Renewal
27	M/s Arvind Organics – Tivim Indl Estate	Water Consent Renewal
28	M/s Curti Hot & Cold Treads – Ponda	Water Consent Renewal
29	M/s Satpurush Metal Industries – Pernem	Air Consent Renewal
30	M/s Karthik Inductions Ltd – Kundaim Indl Estate	Air Consent Renewal

# ANNEXURE II

## MINARS DATA

**Table 2-a: MINARS DATA FOR THE MONTH OF APRIL 2007**

Sr. No.	Parameter	R. Zuari, Panchwadi	R. Zuari, Cortalim	R. Mando vi, Panaji	R. Mando vi, Tonca Marcel	R. Khand epar, Opa-Ponda	R. Valvant i, Sanq uelim	R. Assan o ra, Ass anora	R. Made i, Valpo i	R. Talpon a Cana cona	R. Kalna Chan del	Salauli m Reserv oir	
1	Temperature(°C)	32	30	32	34	33	32	29	33	30	31	32	
2	pH	7	7.4	7.7	7.3	7.6	6.95	6.7	7.28	6.1	7.2	6.2	
3	Conductivity (ms/cm)	17	47.2	49.3	35.8	0.1073	0.068	0.072	0.1234	0.0905	0.082	0.0476	
4	Dissolved Oxygen (mg/l)	4.88	5.2	2.55	5.7	6.17	6.67	6.02	6.18	6.5	5.69	6.82	
5	Turbidity (MPN)	1.2	1.6	1.5	0.3	3.9	2.8	1.3	0.6	1.3	3.4	1	
6	Nitrite Nitrogen (mg/l)	0.05	0.03	0.02	0.02	BDL	BDL	BDL	BDL	0.01	0.01	BDL	
7	Nitrogen (Nitrate) (mg/l)	0.33	0.2	0.13	0.14	0.05	0.07	0.06	0.03	0.04	0.1	0.01	
8	Ammonia Nitrogen (mg/l)	0.01	0.02	0.02	0.02	0.01	0.02	0.02	0.02	0.04	0.12	0.01	
9	Reactive Phosphate(mg/l)	0.02	0.05	0.02	0.02	0.01	0	0.01	0.01	0.01	0.01	BDL	
10	BOD (mg/l)	2.28	2.28	2.28	1.805	0.49	2.13	2.12	1.47	1.79	2.12	0.2	
11	COD(mg/l)	4.4	6.4	5.2	6.8	2.4	2.4	2.4	3.2	2	2.8	1.6	
12	Chlorides(mg/l)	5140	15052	16898	13632	11.36	7.36	12.78	22.72	19.88	11.36	11.36	
13	Feacal Coliform MPN/100ml	350	240	NIL	240	49	16000	920	130	350	23	nil	
14	Total Coliform MPN/100ml	540	350	NIL	350	79	24000	1600	240	540	33	<2	
HEAVY METALS													
15	Copper (mg/l)	water	ND	ND	0.001	0.001	ND	ND	0.002	0.017	ND	0.003	ND
		sedime nt	0.056	0.061	0.053	0.025	0.027	0.051	0.059	0.083	0.063	0.004	0.051
16	Zinc (mg/l)	water	0.011	0.01	0.019	0.017	0.006	0.005	0.013	0.008	0.004	0.031	0.006
		sedime nt	0.063	0.111	0.103	0.05	0.054	0.08	0.086	0.131	0.066	0.003	0.103
17	Nickel (mg/l)	sedime nt	0.002	0.001	NIL	0.012	0.018	0.01	0.007	0.013	0.003	ND	ND
		water	0.055	0.009	0.031	0.068	0.018	0.028	0.005	0.049	0.014	0.702	0.044
18	Cobalt (mg/l)	sedime nt	0.002	0.003	0.001	ND	0.002	0.001	0.001	0.001	0.002	ND	0.003
		water	0.042	0.045	0.037	0.035	0.047	0.045	0.033	0.047	0.031	0.087	0.041
19	Chromi um (mg/l)	sedime nt	0.002	0.003	0.001	0.003	0.003	0.001	0.001	0.003	0.003	ND	0.003
		sedime nt	0.224	0.12	0.055	0.095	0.077	0.189	0.069	0.073	0.068	0.791	0.208
20	Cadmiu m (mg/l)	water	0.003	0.003	0.001	0.001	0.003	0.001	0.001	0.002	0.002	0.001	0.002
		water	0.002	0.003	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.003	0.002
21	Lead (mg/l)	water	ND	ND	ND	ND	ND	0.002	0.003	0.001	ND	ND	ND
		sedime nt	0.023	0.067	0.033	0.03	0.038	0.032	0.222	0.031	0.025	0.035	0.126
22	Arsenic (mg/l)	water	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
		sedime nt	0.001	ND	ND	ND	ND	0.002	0.001	0.003	ND	0.001	0.013

**Table 2-b: RIVER KHANDEPAR AT OPA -GOA 2007-2008**

Sr. No.	Parameters	May-07	Jun-07	Jul-07	Aug-07	Sep-07	Oct-07	Nov-07	Dec-07	Jan-08	Feb-08
1	Temperature(°C)	32	32	27	27	26	27	26	27	27	29
2	pH	6.2	7.3	7.3	6.4	6.1	7.2	6.5	7.1	7.1	7.2
3	Conductivity (µs/cm)	172.6	105.5	45.8	46.8	36.1	47.0	58.4	80.4	96.1	98.2
4	Dissolved Oxygen mg/l	7.17	6.84	7.56	7.32	7.49	7.50	7.49	7.50	6.51	6.80
5	Turbidity	1.70	7.80	0.39	17.20	39.00	19.00	1.10	1.60	19.00	3.50
6	Nitrite Nitrogen mg/l	BDL	BDL	BDL	BDL	0.01	BDL	BDL	BDL	BDL	BDL
7	Nitrogen (Nitrate) mg/l	0.04	0.08	0.18	0.14	0.14	0.01	0.01	0.12	0.09	0.10
8	Ammonia	BDL	0.18	BDL	0.08	0.05	BDL	BDL	BDL	-	-
9	Phosphate	0.06	0.08	BDL	0.01	0.04	0.01	0.02	BDL	BDL	BDL
10	BOD mg/l	1.81	3.60	1.06	0.99	0.51	0.44	4.10	0.80	1.86	0.90
11	COD	4.80	6.00	-	5.54	4.86	5.00	12.00	6.00	9.20	7.60
12	Chlorides	39.76	12.78	8.88	5.68	7.10	7.10	4.26	9.94	11.40	7.10
13	Feacal Coliform MPN/100ml	110	9200	540	490	1300	220	49	79	27	8
14	Total Coliform MPN/100ml	220	16000	920	2400	2400	920	79	130	33	11

**Table 2-c: RIVER MADEI AT DABOS,VALPOI -GOA 2007-2008**

Sr. No.	Parameters	May-07	Jun-07	Jul-07	Aug-07	Sep-07	Oct-07	Nov-07	Dec-07	Jan-08	Feb-08
1	Temperature(°C)	34	32	25	25	26	26	25	26	27	26
2	pH	6.4	7.3	7.8	6.7	7.1	7.1	7.0	7.2	7.4	7.2
3	Conductivity (µs/cm)	124.2	114.1	66.9	46.7	43.9	55.9	63.3	71.3	78.9	98.4
4	Dissolved Oxygen mg/l	6.51	6.67	8.46	6.84	8.46	8.10	8.46	7.20	7.49	6.51
5	Turbidity	1.90	7.10	10.40	14.40	186.00	3.10	1.10	1.10	2.30	9.30
6	Nitrite Nitrogen mg/l	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.01	BDL
7	Nitrogen (Nitrate) mg/l	0.02	0.06	0.12	0.07	0.06	0.04	0.03	0.03	0.01	0.02
8	Ammonia	0.05	0.04	BDL	0.01	0.03	BDL	BDL	0.06	-	-
9	Phosphate	0.08	0.02	0.01	0.01	0.02	0.01	0.02	BDL	BDL	BDL
10	BOD mg/l	1.32	1.47	1.31	1.00	0.83	0.90	1.30	2.60	1.71	1.30
11	COD	2.00	2.80	-	4.75	4.50	4.80	10.80	7.60	9.60	7.60
12	Chlorides	21.30	8.52	19.88	5.68	11.36	7.10	8.52	4.26	7.10	7.10
13	Feacal Coliform MPN/100ml	920	540	350	1100	1300	240	490	2	27	33
14	Total Coliform MPN/100ml	1600.0	1600	920	1400	3500	350	1300	5	34	49



**Table 2-d: RIVER VALVANTI AT SANQUELIM-GOA 2007-2008**

Sr. No.	Parameters	May-07	Jun-07	Jul-07	Aug-07	Sep-07	Oct-07	Nov-07	Dec-07	Jan-08	Feb-08
1	Temperature(°C)	32	31	26	27	26	28	25	25	26	26
2	pH	6.3	6.9	7.2	6.4	6.8	6.6	6.5	6.5	7.0	6.9
3	Conductivity (µs/cm)	65.2	63.2	49.6	44.5	40.6	47.2	61.1	87.1	63.1	71.2
4	Dissolved Oxygen mg/l	6.84	6.99	7.81	6.90	7.49	7.70	8.14	6.80	7.49	7.20
5	Turbidity	0.50	-	7.20	5.70	192.00	0.70	0.10	1.50	1.30	0.60
6	Nitrite Nitrogen mg/l	BDL	0.06	BDL	BDL	BDL	0.01	BDL	BDL	0.01	BDL
7	Nitrogen (Nitrate) mg/l	0.06	0.12	0.16	0.11	0.08	0.17	0.12	0.09	0.10	0.16
8	Ammonia	0.08	0.03	0.03	0.01	0.03	0.01	BDL	0.02	0.17	0.17
9	Phosphate	0.05	0.02	0.01	0.01	0.01	0.01	0.02	BDL	0.01	0.01
10	BOD mg/l	3.76	5.04	0.99	0.65	0.51	0.90	1.90	2.90	2.62	2.33
11	COD	2.00	2.80	-	5.94	5.22	3.80	5.20	4.80	5.60	2.40
12	Chlorides	22.72	7.10	22.72	7.10	8.52	11.36	8.52	9.94	8.52	17.04
13	Feecal Coliform MPN/100ml	3500	9200	9200	9200	9200	540	1300	540	14	920
14	Total Coliform MPN/100ml	5400	24000	16000	16000	16000	920	2400	1600	17	1600

**Table 2-e: RIVER KALNA AT CHANDEL,PERNEM-GOA 2007-2007**

Sr. No.	Parameters	May-07	Jun-07	Jul-07	Aug-07	Sep-07	Oct-07	Nov-07	Dec-07	Jan-08	Feb-08
1	Temperature(°C)	31	27	25	26	26	27	25	27	26	26
2	pH	6.7	7.4	7.6	7.2	7.2	6.9	7.4	7.4	7.0	7.6
3	Conductivity (µs/cm)	75.5	-	44.2	54.2	60.1	82.8	68.8	69.8	88.2	97.2
4	Dissolved Oxygen mg/l	7.66	7.32	7.72	7.32	7.40	7.10	7.81	7.80	8.14	6.99
5	Turbidity	1.20	-	21.00	2.60	5.00	11.90	2.50	2.80	1.90	6.70
6	Nitrite Nitrogen mg/l	BDL	BDL	BDL	BDL	BDL	0.01	BDL	BDL	BDL	BDL
7	Nitrogen (Nitrate) mg/l	0.09	0.15	0.05	0.05	0.05	0.10	0.03	0.03	0.03	BDL
8	Ammonia	0.03	0.11	0.01	0.02	0.02	BDL	BDL	BDL	-	-
9	Phosphate	0.04	0.02	BDL	0.01	0.02	0.02	0.02	BDL	0.02	0.01
10	BOD mg/l	3.44	0.82	2.11	0.57	0.42	1.20	1.60	1.30	0.67	1.23
11	COD	3.20	3.20	-	10.69	4.50	2.40	5.60	5.60	3.20	11.20
12	Chlorides	15.60	11.36	9.94	8.52	7.10	28.40	4.26	4.26	5.68	11.36
13	Feecal Coliform MPN/100ml	180.0	2400	790	3500	9200	540	130	8	240	240
14	Total Coliform MPN/100ml	1600	3500	1300	5400	16000	1600	240	920	350	350

**Table 2-f: RIVER ASSANORA AT ASSANORA-GOA 2007-2008**

Sr. No.	Parameters	May-07	Jun-07	Jul-07	Aug-07	Sep-07	Oct-07	Nov-07	Dec-07	Jan-08	Feb-08
1	Temperature(°C)	32	29	28	28	27	29	25	25	25	24
2	pH	6.3	6.3	7.2	6.2	6.3	6.3	6.7	6.2	6.8	6.8
3	Conductivity (µs/cm)	66.1	94.8	59.9	47.4	44.7	46.7	65.0	72.7	60.5	73.3
4	Dissolved Oxygen mg/l	6.51	5.21	6.50	5.69	6.67	6.80	7.16	5.40	6.51	4.72
5	Turbidity	1.60	-	2.30	5.90	5.60	3.70	0.30	1.70	0.60	1.20
6	Nitrite Nitrogen mg/l	BDL	BDL	BDL	BDL	BDL	0.01	BDL	BDL	BDL	BDL
7	Nitrogen (Nitrate) mg/l	0.04	0.18	0.25	0.18	0.14	0.20	0.12	0.11	0.05	0.07
8	Ammonia	0.02	BDL	BDL	0.01	0.04	0.02	BDL	0.05	-	-
9	Phosphate	0.05	0.02	0.01	0.01	0.01	0.01	0.02	BDL	0.01	0.01
10	BOD mg/l	1.80	1.80	1.31	0.50	0.99	0.70	1.20	2.80	2.78	0.99
11	COD	4.40	4.00	170.00	5.54	4.14	4.60	3.20	4.40	3.60	3.20
12	Chlorides	19.88	14.20	15.62	9.94	15.62	15.62	7.10	7.10	5.68	9.94
13	Feacal Coliform MPN/100ml	240.0	2800	2800	5400	1300	240	340	79	33	930
14	Total Coliform MPN/100ml	350	9200	9200	9200	2400	540	2400	130	34	240

**Table 2-g: RIVER TALPONA AT CANACONA-GOA 2007-2008**

Sr. No.	Parameters	May-07	Jun-07	Jul-07	Aug-07	Sep-07	Oct-07	Nov-07	Dec-07	Jan-08	Feb-08
1	Temperature(°C)	34.00	31.00	27.00	27.00	27.00	27.00	27.00	27.00	27.00	29.00
2	pH	7.50	8.00	7.00	6.97	6.66	6.50	7.90	6.58	6.70	7.10
3	Conductivity (µs/cm)	105.90	76.00	53.80	47.80	46.10	47.50	7.50	51.60	59.80	56.00
4	Dissolved Oxygen mg/l	7.01	7.32	7.41	7.64	7.65	7.80	8.30	7.80	6.84	6.84
5	Turbidity	11.10	-	0.50	5.20	19.00	17.00	0.80	1.80	2.22	2.30
6	Nitrite Nitrogen mg/l	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
7	Nitrogen (Nitrate) mg/l	0.01	0.03	0.20	0.09	0.10	0.16	0.05	0.02	BDL	0.03
8	Ammonia	0.06	0.04	0.02	0.03	0.06	0.04	0.01	0.02	-	-
9	Phosphate	0.03	0.02	BDL	0.01	0.02	0.02	0.02	BDL	0.01	0.01
10	BOD mg/l	3.89	1.31	2.90	2.28	1.48	1.55	4.10	3.00	1.81	1.97
11	COD	4.00	4.80	-	8.71	2.70	4.80	4.40	4.00	8.00	10.00
12	Chlorides	51.12	7.10	11.36	8.52	22.72	21.30	7.10	5.68	7.10	12.78
13	Feacal Coliform MPN/100ml	23.0	140	220	2400	3500	350	1300	17	17	33
14	Total Coliform MPN/100ml	33	280	350	3500	9200	920	2400	33	27	79

**Table 2-h: RIVER MANDОВI AT PANAJI-GOA 2007-2008**

Sr. No.	Parameters	May-07	Jun-07	Jul-07	Aug-07	Sep-07	Oct-07	Nov-07	Dec-07	Jan-08	Feb-08
1	Temperature(°C)	34	29	27	28	27	27	29	30	29	27
2	pH	7.6	7.8	7.4	8.1	7.8	7.6	7.9	8.0	7.9	8.0
3	Conductivity (ms/cm)	51.5	-	6.3	23.5	39.8	19.0	30.5	47.2	47.5	49.6
4	Dissolved Oxygen mg/l	6.03	6.02	7.50	6.02	7.20	6.50	6.50	6.80	7.16	6.99
5	Turbidity	2.40	-	25.00	11.50	22.00	7.80	7.50	6.60	2.90	10.00
6	Nitrite Nitrogen mg/l	0.02	0.01	BDL	BDL	BDL	0.02	0.01	0.01	BDL	0.01
7	Nitrogen (Nitrate) mg/l	0.01	0.13	0.11	0.06	0.08	0.33	0.03	0.02	0.01	0.02
8	Ammonia	0.04	0.07	0.03	0.09	0.20	0.13	0.03	0.03	-	-
9	Phosphate	0.01	0.03	0.04	0.05	0.05	0.02	0.02	0.01	0.01	0.02
10	BOD mg/l	2.78	0.82	2.08	1.51	4.93	1.20	3.30	3.20	0.99	1.47
11	COD	6.00	7.60	-	13.07	17.10	18.00	20.40	47.60	22.00	22.40
12	Chlorides	18602	17324	2840	10082	15904	10082	13206	18176	19028	21158
13	Feecal Coliform MPN/100ml	280	920	1300	2800	3500	920	<2	2	2	4
14	Total Coliform MPN/100ml	920.0	1600	2400	3400	5400	1600	2	70	7	7

**Table 2-i: RIVER ZUARI AT CORTALIM -GOA 2007-2008**

Sr. No.	Parameters	May-07	Jun-07	Jul-07	Aug-07	Sep-07	Oct-07	Nov-07	Dec-07	Jan-08	Feb-08
1	Temperature(°C)	33.00	33.00	28.00	28.00	27.00	29.00	30.00	29.00	30.00	29.00
2	pH	7.80	7.04	6.40	7.05	7.16	7.20	7.70	8.06	7.50	8.00
3	Conductivity (ms/cm)	49.10	46.70	4.63	0.38	2.61	5.81	37.50	40.80	36.40	38.00
4	Dissolved Oxygen mg/l	6.52	5.37	6.99	7.64	6.99	7.00	7.00	8.60	6.67	6.51
5	Turbidity	5.80	-	29.00	31.00	40.00	19.00	58.00	3.80	3.30	3.20
6	Nitrite Nitrogen mg/l	0.03	0.06	0.02	BDL	0.04	0.01	BDL	BDL	0.02	BDL
7	Nitrogen (Nitrate) mg/l	0.06	0.07	0.25	0.17	0.20	0.12	0.05	0.02	0.01	0.01
8	Ammonia	0.08	0.11	0.02	0.05	0.10	0.03	0.04	0.06	-	-
9	Phosphate	0.03	0.06	0.08	0.02	0.02	0.06	0.02	0.03	0.02	0.03
10	BOD mg/l	4.70	2.44	1.63	2.28	2.61	1.90	5.00	5.10	2.87	1.64
11	COD	6.00	7.60	-	2.38	4.14	22.40	20.40	40.00	24.00	36.80
12	Chlorides	17600	18034	1562	994	1988	2982	14484	16330	13774	19738
13	Feecal Coliform MPN/100ml	49	170	920	790	3500	350	9	9	17	2
14	Total Coliform MPN/100ml	79	540	2400	2400	5400	540	14	12	22	4

**Table 2-j: RIVER MANDОВI AT TONCA- MARCELA -GOA 2007-2008**

Sr. No.	Parameters	May-07	Jun-07	Jul-07	Aug-07	Sep-07	Oct-07	Nov-07	Dec-07	Jan-08	Feb-08
1	Temperature(°C)	32	32	27	27	27	27	29	28	27	26
2	pH	6.6	7.3	7.6	6.8	6.9	6.8	7.2	7.2	7.5	7.4
3	Conductivity (ms/cm)	41.1	32.5	0.1	0.1	0.1	0.1	2.8	17.1	25.8	29.7
4	Dissolved Oxygen mg/l	5.54	4.88	8.46	6.19	7.65	7.30	7.50		6.51	6.51
5	Turbidity	1.20	-	12.30	10.10	7.00	9.60	4.60	1.60	1.70	1.20
6	Nitrite Nitrogen mg/l	0.05	0.04	BDL	BDL	BDL	0.01	BDL	0.01	0.03	0.03
7	Nitrogen (Nitrate) mg/l	0.07	0.09	0.15	0.10	0.11	0.11	0.12	0.06	0.04	0.04
8	Ammonia	0.01	0.12	0.02	0.02	0.02	0.03	0.03	0.08	-	-
9	Phosphate	0.05	0.02	0.01	0.01	0.02	0.01	0.02	0.01	BDL	0.02
10	BOD mg/l	2.30	2.12	1.60	0.02	0.83	0.70	2.00	3.30	4.73	4.40
11	COD	7.20	6.40	-	8.32	5.94	2.00	2.00	9.20	16.80	8.00
12	Chlorides	10792	12780	1704	284	1775	1278	852	5822	9230	13206
13	Feecal Coliform MPN/100ml	2400	540	1600	3500	2400	920	2200	350	7	33
14	Total Coliform MPN/100ml	3500	920	2400	5400	3500	1600	5400	540	9	79

**Table 2-k: RIVER ZUARI AT PANCHWADI-GOA 2007-2008**

Sr. No.	Parameters	May-07	Jun-07	Jul-07	Aug-07	Sep-07	Oct-07	Nov-07	Dec-07	Jan-08	Feb-08
1	Temperature(°C)	31	30	28	28	28	28	28	28	27	29
2	pH	6.5	6.7	7.3	6.4	6.4	6.9	6.9	7.0	7.0	7.1
3	Conductivity (ms/cm)	22.1	16.1	0.1	0.1	0.1	0.1	1.0	10.3	14.0	8.2
4	Dissolved Oxygen mg/l	6.03	4.60	6.66	7.16	7.80	7.20	6.80	6.80	6.99	6.50
5	Turbidity	2.20	-	15.80	6.60	4.10	9.90	12.20	3.20	0.50	6.20
6	Nitrite Nitrogen mg/l	0.06	0.10	BDL	BDL	BDL	0.01	BDL	0.01	0.06	0.02
7	Nitrogen (Nitrate) mg/l	0.12	0.10	0.15	0.12	0.11	0.09	0.02	0.05	0.04	0.10
8	Ammonia	0.03	0.10	0.01	0.03	0.04	0.01	0.06	0.05	-	-
9	Phosphate	0.04	0.03	0.01	0.01	0.01	0.01	0.04	0.01	BDL	0.01
10	BOD mg/l	3.43	3.30	1.13	1.32	0.99	0.75	1.20	0.80	2.36	0.90
11	COD	5.20	5.60	-	8.71	4.14	1.60	6.00	24.00	13.60	12.00
12	Chlorides	6958	5680	1207	426	1846	1988	284	3266	4666	2414
13	Feecal Coliform MPN/100ml	350	350	920	1300	2800	110	5	29	33	11
14	Total Coliform MPN/100ml	540	540	1600	2400	9200	140	8	130	49	17

**Table 2-I: RIVER SALAULIM DAM AT SALAULIM,  
SANGUEM-GOA 2007-2008**

Sr. No.	Parameters	Jul-07	Oct-07	Jan-08
1	Temperature(°C)	28	28	28
2	pH	6.71	7.1	7.2
3	Conductivity (µs/cm)	59	36.4	42.2
4	Dissolved Oxygen mg/l	7.72	5.54	7.1
5	Turbidity	1.7	1	0.5
6	Nitrite Nitrogen mg/l	BDL	0.01	BDL
7	Nitrogen (Nitrate) mg/l	0.09	0.05	BDL
8	Ammonia	0.07	0.02	
9	Phosphate	BDL	0.01	BDL
10	BOD mg/l	0.81	0.76	0.5
11	COD		6.8	6
12	Chlorides	36.92	12.78	2.84
13	Feacal Coliform MPN/100ml	8	<2	<2
14	Total Coliform MPN/100ml	13	2	2

**Table 2-m: MINARS DATA FOR THE MONTH OF MARCH 2008**

Sr. No.	Parameter	R. KushavatiSanguem	R. KhandeparCo dli	R. Sal, Panzorconi Cuncolim	R. Sal, Mobor	Creek at Dando Mollo, Velsao	Mayem Lake, bicholim	R. Chapora nr Allorna, Fort	R. Mapusa, Mapusa	Cumbarjua Canal, Syngenta, Corlim	R. Bicholim Barazan nagar
1	Temperature(°C)	26	29	25	30	30	30	30	31	30	28
2	pH	7.1	7.3	6.5	7.8	8.8	6.8	7.2	7	7.3	7.1
3	Velocity (m/sec)	0.39	0.03	0.11	0.14					0.07	0.09
4	Conductivity (ms/cm)	0.14 6	0.075	0.0127	45	8.08	0.044	1.37	28.76	38.6	0.335
5	Dissolved Oxygen (mg/l)	6.17	5.36	4.56	5.69	7.49	7.32	6.84	3.58	6.35	8.14
6	Turbidity (NTU)	4.2	2.5	0.7	22	2	6.8	4.1	2.5	4.6	3.8
7	Nitrite Nitrogen (mg/l)	BDL	BDL	BDL	BDL	0.13	BDL	BDL	0.01	0.01	0.01
8	Nitrogen (Nitrate) (mg/l)	0.09	0.06	0.06	0.01	5.01	BDL	0.08	0.09	0.08	0.21
9	Phosphate as P (mg/l)	BDL	BDL	BDL	0.03	0.02	BDL	BDL	0.03	0.01	0.01
10	BOD (mg/l)	2.05	1.8	1.07	2.21	1.32	1.72	2.62	1.96	2.86	3.19
11	COD (mg/l)	2	6	4	44	12	4	16	24	32	4
12	Chlorides mg/l)	5.7	5.7	9.9	17466	2982	12.78	639	10934	15904	426
13	Feacal Coliform MPN/100ml	920	350	70	4	23	790	33	33	540	1300
14	Total Coliform MPN/100ml	2400	2400	280	7	240	3500	110	170	2400	5400

# ANNEXURE III

## AMBIENT AIR QUALITY DATA

Table 3-a Station : Panaji

Month &	SO <sub>2</sub>		NO <sub>x</sub>		RSPM		SPM	
Year	No. of Obs	Arith Mean	No. of Obs	Arith Mean	No. of Obs	Arith Mean	No. of Obs	Arith Mean
April ' 07	54	2	54	8.4	27	48.7	26	116.2
May ' 07	54	2	54	9.8	27	33.1	27	76.8
June ' 07	48	2.4	48	8.2	24	33	24	63.1
July ' 07	53	2.6	53	6	27	30.9	27	59.4
Aug. ' 07	54	2	54	4.9	27	30.9	27	59.4
Sept. ' 07	48	3.1	48	6.5	24	28.6	24	86.8
Oct. ' 07	54	2	54	13.1	26	47.1	26	81.4
Nov. ' 07	45	2.3	45	15.7	23	53.2	22	103.9
Dec. ' 07	48	2.8	48	19.6	24	101.5	24	193.7
Jan. ' 08	57	2	57	19.3	29	100.2	29	179.3
Feb. ' 08	48	2.8	48	16.2	24	92.7	24	176.3
March ' 08	54	2.3	54	14.5	27	64.1	27	111

Table 3-b Station : Vasco da Gama

Month &	SO <sub>2</sub>		NO <sub>x</sub>		RSPM		SPM	
Year	No. of Obs	Arith Mean	No. of Obs	Arith Mean	No. of Obs	Arith Mean	No. of Obs	Arith Mean
April ' 07	48	2.7	48	15.6	24	35.7	24	156.5
May ' 07	57	2	57	13.5	29	40	29	169.3
June ' 07	47	2.1	48	11.1	24	27.7	23	90.8
July ' 07	54	2	54	6.6	27	32.1	27	69.7
Aug. ' 07	54	2	54	7.8	27	36.8	27	98.9
Sept. ' 07	48	2.5	48	7.7	24	36.6	24	107.3
Oct. ' 07	54	2.5	54	14	27	52.3	27	98.7
Nov. ' 07	50	3.7	50	16	25	62.1	25	111.8
Dec. ' 07	46	2.1	46	20.9	23	85.2	23	152.2
Jan. ' 08	53	2.1	53	16.3	27	71	27	145.8
Feb. ' 08	48	2.2	48	17.3	24	83.7	24	220.5
March ' 08	48	2.7	48	16.8	24	52.9	24	127.2

Table 3-c Station : MPT-Mormugao

Month &	SO <sub>2</sub>		NO <sub>x</sub>		RSPM		SPM	
Year	No. of Obs	Arith Mean	No. of Obs	Arith Mean	No. of Obs	Arith Mean	No. of Obs	Arith Mean
April ' 07	46	2.1	45	6.6	23	35.7	23	88
May ' 07	55	2	55	5.4	28	20.3	28	76.7
June ' 07	47	2	48	6.8	24	14.3	23	53.3
July ' 07	54	2	54	5	27	22	27	45.5
Aug. ' 07	44	2.5	44	4.9	23	25.9	23	77.3
Sept. ' 07	42	2.5	42	5.1	21	30.2	21	62.3
Oct. ' 07	52	2.8	52	10.7	26	45.7	26	77.
Nov. ' 07	52	4.4	52	17.3	26	60.5	26	109.7
Dec. ' 07	42	2.1	42	16.3	21	96.6	21	172.8
Jan. ' 08	54	2.7	54	11	27	73.9	27	129
Feb. ' 08	48	3.8	48	9.1	24	100.2	24	172.9
March ' 08	48	2.5	48	8.2	24	53.3	24	103.5

## ANNEXURE IV

### DAILY WEATHER MONITORING DATA

DATE	TEMPERATURE IN °C			HUMIDITY IN %			RAINFALL (Max in mm)	SOLAR RADIATION IN CALORIES IN cm2/minute			SPEED IN Km/H			WIND DIRECTION RANGE IN DEG FOR MAX % OF THE TIME IN THAT DIRECTION
	MIN	MAX	AVG	MIN	MAX	AVG		MIN	MAX	AVG	MIN	MAX	AVG	
01/04/2007	27.4	32.4	29.8	68.6	99	84.8	0	0	1.64	0.33	1	16.1	6.59	201-360
02/04/2007	29	32.2	30.4	74.1	91	82.8	0	0	1.2	0.28	0.4	13.5	6.33	201-360
03/04/2007	27.5	32.4	30.2	73	98	84.6	0	0	0.98	0.23	0	13	6.03	201-360
04/04/2007	27.5	32.9	30.2	71	97	86	0	0	1.57	0.35	1.3	16	6.39	201-360
05/04/2007	28.5	33.4	30.8	70	95.3	84.13	0	0	1.6	0.32	0	13.6	6.3	201-360
06/04/2007	28.5	32.4	30.8	73.8	98	84.3	0	0	1.55	0.31	1.2	13.4	6.32	201-360
07/04/2007	28	32.5	30.6	69.4	97	82.6	0	0	0.97	0.22	1	13.8	6.23	201-360
08/04/2007	26.5	33.4	30.4	69	96	82.6	0	0	1.65	0.34	1.7	16.6	6.93	201-360
09/04/2007	28.3	32.9	30.4	66.6	91.7	80.5	0	0	1.68	0.39	1.3	19.3	7.14	201-360
10/04/2007	28	32.9	30.7	67.1	92.4	78.4	0	0	1.7	0.41	1.4	17.3	7.22	201-360
11/04/2007	27.6	32.5	30.2	70.4	94	81.1	0	0	1.65	0.37	1.4	15.3	7.22	201-360
12/04/2007	26.8	32.8	30	55.3	96	76.5	0	0	1.74	0.45	0	15.7	7.8	201-360
13/04/2007	26	32.5	29.7	56.9	92.3	76.9	0	0	1.74	0.45	0.7	21.6	7.65	201-360
14/04/2007	26	32.3	29.5	63.9	93	79.7	0	0	1.7	0.41	1.4	17.7	7.53	201-360
15/04/2007	27	32.8	29.9	57.4	89	71.7	0	0	1.66	0.45	3.4	17.5	8.88	201-360
16/04/2007	27	32.8	29.7	61.4	98	82.1	0	0	1.68	0.48	0.8	15.5	6.42	201-360
17/04/2007	27.9	32.3	31.1	68.1	87	74.5	0	0	1.68	0.64	2.9	14.5	9.65	201-360
18/04/2007	26.1	32.3	29.5	67.2	85	76.4	0	0	1.72	0.46	1.8	16.7	6.83	201-360
19/04/2007	27.4	33	30.1	65.9	95	81.7	0	0	1.68	0.34	0.4	17.9	7.3	201-360
20/04/2007	28.4	34.6	30.9	62.3	91	79.7	0	0	1.74	0.38	0.4	19.8	7.96	201-360
21/04/2007	29.5	32.5	31	71.1	88.6	80.7	0	0	1.63	0.31	2.5	21.1	10	201-360
22/04/2007	27.5	32.5	30.2	32.4	91	78.6	0	0	1.76	0.39	2.7	19.9	8.9	201-360
23/04/2007	26.7	32.5	29.6	61	90.2	77.7	0	0	1.77	0.48	4.7	21.5	9.76	201-360
24/04/2007	25.4	33.8	29.7	54.4	95.5	76.6	0	0	1.74	0.5	1.9	19.7	8.85	201-360
25/04/2007	25.7	34.7	30.2	53.3	92	75.9	0	0	1.77	0.48	2.5	15.6	7.6	201-360
26/04/2007	26.5	33.2	30.3	61.9	93.3	78.1	0	0	1.73	0.44	1.6	16.9	7.32	201-360
27/04/2007	28.2	33	30.7	67	94	80.5	0	0	1.68	0.39	0.3	17.2	7.08	201-360
28/04/2007	28.5	32.9	30.9	65.4	88.7	78.6	0	0	1.71	0.41	0.8	16.2	7.19	201-360
29/04/2007	28	33.2	30.8	71	87.4	80.5	0	0	1.67	0.3	0.5	16	7.65	201-360
30/04/2007	27.5	34.7	30.9	61	87.8	76.6	0	0	1.77	0.49	0	16.4	7.16	201-360

01/05/2007	29	32.8	30.8	71.3	90	81.5	0	0	1.63	0.34	1.8	17.7	7.62	201-360
02/05/2007	27.6	33.3	30.7	66.8	96	80.7	0	0	1.67	0.37	0.7	13.8	7.07	201-360
03/05/2007	30	32.7	31.2	71.1	86.6	78.7	0	0	1.58	0.38	1.1	16.6	8.45	201-360
04/05/2007	28.5	32.6	30.8	69.6	93.1	79.7	0	0	1.02	0.23	1.3	18.8	7.45	201-360
05/05/2007	29.1	32.9	30.9	67.8	87	78.2	0	0	1.05	0.31	1.4	17	8.14	201-360
06/05/2007	29	32.7	30.7	66	86	77.7	0	0	1.17	0.27	1.4	19.2	8.75	201-360
07/05/2007	29.9	32.6	31.1	70.8	85.6	78.9	0	0	1.18	0.25	1.2	14.9	6.75	201-360
08/05/2007	28.5	32.5	30.9	64.9	89.4	77.1	0	0	1.77	0.42	0	15	7.26	201-360
09/05/2007	28.4	32.7	31.1	62.5	88.3	74.5	0	0	1.77	0.44	2.5	18.4	9.2	201-360
10/05/2007	28	32.4	30.7	64.9	90.4	75.4	0	0	0.86	0.22	2.7	16.9	8.89	201-360
11/05/2007	27.6	32.3	30.5	66.4	89	77.2	0	0	0.72	0.23	1.7	17	9.49	201-360
12/05/2007	28.2	32.4	30.7	64.9	89	76.8	0	0	1.41	0.25	1.3	18.5	9.05	201-360
13/05/2007	28	32.4	30.4	65.2	87	76.3	0	0	1.77	0.4	3.9	23.1	10.9	201-360
14/05/2007	27.4	31.9	30.2	64.7	86	76.1	0	0	1.77	0.39	2.9	23.2	11.14	201-360
15/05/2007	27.9	31.8	30.1	62.8	84	73	0	0	1.77	0.39	2.2	20.1	9.97	201-360
16/05/2007	26.1	32.1	29.8	60.9	93.4	76.2	0	0	1.77	0.44	2	21.2	8.85	201-360
17/05/2007	27	33.4	30.6	62	96	76.2	0	0	1.77	0.44	1	16	7.3	201-360
18/05/2007	27	32.9	30.6	65.9	94.9	77.9	0	0	1.77	0.48	0.2	16.6	7.25	201-360
19/05/2007	27.5	32.5	30.6	65.6	94.6	77.4	0	0	1.77	0.47	1	21.2	8.23	201-360
20/05/2007	27.7	32.5	30.6	66.3	94	79.3	0	0	1.77	0.38	1.2	16.6	7.67	201-360
21/05/2007	28	32.5	30.8	67.7	94	79.2	0	0	1.77	0.47	1.5	18.5	7.84	201-360
22/05/2007	28.8	33.2	30.8	94	94	80.3	0	0	1.77	0.35	1.3	16.5	7.34	201-360
23/05/2007	28.5	33.5	31.3	68	96	79.4	0	0	1.78	0.49	0.8	17.9	8.81	201-360
24/05/2007	27.3	33.3	31.2	66.8	96.6	80.6	0	0	1.77	0.37	0	18.8	7.37	201-360
25/05/2007	26.8	32.5	30.8	66.8	99	79.7	0	0	1.78	0.37	1.7	17.1	7.33	201-360
26/05/2007	27.4	33.3	30.74	60.4	96	76.51	0	0	1.78	0.58	1.5	17.1	7.41	201-360
01/06/2007	27.4	31	29.2	73.2	95.3	83.3	0.5	0	0.95	0.23	3.7	22.8	12.51	101-200
02/06/2007	26	29.5	27.2	88	99	94.2	3	0	0.41	0.08	2.9	12	7.33	101-200
03/06/2007	25.9	31.2	28.8	75.2	99	87.6	0.5	0	1.42	0.26	1.9	24.6	12.38	101-200
04/06/2007	26.7	31.9	29.4	72.7	99	86.2	4	0	1.41	0.28	3.2	20.6	10.26	101-200
05/06/2007	27.5	33.2	30.9	67	97.6	81.9	0.5	0	1.35	0.31	1.6	12.5	6.48	201-360
06/06/2007	28.9	33.1	30.9	69.4	97	81.3	0	0	1.41	0.33	1	15	7.28	201-360
07/06/2007	23.7	34.1	29.1	67	98.5	87.5	3	0	0.89	0.19	1.3	19.1	5.11	201-360
08/06/2007	26.6	32.5	29.6	66	99	85.9	0	0	1.52	0.36	2	16.8	7.11	201-360
09/06/2007	27.3	32	29.4	73.2	99	88.9	1.5	0	0.93	0.21	1.4	12.8	6.69	201-360
10/06/2007	26	30.2	28.3	83.5	99	92.5	12	0	0.56	0.15	2.3	14.7	5.22	201-360
11/06/2007	26.4	31.9	29	73.2	99	89.6	16.5	0	1.56	0.31	2.7	11.2	5.79	201-360
12/06/2007	25.5	31.2	29.1	78	99	87.9	20.5	0	1.07	0.26	0.1	13.5	7.66	201-360
13/06/2007	25.9	29.5	27.2	86.9	99	96.4	12	0.01	0.61	0.16	1.1	12.6	5.44	201-360



14/06/2007	25.8	29.8	27.5	85.7	99	95.9	1.5	0	0.86	0.23	0.1	14.4	6.77	101-200
15/06/2007	25.2	29.5	27.1	81.3	99	93.7	15.5	0	1.14	0.34	3.3	23.7	11.55	101-200
16/06/2007	24.5	29.2	26.3	84.2	99	95.4	8.5	0.03	1.03	0.20	0	18.1	8.4	101-200
17/06/2007	24	27.1	25.2	95.6	99	98.7	8	0.03	0.3	0.09	2.5	21.4	7.75	101-200
18/06/2007	24	28.5	26	85	99	95.2	14	0.03	0.38	0.13	4.4	16.9	9.10	201-360
19/06/2007	24.3	27.9	25.6	91.5	99	97.3	16.5	0.02	0.43	0.11	2.8	15.9	7.76	201-360
20/06/2007	24	28.6	25.5	81.6	99	94.9	10	0.01	1.08	0.17	2.5	19.6	7.2	201-360
21/06/2007	23.9	28.9	26.2	81.8	99	94.5	4	0.02	1.12	0.21	0.2	11.4	5.16	201-360
22/06/2007	25.4	29.8	27.1	85.6	99	94.6	6	0.02	1.14	0.31	0	15.9	5.38	1-100
11/07/2007	27.1	29.5	28.6	83.6	91.1	87.8	0	0	0.3	0.08	10.5	19.4	15.2	201-360
12/07/2007	26.7	29.5	27.9	85.6	94.7	90.9	2.5	0	0.83	0.14	8.8	20.3	14.9	201-360
13/07/2007	25.5	29.5	27.9	83.8	97.8	90.9	1.5	0	0.86	0.15	7.1	19.9	15.1	201-360
14/07/2007	25.3	29.4	28.1	82.9	96.2	90.4	1.5	0	0.56	0.11	6.8	20.3	16.1	201-360
15/07/2007	26.7	29	27.8	85.8	95	91.4	9	0	0.76	0.11	8.1	17.5	13.3	201-360
16/07/2007	27	29.1	28.1	85.5	96	90.4	1	0	0.65	0.14	8.4	21	15.6	201-360
17/07/2007	25.4	29.7	28.1	82	96.8	88.3	2	0	1.15	0.2	8.8	22.4	15	201-360
18/07/2007	27	29.8	28.3	80.9	92	87.3	0	0	0.89	0.19	3.7	18.1	11.3	201-360
19/07/2007	24.7	30	26.9	81	99	93.7	2.5	0	0.73	0.13	0	6.9	3.75	1-100
20/07/2007	24.5	29.2	26	80.4	99	94.6	4	0	0.74	0.15	0.9	12.7	5.73	1-100
21/07/2007	24	27.4	24.9	88	99	96	0.5	0	0.8	0.16	0	22	7	1-100
22/07/2007	23.4	28.1	25.2	84.8	99	95.2	8.5	0	0.93	0.15	1.8	15.2	5.9	101-200
23/07/2007	24	29.2	25.1	78	99	95.9	5.5	0	1.6	0.25	0.6	16.9	7.32	201-360
24/07/2007	23.7	28.5	25.9	81	99	92.7	2	0	1.1	0.23	2.9	22.7	9.95	101-200
25/07/2007	24.5	28.5	26.4	81.4	99	92.3	7.5	0	1.07	0.22	1.8	17.1	7.42	101-200
26/07/2007	23.7	26.4	25.3	93.1	99	97.9	1.5	0	0.69	0.13	0.5	8.1	3.7	1-100
27/07/2007	22.9	28.4	25.3	80.9	99	94.8	7	0	1.05	0.21	1	14.4	6.7	201-360
28/07/2007	23.5	27.3	24.9	93	99	97.9	13.5	0	0.2	0.04	1.1	9.9	4.67	1-100
29/07/2007	22.1	25.8	24.03	97.5	99	98.8	27.5	0	0.39	0.04	0	11	4.78	201-360
30/07/2007	22.5	24.9	23.5	95.3	99	98.7	10.5	0.01	0.45	0.12	1.2	7.7	3.85	201-360
31/07/2007	23.1	27.3	24.8	85	99	95.6	0.5	0	0.88	0.19	0.3	10.3	4.66	201-360
01/08/2007	23	26.4	24.4	92.6	99	98.1	10.5	0	0.43	0.07	0	18.3	5.48	1-100
02/08/2007	23	26.3	23.9	93.1	99	98.4	17	0	0.35	0.05	2.2	19	7.67	201-360
03/08/2007	23	25.5	24	98	99	98.9	72.6	0	0.15	0.03	0.5	16.3	7.23	201-360
04/08/2007	23.5	26.3	24.6	92	99	98.5	15	0.01	0.76	0.09	2.3	21.2	11.81	201-360
05/08/2007	23.5	27	25	94.3	99	98.1	20.5	0.6	0.47	0.12	8.5	17.3	13.69	201-360
06/08/2007	23.8	26.5	25.1	92.4	99	97.67	17	0.05	1.57	0.20	7.7	23.3	15.31	201-360
07/08/2007	23.3	27.8	25.8	87	99	94.79	4	0.06	0.63	0.19	9.4	24.5	17.41	201-360
08/08/2007	24.7	27.7	26.2	89	98.6	94.54	6	0	0.65	0.14	12.7	21.6	17.10	201-360
09/08/2007	25.7	28.4	26.8	88	97	92.7	1.5	0	0.69	0.16	10.2	20.3	15..15	201-360

10/08/2007	26	28.9	27.3	81.7	95.1	90.12	0.5	0	0.65	0.14	12.7	21.6	17.10	201-360
11/08/2007	26	28.5	27.3	84.7	95.2	90.7	0	0	0.77	0.19	4.5	21.4	12.07	201-360
12/08/2007	26.2	28.2	27.2	84	97.1	90.4	1	0	1	0.25	7.2	21.6	12.04	201-360
13/08/2007	25.5	29	27.5	80	95	87.9	0.5	0	0.79	0.23	5.2	17.5	10.6	201-360
14/08/2007	25.6	28.8	27.3	82.6	96	89.6	0.5	0	1.17	0.19	6.2	17.8	11.25	201-360
15/08/2007	24.8	28.9	27.3	79.9	99	89.3	3.5	0	0.72	0.2	1.1	17.9	9.62	201-360
16/08/2007	26.6	29.1	27.6	79.8	96	88.9	0	0	0.74	0.23	0	15.4	7.9	201-360
17/08/2007	25	29.4	27.2	80.9	99	91.2	0.5	0	0.63	0.19	0	17.4	6.53	201-360
18/08/2007	24.8	29.3	27.2	80	99	90.6	2.5	0	0.9	0.23	0	16.1	5.98	201-360
19/08/2007	23.8	28.9	25.9	80.6	99	94.2	6	0	0.91	0.22	0	15.3	5.78	201-360
20/08/2007	23	28.4	24.7	85	99	97.6	22	0	1.29	0.13	0.2	10.1	4.61	201-360
21/08/2007	23.5	28.9	26.1	82.3	99	93.7	1.5	0	0.76	0.18	0.7	17.8	6.05	201-360
22/08/2007	24.9	29.1	27.2	81.9	99	92	0.5	0	0.85	0.21	0.1	14.9	6.97	201-360
23/08/2007	23.5	27.2	25.2	90.2	99	97.8	14	0	0.78	0.12	0.9	13.5	5.34	201-360
24/08/2007	24.1	29.2	26.3	80.5	99	94.3	1	0	1.76	0.22	0	10.3	3.64	1-100
25/08/2007	24	28.1	25.9	85.6	99	94.9	4.5	0	1.32	0.22	0	14.4	4.75	201-360
26/08/2007	23.5	27.7	25.1	85.7	99	95.9	4.5	0	1.06	0.18	0	14.8	5.88	201-360
27/08/2007	23.2	28.7	25.1	81.7	99	94.9	4	0	0.73	0.2	1.3	10	4.57	1-100
28/08/2007	23.5	28	25.3	89.5	99	96.9	11	0	0.95	0.17	0	10.7	4.72	1-100
29/08/2007	24.5	29.3	25.9	83	99	96.8	9.5	0	1.21	0.14	0	10.8	4.47	201-360
30/08/2007	23.9	28.6	26.6	87.2	99	95.7	7	0	0.64	0.09	0.9	15.7	7.75	201-360
31/08/2007	23.5	25.5	24.3	98.3	99	98.9	25.5	0	0.16	0.04	0.4	12.8	6.88	201-360
01/09/2007	23	25.5	23.7	94.3	99	98.3	0	0	0.66	0.09	1.7	11.9	5.33	201-360
02/09/2007	22.6	26.5	24.1	94	99	98.4	0	0	0.79	0.09	1.1	9.4	5.46	101-200
03/09/2007	23.4	25	24.1	99	99	99	0	0	0.32	0.06	1.3	16.1	6.62	101-200
04/09/2007	24.2	28.5	26.6	86.3	99	94.9	0	0	1.64	0.29	2.7	13.9	8.76	201-360
05/09/2007	25.4	28.8	26.9	88	99	95.2	2.5	0	0.9	0.19	1.6	21.2	9.99	201-360
06/09/2007	25.9	28.9	27.1	85.2	99	93.7	1.5	0	1.76	0.28	5.2	15	9.64	201-360
07/09/2007	25	28.7	26.6	85.6	99	94.5	3.5	0	0.65	0.12	0	14.8	7.49	201-360
08/09/2007	24.5	29.5	26.9	80.9	99	92.1	0	0	0.94	0.25	0	11.6	4.22	201-360
09/09/2007	24.5	29.9	27.2	78.8	99	91.42	0	0	1.1	0.26	0.2	13.6	5.62	201-360
10/09/2007	25.4	30.3	26.8	78.1	99	93.4	0	0	1.04	0.23	0.2	13	4.95	201-360
11/09/2007	25.2	30.5	27.6	77.8	99	90.7	0	0	1.1	0.28	0	15.9	4.55	201-360
12/09/2007	25.1	31.7	27.7	73.3	99	90.1	0	0	1.77	0.31	0	15.6	4.78	201-360
13/09/2007	23.9	30	27	80.6	99	93.4	18	0	0.95	0.21	0	10	4	201-360
14/09/2007	24	29.9	26.2	80	99	94.3	3.5	0	1.33	0.27	0.4	13.8	5.11	201-360
15/09/2007	24	29.9	26.9	80.2	99	90.9	0.5	0	1.64	0.29	0	13.3	5.6	201-360
16/09/2007	25	30.3	27.6	76.8	99	90.7	1.5	0	1.7	0.34	0.5	15.3	6.01	201-360
17/09/2007	25.9	29.7	27.6	79.4	99	92.7	0.5	0	0.99	0.18	0.2	9.1	4.17	201-360

18/09/2007	22.8	25.4	23.9	95	99	98.3	6.5	0	0.19	0.03	0	14.3	5.3	201-360
19/09/2007	23.4	29	24.5	77.4	99	95.7	2	0	0.66	0.14	0	8.2	2.59	1-100
20/09/2007	23.4	28.8	25.3	78.7	99	92.5	0.5	0	0.97	0.29	1.1	9.9	3.72	1-100
21/09/2007	25.9	29.5	27.8	79.5	98	87.5	3.5	0	1.74	0.61	0.2	15.8	9.75	201-360
22/09/2007	25.9	30.2	27.7	78.5	98.1	89.9	3.5	0	1.76	0.28	2.4	12.7	8.08	201-360
23/09/2007	24.6	29.3	26.5	81	99	93.2	4.5	0	0.81	0.16	6.3	18.6	11.65	201-360
24/09/2007	24.9	29	26.6	84	99	95.2	6.5	0	1.72	0.19	5.5	16.9	11.5	201-360
25/09/2007	23.8	29.8	26.4	79	99	93.2	7.5	0	1.03	0.15	1.5	15.2	8.47	201-360
26/09/2007	24.4	30.1	27.7	72.4	99	86.3	0	0	1.2	0.23	0	12.5	7.22	201-360
27/09/2007	24.2	28	26.5	89	99	94	4.5	0	0.35	0.05	7.1	21.5	13.5	201-360
28/09/2007	23.9	29.1	25.8	84	99	96.6	19	0	0.91	0.14	1	8.9	4.66	201-360
29/09/2007	24	30.5	26.3	73.1	99	93.1	4.5	0	1.05	0.25	0	11	3.35	201-360
30/09/2007	24.7	29.1	26.7	82	99	93.4	0.5	0	0.95	0.19	0	19.2	6.57	201-360
01/10/2007	23.7	29.9	26.38	81.5	99	93.5	4	0	0.88	0.19	1.1	17	5.97	1-100
02/10/2007	23.5	29.4	26.53	81.2	99	91.9	0	0	0.85	0.20	0	15.3	5.27	201-360
03/10/2007	24.5	30.0	27.38	78.5	99	89.9	0	0	1.07	0.25	0.1	13.8	4.73	201-360
04/10/2007	23.8	27.4	25.90	86.0	99	96.2	2.5	0	0.48	0.06	0	9.3	3	1-100
05/10/2007	23.8	29.5	26.54	78.8	99	92.7	0.5	0	0.85	0.20	0	11.8	4.93	1-100
06/10/2007	24.8	29.3	26.49	79.9	99	93.3	0.5	0	0.92	0.18	0	9	3.79	1-100
07/10/2007	24.0	29.4	26.49	78.9	99	92.5	3.5	0	1.05	0.22	0.2	11.5	5.15	1-100
08/10/2007	22.5	28.7	25.74	80.1	99	93.1	33	0	0.71	0.18	0	16.4	4.25	201-360
09/10/2007	23.9	30.0	26.58	72.0	99	90.8	0	0	1.63	0.32	0	14.9	5.48	201-360
10/10/2007	25.0	31.1	27.52	76.5	99	88.8	0	0	1.3	0.28	0.4	10.5	4.63	1-100
11/10/2007	24.6	32.0	27.82	65.1	99	88.1	5.5	0	1.77	0.46	0.2	13.9	5.01	1-100
12/10/2007	24.9	32.4	28.17	67.4	99	90.1	0	0	1.77	0.46	0.8	13.4	4.98	201-360
13/10/2007	25.7	31.5	28.82	71.9	99	88.6	0	0	1.77	0.41	0	14.5	4.35	1-100
14/10/2007	25.2	32.4	28.58	71.5	99	89.2	0	0	1.77	0.42	0.2	10.8	4.2	1-100
15/10/2007	24.7	32.5	28.18	65.7	99	86.5	0	0	1.55	0.31	0.7	12.5	4.71	1-100
16/10/2007	24.5	32.2	27.65	63.4	99	87.83	0	0	1.17	0.26	0	11.9	4.09	1-100
17/10/2007	24.9	32.0	28.06	68.2	99	88.06	0	0	1.75	0.33	0	13.9	4.3	1-100
18/10/2007	25.6	30.6	27.92	75.7	99	88.11	0	0	1.02	0.24	0	15	5.65	1-100
19/10/2007	24.9	31.8	27.13	67.5	99	90.91	0	0	1.4	0.27	1	10.4	5.23	101-200
20/10/2007	24.0	28.4	25.7	80.1	99	93.15	1.5	0	0.85	0.18	0	11.9	5.23	1-100
21/10/2007	23.7	29.4	25.64	72.0	99	90.06	0.2	0	0.73	0.5	0.1	10.3	4.94	1-100
22/10/2007	23	33.1	26.1	55.5	99	88.1	4.5	0	1.76	0.36	0.4	11.7	4.95	1-100
23/10/2007	24	32.2	27.24	62	99	86.63	0	0	0.88	0.21	0.4	9.9	4.09	1-100
24/10/2007	24.9	33.2	28.41	49.1	97	80.67	0	0	1.5	0.21	0.1	10.4	4.6	1-100
25/10/2007	25.9	31.3	27.62	61.7	95	74.39	0	0	0.46	0.14	0.6	16.7	5.64	1-100
26/10/2007	25.4	34	29.15	55.1	94.9	75.01	0	0	1.59	0.30	0.6	17.8	8.23	1-100

27/10/2007	26.4	33.8	29.81	57	96.9	72.82	0	0	1.26	0.19	0.7	14.5	5.76	1-100
28/10/2007	25	32.3	28.14	64.1	99	86.05	0	0	1.64	0.31	0.6	14.6	5.96	101-200
29/10/2007	25.5	32.2	28.20	61.6	99	85.62	0	0	0.9	0.22	0	6.8	3.56	1-100
30/10/2007	26	31.5	28.05	53	99	82.35	0	0	1.12	0.22	1.2	23.5	9.27	101-200
31/10/2007	25.4	30.1	27.63	73.8	99	87.40	0	0	0.91	0.22	1.1	16	7.08	101-200
06/12/2007	25.4	31.8	28.8	48.9	80.5	59.1	0	0	0.7	0.26	0.2	22.6	9.5	1-100
07/12/2007	22	33.1	26.5	47	88.6	72.7	0	0	1.56	0.28	0	10.7	4.9	1-100
08/12/2007	22.2	32.9	26.5	43.6	99	75.8	0	0	1.51	0.27	1.7	11.7	5.2	1-100
09/12/2007	22.1	33.2	26.6	45.1	99	77.4	0	0	1.64	0.32	0.6	13.9	5.6	1-100
10/12/2007	22.3	33.2	26.4	47.9	99	80.1	0	0	1.59	0.32	0.8	13	5.1	1-100
11/12/2007	22	31.2	25.9	53.8	99	82.6	0	0	1.62	0.32	1.7	13.6	5.3	1-100
12/12/2007	21.6	32	25.8	47.2	99	80.4	0	0	1.5	0.29	2.4	16.1	6.55	1-100
13/12/2007	21.5	32.5	25.8	42.3	99	79.1	0	0	1.41	0.26	0.8	13	5.92	1-100
14/12/2007	21.5	32.9	26.3	38.4	99	75	0	0	1.45	0.29	0	15	5.37	1-100
15/12/2007	22.4	34.1	26.7	40.6	98.1	76.2	0	0	1.63	0.32	1.7	11.4	5.75	1-100
16/12/2007	23.3	33.7	27.4	38	96.2	70.6	0	0	1.66	0.34	0	13	6.29	1-100
17/12/2007	22.5	33.5	27.2	38.5	97	72.1	0	0	1.6	0.34	0	25.9	6.96	1-100
18/12/2007	22.4	33.6	27.6	36.6	96	64.1	0	0	1.66	0.34	0.6	20.9	6.69	1-100
19/12/2007	22.9	32.4	27.5	50.1	79.3	65.9	0	0	1.16	0.2	1.4	13.7	5.1	1-100
20/12/2007	26.1	30	27.8	58.9	91	70.3	0	0	0.83	0.17	0	18	9.52	1-100
21/12/2007	25.9	32.6	28.5	52.6	92	75.6	0	0	1.63	0.3	1	16.2	7.52	1-100
22/12/2007	23.6	34.8	28.1	46.8	99	78.8	0	0	1.62	0.31	0.2	15.6	4.97	1-100
23/12/2007	22.5	34.3	27.2	38	99	78.1	0	0	1.65	0.33	0.7	8.2	4.6	1-100
24/12/2007	20.5	34.8	26.6	28.2	99	71.8	0	0	1.75	0.33	1.1	13.8	5.65	1-100
25/12/2007	19.8	32.5	25.5	36	94	74.3	0	0	1.52	0.3	0.5	13.3	5.02	1-100
26/12/2007	19.3	32.1	25.1	44.8	99	78.7	0	0	1.59	0.27	1.5	12	4.99	1-100
27/12/2007	20.3	31.5	25.5	44.8	99	78.7	0	0	1.67	0.35	0	11.1	4.64	1-100
28/12/2007	21	29.9	25.4	59.7	99	85.2	0	0	1.57	0.31	0.1	11.5	4.06	201-360
29/12/2007	21.3	30.3	25.2	55.2	99	80.2	0	0	1.51	0.27	1	15	6.37	201-360
30/12/2007	20.6	31.3	25.5	57.6	98.2	79.6	0	0	1.53	0.31	0.6	12.6	4.44	1-100
31/12/2007	22	32.5	26.6	52	99	82	0	0	1.45	0.29	0	13.2	3.98	1-100
01/01/2008	22.4	33.1	26.42	46	99	80.9	0	0	1.58	0.32	0.8	16	5.54	1-100
02/01/2008	22.5	32.2	26.25	46.4	99	79.7	0	0	1.48	0.3	0	13.3	5.01	1-100
03/01/2008	21.4	31.4	25.78	52.7	99	79.38	0	0	1.53	0.3	0.2	15.2	5.11	1-100
04/01/2008	20.5	33.6	25.82	34	99	73.35	0	0	1.68	0.33	1.2	13.2	5.37	1-100
05/01/2008	20.8	33.5	26.24	40.6	93.3	72.77	0	0	1.69	0.34	1.7	15.5	7.42	1-100
06/01/2008	20	34	26	34	94.1	70.8	0	0	1.69	0.34	1.7	17.9	7.24	1-100
07/01/2008	20.9	33.5	26.02	34.3	96	69.12	0	0	1.69	0.33	1.8	16.7	7.8	1-100
08/01/2008	20.4	33	25.52	30	91.1	65.76	0	0	1.59	0.32	1.5	19.5	8.79	1-100

09/01/2008	19.9	32.6	25.4	38	97	74.8	0	0	1.6	0.33	0	13.9	5.01	1-100
10/01/2008	19.8	32.6	25.5	42	99	75.85	0	0	1.68	0.32	0.5	13.4	5.88	1-100
11/01/2008	20	33.4	25.65	36	99	72.88	0	0	1.58	0.32	0.8	13.4	4.85	1-100
12/01/2008	20.1	33	25.81	38.7	99	75.22	0	0	1.71	0.34	1	11.8	5.58	1-100
13/01/2008	20.3	33.2	25.87	37.7	99	75	0	0	1.67	0.32	0.9	14.2	5.19	1-100
14/01/2008	23.9	29.4	27.16	56.9	93.1	73.85	0	0	0.47	0.096	0	16.1	5.65	201-360
15/01/2008	19.8	29	24.29	59.4	99	81.2	0	0	1.56	0.33	0.5	14.6	6.51	201-360
16/01/2008	2.3	17	7.12	59.2	99	81.9	0	0	1.58	0.25	2.3	17	7.12	201-360
17/01/2008	19.4	28.3	23.97	58.3	99	81.37	0	0	1.68	0.344	1.2	14.7	6.41	1-100
18/01/2008	19.1	28.8	23.99	61	99	82.92	0	0	1.71	0.31	1.7	13.2	4.88	1-100
19/01/2008	20	27.3	23.42	60.9	99	81.54	0	0	1.64	0.15	2.3	14.4	6.38	201-360
20/01/2008	17.7	28.4	22.9	43	99	73.46	0	0	1.7	0.34	0	13.8	5.34	201-360
21/01/2008	18.3	27.2	22.59	60	99	77.87	0	0	0.99	0.22	0	14.8	6.39	201-360
22/01/2008	16.3	28	22.55	35.3	98.1	65.2	0	0	1.72	0.34	2.4	16.4	8.68	201-360
23/01/2008	16.7	27.8	22.4	32.8	74.8	52.95	0	0	1.74	0.32	1.4	16.4	7.88	201-360
24/01/2008	16.1	30.7	22.8	34	99	69.2	0	0	1.7	0.35	0	14.7	4.06	1-100
25/01/2008	18	28.1	23.1	52.7	98	78.6	0	0	1.65	0.32	0.4	15	5.67	1-100
26/01/2008	17.8	29.1	23.5	37.3	99	70.29	0	0	1.73	0.36	2.4	15.9	6.91	201-360
27/01/2008	17.4	27.4	22.12	54	98	76.07	0	0	1.67	0.21	1.7	15.8	6.5	1-100
01/02/2008	17	27.8	22.6	46.8	99	73.33	0	0	1.74	0.35	0	14.8	5.18	1-100
02/02/2008	17.4	27.6	23.2	53.7	99	77.6	0	0	1.7	0.37	1.5	14.7	5.88	1-100
03/02/2008	18.5	28.4	23.5	49.1	99	79.8	0	0	1.74	0.38	0.9	14.3	7.65	201-360
04/02/2008	20.7	27.6	23.8	56	94	75.1	0	0	1.24	0.27	3.3	14	8.41	201-360
05/02/2008	19.2	26.4	22.6	54	83.5	67.9	0	0	1.63	0.33	3.9	15.4	9.66	201-360
06/02/2008	17	26.3	21.9	39	95	62.9	0	0	1.02	0.19	2.8	15.7	7.43	201-360
07/02/2008	18.1	26.8	22.2	48	82	66.1	0	0	1.74	0.34	6.6	17.9	12.39	201-360
08/02/2008	17.6	24.5	20.8	52.9	82.4	69.6	0	0	1.74	0.38	3.5	15.1	11.13	201-360
09/02/2008	15.7	25.7	21.7	49	92.8	70.3	0	0	1.68	0.35	0.7	12.9	6.56	201-360
10/02/2008	17.4	26.5	22.4	49.8	98	76.3	0	0	1.7	0.37	0.4	15.8	5.57	1-100
11/02/2008	19.2	26.9	23.3	66.8	99	82.7	0	0	1.33	0.26	1.3	15.4	6.02	201-360
12/02/2008	20	28.4	24.2	63.2	99	82.3	0	0	1.24	0.29	0	17.1	5.55	1-100
13/02/2008	21.5	29.2	25.2	60.8	99	84.9	0	0	1.18	0.24	1.4	11.9	5.06	201-360
14/02/2008	22.5	30.8	26.4	61	99	81.7	0	0	1.6	0.36	0.4	16.9	6.46	201-360
15/02/2008	24.9	31.9	27.8	59	93	79	0	0	1.51	0.23	0.7	16.7	5.57	201-360
16/02/2008	24	33.9	28.2	45.3	99	75.4	0	0	1.75	0.33	0.5	17	6.57	1-100
17/02/2008	23.2	32.3	27.3	42.5	95	70.7	0	0	1.76	0.37	0.2	19.1	5.77	201-360
18/02/2008	21	31.1	26.1	48	99	75.3	0	0	1.76	0.38	0	13.3	5.09	1-100
19/02/2008	21	29	25.4	62.2	99	80.9	0	0	1.74	0.44	0	16.5	5.79	1-100
20/02/2008	19.9	31.1	23.3	32	98	83.5	0	0	1.61	0.32	0	9.8	3.84	1-100

28/02/2008	25.3	32.5	29.42	43.2	82.2	62.6	0	0	1.65	0.42	1.3	12.3	6.6	201-360
29/02/2008	21	34.3	26.8	33	96	71.9	0	0	1.76	0.46	0.4	14.4	6	1-100
01/03/2008	20.5	33.5	26.3	34.8	95	74.76	0	0	1.76	0.44	0.9	16.4	6.38	1-100
02/03/2008	20.9	29.9	25.6	60.7	98	82.38	0	0	1.7	0.429	0.6	16.2	5.74	1-100
03/03/2008	21.5	30	25.9	60.7	99	84.7	0	0	1.69	0.41	1.1	14.6	5.59	1-100
04/03/2008	21.7	30.5	26.04	55.4	99	84.4	0	0	1.67	0.43	0.4	16.2	5.72	201-360
05/03/2008	22.4	29.2	25.8	68.5	99	86.5	0	0	1.64	0.38	1.8	15	6.01	201-360
06/03/2008	22.5	31.7	26.6	59.2	99	85.3	0	0	1.72	0.43	0.3	13.7	5.05	201-360
07/03/2008	21.9	32.8	27.2	39	99	79.06	0	0	1.76	0.47	0.4	18.1	6.613	1-100
08/03/2008	21.7	34.8	27.4	29	99	70.87	0	0	1.76	0.45	0	18.5	6.32	1-100
09/03/2008	21	33.7	26.95	31.7	96	72.94	0	0	1.76	0.417	0	16.1	5.575	1-100
10/03/2008	22	32	26.4	53.5	99	82.03	0	0	0.89	0.23	1	17.2	6.07	1-100
11/03/2008	23.4	33.8	28.1	41	99	73.1	0	0	1.51	0.33	1.7	18.8	5.85	201-360
12/03/2008	23.7	32.5	27.9	46.7	92	78.5	0	0	1.71	0.433	0	17.1	6.51	201-360
13/03/2008	23.9	30.8	27.5	61.9	99	83.15	0	0	1.73	0.415	1	16.8	6.512	201-360
14/03/2008	24.4	30.3	27.8	63.4	97.8	81.4	0	0	1.01	0.245	1.3	17	6.3	201-360
15/03/2008	25.8	31.4	28.9	60.3	97	78.2	0	0	1.77	0.395	0.9	15.7	6.69	201-360
16/03/2008	21.6	31.7	28.25	69.5	99	84.33	0	0	1.73	0.37	1.2	16.9	7.36	201-360
17/03/2008	24.5	31.9	27.9	67.8	98	85	0	0	1.68	0.34	0.7	14.7	6.5	201-360
18/03/2008	25.9	32.1	28.9	65	99	85.6	0	0	1.6	0.35	1.1	17.8	6.6	201-360
19/03/2008	26.1	32.2	29.2	68.7	99	80.1	0	0	1.67	0.39	0.7	16.6	7.01	201-360
20/03/2008	26.7	32.5	29.3	59.7	88	73.5	0	0	1.77	0.39	2	15.2	6.3	201-360
21/03/2008	24	33	28.4	61	99	80.7	0	0	1.13	0.27	0.9	16.7	6.05	1-100
22/03/2008	23.9	31.1	25.4	65	99	93.4	0	0	1.41	0.17	1.5	12.5	5.75	1-100
23/03/2008	24.2	29.5	26.9	73.4	99	88.6	0	0	1.55	0.21	0.5	15.3	6.25	201-360
24/03/2008	23.8	29.9	26.5	75	99	91.6	0	0	0.97	0.22	2.4	21.2	8.29	1-100
25/03/2008	24.1	30.9	27.3	69.6	99	86.2	0	0	1.18	0.22	1.3	11.5	4.92	101-200
26/03/2008	24.5	30.3	27.7	68	99	83.5	0	0	1.22	0.29	0	14	5.17	201-360
27/03/2008	25.4	31.8	28.2	61.7	95.9	80.2	0	0	1.77	0.43	0	18.4	6.35	201-360
28/03/2008	24.5	31.5	28	62.6	99	81.9	0	0	1.77	0.4	0.4	17.8	6.59	201-360
29/03/2008	25.4	32	28.5	64	99	83.2	0	0	1.77	0.54	0	17.9	6.39	201-360
30/03/2008	24.9	32.4	28.5	63	99	81.1	0	0	1.77	0.46	0.9	18.3	7.24	201-360
31/03/2008	24.4	31.5	27.9	54.8	98	77.1	0	0	1.77	0.55	0	15.8	7.17	201-360

## ANNEXURE V

**Table 5: STATUS OF HAZARDOUS WASTE GENERATED DURING THE YEAR**

Sr. No.	Name and Address of the Unit	Products manufactured	Hazardous Waste (HW) generating Process as per Schedule 1	HW generating streams as per		HW generation in MTA as per		Total Quantity of H.W Generation in MTA (7)+(8)	Quantity of HW in MTA		
				Sch. 1	Sch. 2	Sch. 1	Sch. 2		Disposal in landfills	Recyclable	Incinerable
1	2	3	4	5	6	7	8	9	10		
1	M/s Star Formulation (P) Ltd. Pl.No-S-62 Verna Indl Est Verna Goa Phase-II/ B Goa-403722	Disinfectants and Antiseptics	Discarded containers/ barrels	33.3		290 Nos		290 Nos		290 Nos.	
2	Sesa Goa Ltd, MetCoke Oven plant,Navelim Sanquelim Goa	Metallurgical coke	Used/ Spent oil	5.1		0.36		0.36		0.36	
3	Hindustan Coca-Cola Beverages Pvt.Ltd. M2-M11,Phase-III B, Verna Indl Estate, Verna	Sweetened Carbonated drinks & carbonated water	Filter containing oil	3.3		24 Nos		24 Nos			24 nos.
			oily cotton waste	3.3		0.09		0.09			0.09
			Used/ Spent oil	5.1		0.777		0.777		0.777	
			Discarded containers/ barrels	33.3		24 nos		24 nos		24 Nos.	
4	Indi Pharma Pvt.Ltd. 2-9,Bethora Indl Estate,Bethora Ponda Goa	tablets, capsules & ointments	Date expired/ discarded product	28.3		0.017		0.017	0.017		
			Used/ Spent oil	5.1		0.019		0.019		0.019	
5	Marpol Pvt Ltd,Unit-II Plot No.ABC Kakoda Indl Estate Kakoda Curchorem Goa	Powder coating	Used/ Spent oil	5.1		0.027		0.027		0.027	
			Wastes & residue	21.1		6		6			6
6	Marpol Pvt Ltd,Unit-II Plot No.13 to 18 Kakoda Indl Estate Kakoda Curchorem Goa	Polyester resin/ powder coating	Used/ Spent oil	5.1		0.027		0.027		0.027	
			Wastes & residue	21.1		6		6			6
7	R.K.Trading Co. Near H.P Petrol pump Dhawali Ponda Goa	Silver metal is extracted from waste	Silver compounds		B 10		56.86	56.864		56.864	
8	M/s Wallace Pharmaceutical	Tablets-99.5	Used/ Spent oil	5.1		0.005		0.005		0.005	

	Pvt. Ltd, Nirancal Road Curti Ponda Goa	Liquid-226.8	Wastes/ residues containing oil	5.2		0.965		0.965			0.965
			Date expired/ discarded product	28.3		Nil		Nil			
			Discarded containers/ barrels	33.3		120 Nos.		120 Nos.		120 Nos.	
			Chemical sludge from ETP	34.3		0.048		0.048	0.048		
9	Geno Pharmaceutical Ltd Phamaceutical Complex Karaswada Mapusa Goa	Tablets, Capsules, Liquids, Ointments, Injectables	Used/ Spent oil	5.1		0.09		0.09		0.09	
			Residues and wastes	28.1		0.2		0.2	0.2		
			Spent Carbon	28.2		Nil		Nil			
			Date expired/ discarded product	28.3		0.6		0.6	0.6		
			Ion Exchange material	34.2		0.22		0.22			0.22
10	DCI Pharmaceuticals Pvt Ltd Vidyanagar Margao Goa		Used/ Spent oil	5.1		0.03		0.03		0.03	
			Date expired/ discarded product	28.3		0.007		0.007	0.007		
			Spent Org.solvents	28.5		0.056		0.056			0.056
11	V.M Salgaocar & Bro Pvt Ltd Velguem/Surla Mine Workshop	workshop attached to iron ore mine	Used/ Spent oil	5.1		6.04		6.04		6.04	
			cotton soaked with oil	5.2		0.98		0.98			0.98
			LDO sludge	3.3		1.7		1.7			1.7
12	Aparant Iron & Steel Pvt Ltd, Village Costi Kalay Sanguem South Goa	Coke fines, Iron ore fines	Used/ Spent oil	5.1		nil		nil			
13	Encube Ethicals Pvt Ltd, Plot No. C-1 Madkaim Indl Estate Ponda Goa	Production/ formulation of drugs/ pharmaceuticals	Date expired/ discarded product	28.3		0.127		0.127	0.127		
			Used/ Spent oil	5.1		0.043		0.043		0.043	
			Discarded containers	33.3		194 Nos.		194 Nos.		194 Nos.	
			ETP sludge	34.3		0.821		0.821	0.821		
14	Sesa Goa Limited-Codli Mine,P.O. Kirlpal-Dabal,Sanguem,Goa	Iron Ore	Used/ Spent oil	5.1		82.13		82.13		82.13	
15	Colorcon Asia Pvt. Ltd. Plot No. M14-M18,Verna Ind Estate, Salcete, Goa	OPADRY	Used/ Spent oil	5.1		0.135		0.135		0.135	



16	Chowgule Industries Ltd.D.B. Bandonkar Marg, Campal,Panaji, Goa		Used/ Spent oil	5.1		10.308		10.308		10.308	
17	Centaur Drug House Pvt. Ltd. Plot No. 39, 40, 41,Tivim Ind Estate, Karaswada,Goa	Tablet, Syrup, Capsules, Vials	Used/ Spent oil	5.1		0.027		0.027		0.027	
			Pharma residues & wastes	28.1		0.02		0.02			0.02
			Date expired/ discarded product	28.3		0.05		0.05	0.05		
18	Omni Impex Pvt.Ltd. Plot No-65,Pissurlem Ind Estate,Honda, Sattari,Goa		Used/ Spent oil	5.1		0.011		0.011		0.011	
19	Cosme Remedies Ltd,797,Alto-Betim,Bardez, Goa	Liquids, Tablets & Capsules	Used/ Spent oil	5.1		0.008		0.008		0.008	
			Pharma residues & wastes	28.1		Nil		Nil			
20	Pentair Water India Pvt. Ltd. L52-55,Verna Ind Estate,Salcete, Goa	FRP tanks, Codeline vessels, Composite Welmate	Used/ Spent oil	5.1		0.09		0.09		0.09	
			chemical containing residue	33.1		0.85		0.85			0.85
21	Kodak India Limited, L-16,Verna Industrial estate, Verna Salcete, Goa-403722	Cinematographic film in rolls, Photographic films in rolls, Medical X-ray, Cardiology film in rolls	Used/ Spent oil	5.1		1.4		1.4		1.4	
			Wastes & residue	21.1		0.072		0.072		0.072	
			Discarded containers/ barrels	33.3		90 nos		90 nos		90 nos	
			Silver Compounds		B 10		72	72		72	
22	MRF LTD, P.B. No. 1, Ponda,Goa	TYRES	Used/ Spent oil	5.1		83.58		83.58		83.58	
			Fly ash from incinerator	36.2		2.4		2.4	2.4		
23	Britacel Silicones Ltd.L-124,Verna Industrial Estate,Verna,Goa	Silicone fluids	Silicone oil Residues & silicone oil	27.1		0.005		0.005		0.005	
			Chemical sludge from ETP	34.3		0.01		0.01	0.01		
			Used/ Spent oil	5.1		0.01		0.01		0.01	
24	M/s Chowgule & Co.Ltd. Pale Iron Ore Mine,P.O.Pale, Ambegal,Pale-Goa 403105	Maintenance of heavy earthmoving machinery	Used/ Spent oil	5.1		6.55		6.55		6.55	
25	M/s Chowgule & Co.Ltd.Sirigao Iron Ore Mine,P.O. Assonora, Bicholim-Goa 403 503	Maintenance of heavy earthmoving machinery	Used/ Spent oil	5.1		3.99		3.99		3.99	

26	M/s Chowgule & Co.Ltd.Costi Iron Ore Mine,P.O.Kalay, Sanguem-Goa 403 704	Maintenance of heavy earthmoving machinery	Used/ Spent oil	5.1		8.74		8.74		8.74	
27	M/s Chowgule & Co.Ltd.Tudou Iron Ore Mine,P.O Bhati, Sanguem-Goa 403 704	Maintenance of heavy earthmoving machinery	Used/ Spent oil	5.1		nil		nil		Nil	
28	M/s Chowgule & Co.Ltd.Central Workshop,P.O. Khandepar,Par Usgao-Goa 403 406	Maintenance of heavy earthmoving machinery	Used/ Spent oil	5.1		1.7		1.7		1.7	
29	Britacel Silicones Ltd.L125/126, Verna Industrial Estate,Verna,Goa 403722	Silicone Emulsions, Silicone fluids,Silicone cationics, Other Emulsions	Silicone oil Residues & silicone oil	27.1		0.005		0.005		0.005	
			Chemical sludge from ETP	34.3		0.01		0.01	0.01		
			Used/ Spent oil	5.1		0.01		0.01		0.01	
30	M/sGlenmark Lbs Pvt Ltd. Plot No. L-82,83,Verna Ind Estate,Verna Goa	Tablets, Capsules	Used/ Spent oil	5.1		0.1		0.1		0.1	
			Date expired/ discarded product	28.3		0.003		0.003	0.003		
			Discarded containers	33.3		125 Nos		125 Nos		125 Nos.	
			Ion Exchange material	34.2		Nil		Nil			
			Sludge from ETP	34.3		0.05		0.05	0.05		
31	M/S Cipla Ltd plot no L-139-L-146, Verna Industrial Estate, Verna Goa	Injectibles	Used/ Spent oil	5.1		0.8		0.8		0.8	
			Residues & wastes	28.1		4.5		4.5	4.5		
			off specifications product	28.3		4		4	4		
			Date expired/ discarded product	28.4		0.439		0.439	0.439		
			Discarded containers	33.3		4 nos		4 nos		4 nos	
			Flue gas cleaning Residue	34.1		0.8		0.8	0.8		
			Chemical sludge from ETP	34.3		0.7		0.7	0.7		
32	M/S Cipla Ltd plot no S-103 to S-105, S-107 to S-112, L-147/1 to L-147/3, L-150, Verna	Injectibles	Used/ Spent oil	5.1		1.8		1.8		1.8	
			Residues & wastes	28.1		3.5		3.5	3.5		

	Industrial Estate, Verna Goa		off specifications product	28.3		3		3	3		
			Date expired/ discarded product	28.4		0.693		0.693	0.693		
			Discarded containers	33.3		9 nos.		9 nos.		9 nos.	
			Flue gas cleaning Residue	34.1		0.6		0.6	0.6		
			Chemical sludge from ETP	34.3		0.8		0.8	0.8		
33	Goa Carbon Limited St Jose De Areal, Salcete,Goa-403730	Calcined Petroleum Coke	Used/ Spent oil	5.1		0.09		0.09		0.09	
34	M/s Dempo Mining Co Pvt Ltd, Bicholim Mine Goa	Processed iron ore	Used/ Spent oil	5.1		40.05		40.05		40.05	
			Waste/ residue containing oil , Oil filters	5.2		8.105		8.105		8.105	
35	M/s V.S. Dempo & Co. Ltd., Kirlapale Mine Sanguem- Goa	Processed iron ore	Used/ Spent oil	5.1		1.06		1.06		1.06	
			Waste/ residue containing oil	5.2		0.08		0.08		0.08	
36	V.S. Dempo & Co. Pvt.Ltd., Surla Mine,Goa	Processed iron ore	Used/ Spent oil	5.1		7.86		7.86		7.86	
			Waste/ residue containing oil , Oil filters	5.2		0.003		0.003		0.003	
37	Merck Limited, plot no. 11 Marvasaddo Usgaon Ponda Goa 403407	injectables, Soft gel capsules, Guaizulene, Vit E Acetate bulk drug, Vit E Acetate Feed Premixes, Thiamine Disulfide, OxyneX ST	Used/ Spent oil	5.1		1.818		1.818		1.818	
			Distillation residue	20.3		nil		nil			
			Date expired/ discarded product	28.4		28.86		28.86	28.86		
			Discarded containers/ barrels	33.3		2.674		2.674		2.674	
			Chemical sludge from ETP	34.3		8		8	8		
			Organic oxygen compds		D6		nil	nil			
			Mixture of organic oxygen compds & Zinc compds		C14/D6		181.3	181.25		181.25	
			Inorganic acids		D2		40.36	40.36		40.36	
			Sulphides (sodium hydrogen sulphide)		C 13		35.65	35.65		35.65	
38	Zuari Industries Limited	Production of	Spent Catalyst	18.1		34.36		34.36		34.36	

	Jaikisaan Bhawan, Zuarinagar Goa 403726	nitrogenous & complex fertilisers	Sludge/ residue containing Arsenic	18.5		42		42	42		
			Used/ Spent oil	5.1		17.15		17.15		17.15	
			Furnace oil residue &sludge	3.1		38.061		38.061		38.061	
39	Procter & Gamble Hygiene & Health Care Ltd,Plot No.173,Kundaim Ponda	Whisper Sanitary Napkins, Vicks VapoRub	Used/ Spent oil	5.1		0.8		0.8		0.8	
40	Sunrise Zinc Ltd L-2 & 3, Cuncolim Indl Estate, Cuncolim Goa	Zn Electrolytic, Cu Electrolytic, Cu Ingots, Brass Ingots, Zn(GOB), Brass granules	sludge and filter containing zinc	6.1		1640.84		1640.844	1640.84		
41	Medispray Lab.Pvt.Ltd. 344/345 Kundaim Industrial Estate Kundaim Goa	Aerosols	Used/ Spent oil	5.1		0.05		0.05		0.05	
			Date expired/ discarded product	28.3		0.009		0.009	0.009		
			Sludge	33.2		0.01		0.01	0.01		
			Discarded containers/ barrels	33.3		1 no.		1 no.		1 No.	
42	Meditab Specialities Pvt Ltd. 352,Kundaim Indl Estate, Kundaim Goa	Tablets	Used/ Spent oil	5.1		0.071		0.071		0.071	
			Residues & wastes	28.1		0.085		0.085	0.085		
			Date expired/ discarded product	28.4		0.002		0.002	0.002		
			Sludge	33.2		0.007		0.007	0.007		
			Discarded containers/ barrels	33.3		0.3		0.3		0.3	
			Flue gas cleaning Residue	34.1		0.13		0.13	0.13		
43	Ciba Speciality Chemicals (India) Limited San Monica Works, Corlim Ilhas-Goa	Chemicals	Spent Solvents	20.2		531.2		531.2			531.2
			Distillation residue	20.3		139.7		139.7			139.7
			Residues of additives used in plastic manufacture like dyestuffs, stabilisers	22.1		172.3		172.3			172.3
			Sludge from disposal of barrels	33.2		4.55		4.55			4.55

			Discarded containers	33.3		15		15		15	
			Used/ Spent oil	5.1		1		1		1	
44	Unichem Laboratories Ltd,Plot Nos 17 & 18,Pilerne Indl Estate,Pilerne Bardez Goa 403511	Tablets & Capsules	Used/ Spent oil	5.1		0.166		0.166		0.166	
			Date expired/ discarded product	28.3		0.1004		0.1004	0.1004		
			Discarded containers	33.3		19 nos.		19 nos.		19 nos.	
			Ion Exchange material	34.2		nil		nil		Nil	
			ETP sludge	34.4		0.0473		0.0473	0.0473		
45	Blossom Pharmaceuticals, Plot No 21/22,Tivim Indl Estate, Karaswada Tivim,Bardez Goa	Cream & Ointments Ear Drops & Lotion	Residues & wastes	28.1		0.06		0.06	0.06		
			Date expired/ discarded product	28.3		Nil		Nil			
			Spent Org.solvents	28.5		Nil		Nil			
			chemical containing residue	33.1		0.01		0.01	0.01		
			Waste from disposal containers & barrels	33.2		0.04		0.04	0.04		
			Empty containers & bags	33.3		25 Nos. & 0.025 MT		25 Nos. & 0.025 MT		25 Nos. & 0.025 MT	
			Ion Exchange material	34.2		Nil		Nil			
46	Reliance Energy Ltd,Goa Power Station,Sancoale P.O Zuarinagar Marmugao Goa 403726	Electricity generation through combined cycle power plant	Used/ Spent oil	5.1		5.23		5.23		5.23	
47	Ranbaxy Laboratories Ltd B-2 Madkai Indl Estate Ponda Goa 403404	Tablets	Used/ Spent oil	5.1		0.25		0.25		0.25	
			Date expired/ discarded product	28.3		nil		nil			
			Chemical sludge from ETP	34.3		0.015		0.015	0.015		
48	Merit Pharmaceuticals Pvt. Ltd.250-A, Alto Porvorim Goa	Tablets & liquids	Date expired/ discarded product	28.3		0.014		0.014	0.014		
49	Aventis Pharma Ltd GDDIDC	Tablets	Used/ Spent oil	5.1		Nil		Nil			

	Plot No L-121 Phase III Verna Indl Estate Verna Goa		Processed sludge containing acids or other metals	26.1		Nil		Nil			
			Residues & wastes	28.1		2.48		2.48	0.52		1.96
			Date expired/ discarded product	28.3		0.04		0.04	0.04		
			Spent Org.solvents	28.5		0.049		0.049	0.011		0.038
			Discarded containers	33.3		438 Nos.		438 Nos.		438 Nos.	
			Deblistered Aluminium foil	33.3		2.76		2.76		2.76	
			Flue gas cleaning Residue	34.1		Nil		Nil			
			Toxic metal containimg residue from used ion exchange material	34.2		Nil		Nil			
			ETP Sludge	34.3		0.61		0.61	0.61		
50	Meta Copper & Alloys Ltd,Near Upasnagar Post Zuarinagar Goa 403726	Brass Sheet,Strips & foils	Used/spent oil	5.1		0.936		0.936		0.936	
			ETP slugde containing Copper & Zinc compounds		B 3 & C14		12.99	12.99		12.99	
			Flue gas dust & other particles	8.3		624		624		624	
51	Centaur Pharma Pvt. Ltd. Plot No.3, Tivim Indl Estate, Karaswada, Mapusa Goa	Tablets, Syrup, Capsules, Vials	Used/ Spent oil	5.1		0.116		0.116		0.116	
			Pharma residues & wastes	28.1		0.00036		0.00036			0.00036
			Date expired/ discarded product	28.3		0.00036		0.00036			0.00036
52	Blue Cross Laboratories Ltd, L-17, Verna Indl Estate, Verna Goa	Tablets, Ointments, Liquids	Used/ spent oil	5.1		0.045		0.045		0.045	
			Date expired/ discarded product	28.3		nil		nil			
			Chemical sludge from ETP	34.3		0.323		0.323	0.323		
53	Cadila Health care Ltd Plt No 203 to 213, Kundaim Indl Estate, Kundaim Goa	Agiolax, Tablets, Injections, Suppositories	Used/ spent oil	5.1		4.202		4.202		4.202	
			Date expired/ discarded product	28.3		1.122		1.122	1.122		

			Chemical sludge, oil & grease residues from ETP	34.4		3.5		3.5	3.5		
54	Kare Labs Pvt Ltd,L-40 Verna Indl Estate Goa	Tablets, Liquids, Ointments	Date expired/ discarded product	28.3		0.165		0.165	0.165		
			off specifica-tions product	28.2		0.0015		0.0015	0.0015		
			Used/ Spent oil	5.1		Nil		Nil			
			Ion Exchange material	34.2		Nil		Nil			
			ETP sludge	34.3		0.6		0.6	0.6		
			Sludge from wet scrubbers	36.1		0.65		0.65	0.65		
55	Hindustan Lever Ltd, Plot No.128-129 & 324-326,Kundaim Indl Estate,Kundaim Goa	Soaps, DFA /Residue/ Volatiles, Crude Glycerine, Soap noodles	Used/ Spent oil	5.1		8.1		8.1		8.1	
			Waste oil	5.2		2.61		2.61		2.61	
56	Abbott India Ltd, L-18,Verna Indl Estate,Salcete Goa		Used/ Spent oil	5.1		0.361		0.361		0.361	
			Date expired/ discarded product	28.3		0.326		0.326	0.326		
			Discarded containers/ barrels	33.3		26 Nos.		26 Nos.		26 Nos.	
			Ion Exchange material	34.2		Nil		Nil			
			ETP Sludge	34.3		0.6		0.6	0.6		
			Sludge from wet scrubbers	36.1		0.334		0.334	0.334		
57	Sesa Goa Ltd Sonshi Mines, Pissurlem, Sattari-Goa	Iron ore	Used/ spent oil	5.1		31.94		31.94		31.94	
58	M/s Saini Motors, Four rd junction, housing board, near children's park, Gogal, Margao	Ford	Used/ spent oil	5.1		0.945		0.945		0.945	
59	Caculo Motors Pvt. Ltd. Goa, Caculo Enclave, St.Inez Panaji-Goa	Ford	Used/ spent oil	5.1		0.216		0.216		0.216	

60	Caculo Cars Pvt. Ltd. Goa, Caculo Enclave, St.Inez Panaji-Goa	Honda	Used/ Spent oil	5.1		0.18		0.18		0.18	
61	M/s Millennium Auto Survey No. 49/3, Castel wado, Nagao, Salcete-Goa		Used/ Spent oil	5.1		4.8		4.8		4.8	
			Filters contaminated with oil	3.3		1026 Nos		1026 Nos		1026 Nos	
			Paint wastes & residues	21.1		Nil		Nil			
62	Standard Transformers Pvt. Ltd. Plot No. 95, GIDC Indl area, Canacona-goa		Used/ Spent oil	5.1		1.12		1.12		1.12	
			Waste/ residue containing oil	5.2		0.00046		0.00046		0.00046	
			Filters contaminated with oil	3.3		0.002		0.002		0.002	
63	M/s Western India Shipyard Ltd., P.B. No. 21, Mormugao harbour, Mormugao-Goa	Ship parts & repairs	Used/ Spent oil	5.1		30		30		30	
64	Crescent Fragrances P Ltd, SB-6,7,8, Cuncolim Indl Estate, Cuncolim-Goa	Rose oxide, Hydroxyl Citronellal, Resinoid Benzoin, Argeol	Used/ Spent oil	5.1		0.0045		0.0045		0.0045	
65	M/s Syngenta India Ltd, Santa Monica Works, Corlim, Ilhas-Goa	Pretilachlor, Propheno-phos	used/ Spent oil	5.1		0.99		0.99		0.99	
			Waste/ residue containing oil	5.2		2.64		2.64		2.64	
			Residue/ sludge containing phenol	19.1		Nil		Nil			
			Distillation residue	20.3		4.05		4.05			4.05
			Waste/ residue containing pesticide	29.1		3630		3630			3630
			Chemical sludge (ETP)	29.2		138.68		138.68	138.68		
			Date exp & off spec pesticide	29.3		43.25		43.25			43.25
			Chemical cont. residue from decontamination & disposal	33.1		3.85		3.85			3.85
			Discarded containers/ barrels	33.3		4198 Nos.		4198 Nos.		4198 Nos.	



			Filters having organic liquids	35.1		0.197		0.197			0.197
			Spent Carbon	35.3		0.01		0.01			0.01
			Sludge from wet scrubbers	36.1		Nil		Nil			
			Ash from incineration	36.2		18.45		18.45	18.45		
66	Arshleen Enterprises, Vancio wadda, Guirim Mapusa-Goa		Used/ Spent oil	5.1		0.95		0.95		0.95	
67	Menezes Chemicals P LTd, Nirancal rd, Curti Ponda-Goa	Carisoprodol, Chloroform, Hydrous benzoyl peroxide	Residues & wastes	28.1		5.5		5.5	5.5		
			Spent Carbon	28.2		11 nos		11 nos		11 nos	
68	M/s Rukmini print pack ovt. Ltd., plot No. 33 Pilerne Indl Estate, Pilerne-Goa	Aluminium foil, PVC film	Plastic wastes & residue	21.1		** 60 No. barrels & 100 No. cans		** 60 No. barrels & 100 No. cans			** 60 No. barrels & 100 No. cans
69	M/s Permalite batteries, S.No 19/2, Gaunchem bhat, Mercedes Ilhas Goa	Lead storage battery plate, Lead storage batteries	Lead dross/ waste	9.1		Nil		Nil			
70	M/s Goa Glass Fibre Ltd, Colvale Bardez Goa	Chopped strand mat, Roving Woven, Roving Chopped strands	Furnace oil sludge	3.1		17.16		17.16		17.16	
			Used/ spent oil	5.1		1.035		1.035		1.035	
			Ion Exchange material	34.2		Nil		Nil			
71	M/s Lupin Ltd, B-15 Phase I-A, Verna Indl Estate, Verna Goa	Tablets & Capsules	Waste/ residue containing oil	5.2		0.02		0.02		0.02	
			off specifications product	28.2		Nil		Nil			
			Date expired/ discarded product	28.3		Nil		Nil			
			Chemical sludge from ETP	34.3		0.028		0.028	0.028		
72	M/s Mahindra Holidays & Resorts (India) Pvt. Ltd., (Club Mahindra) Varca-Goa	Hotel Industry	Used/ spent oil	5.1		0.108		0.108		0.108	
73	M/s Glenmark Pharmaceuticals Ltd, S-7, Colvale Indl Estate Bardez	Tablets, Capsules, ointments	Used/ Spent oil	5.1		0.09		0.09		0.09	
			off specifications product	28.2		0.024		0.024	0.024		

	Goa		Date expired product	28.3		Nil		Nil			
			Chemical sludge from ETP	34.3		0.08		0.08	0.08		
74	M/s Cipla Ltd, M-61/62/63 Verna Indl Estate Salcete-Goa	Capsules, Dry powder, Lyophilized prdts	Used/ Spent oil	5.1		0.8		0.8		0.8	
			Residues & wastes	28.1		0.1		0.1	0.1		
			off specifica-tions product	28.3		0.27		0.27	0.27		
			Discarded containers/ barrels	33.3		4 nos		4 nos		4 nos	
			Flue gas cleaning Residue	34.1		0.15		0.15	0.15		
			ETP Sludge	34.3		0.4		0.4	0.4		
75	ACGL, (Bus body div) Bhuimpal, Sattari-Goa	Bus bodies & components	Sludge from bath containing residues	12.4		46.05		46.05			46.05
			ETP Sludge	34.3		83.52		83.52	83.52		
76	M/s Micro Labs Ltd, Plot no. S-155-159, Verna Indl Estate, Verna Goa	Tablets	Used/ spent oil	5.1		0.4		0.4		0.4	
			Wastes & residue	28.1		0.04		0.04	0.04		
			off specifica-tions product	28.3		0.02		0.02	0.02		
			Discarded containers/ barrels	33.3		20 Nos.		20 Nos.		20 Nos.	
			Flue gas cleaning Residue	34.1		0.02		0.02			0.02
77	M/s FDC Ltd., L-56/57, Verna Indl. Estate, Verna-Goa	Tablets	Used/ spent oil	5.1		0.6		0.6		0.6	
			Residues & wastes	28.1		0.3		0.3	0.3		
			Spent Carbon	28.2		0.04		0.04	0.04		
			ETP Sludge	34.3		0.6		0.6	0.6		
78	M/s Select holiday Resorts Pvt Ltd. (Heritage Village Club), Arrossim beach, Cansaulim-Goa	Hotel Industry	Used/ spent oil	5.1		0.315		0.315		0.315	
79	M/s Silver Springs Pleasure Resort Pvt. Ltd. (Radisson White Sands Resorts GOA), Plot No. 177/1,179/1 Pedda, Varca, Salcete Goa	Hotel Industry	Used/ spent oil	5.1		0.05		0.05		0.05	
			Chemical sludge from ETP	34.3		0.1		0.1	0.1		
80	M/s DPC Motors Pvt. Ltd., 38/13 OLD NH 17, Porvorim Bardez Goa	Servicing of vehicles	Used/ Spent oil	5.1		10		10		10	
			Filter containing oil	3.3		250 nos		250 nos		250 nos	
81	M/s Grand Organic Pvt. Ltd.,	Steramide organic	Used/ spent oil	5.1		0.05		0.05		0.05	

	D-2/26, Bicholim Indl Estate, Bicholim-Goa	surfaces active agents, Emulsifier Carbonate	Chemical sludge from ETP	34.3		0.2		0.2	0.2		
82	M/s Venus Ethoxyethers Pvt. Ltd., 109-111, Bicholim Indl Estate, Bicholim-Goa	Organic surface active agents, Emulsifier, Dispense Dye intermediate	Used/ Spent oil	5.1		0.05		0.05		0.05	
			Chemical sludge from ETP	34.3		0.2		0.2	0.2		
83	M/s Esteem Industries Pvt. Ltd., 76-76, Piossurllem Indl Estate, Pissurlem-Goa	NP Ethoxylates, Castoral ethoxylates & Poly Ethylene Glycol-20 MT/day	Used/ Spent oil	5.1		0.05		0.05		0.05	
			Chemical sludge from ETP	34.3		0.2		0.2	0.2		
84	Beiersdorf India Pvt. Ltd., Nirancal Road, Curti, Ponda-Goa	Leukoplast tape, Hansaplast dressing, Lion plaster,Plaster of paris	Cutting & Trimming of PVC Tapes	28.1		0.3		0.3		0.3	
			Date exp/ discarded control sample	28.3							
85	M/s Konkan Paraffin Pvt. Ltd.,P-62, Pissurlem Indl Estate, Pissurlem	Solvents (OCS A & B)	Used/ Spent oil	5.1		0.03		0.03		0.03	
			oil containing cargo residue	3.1		0.05		0.05		0.05	
86	M/s FDC Ltd., L-121-B, Verna Indl. Estate, Verna-Goa	Tablets	Used/ Spent oil	5.1		0.6		0.6		0.6	
			Residues & wastes	28.1		0.3		0.3	0.3		
			Spent carbon	28.2		0.04		0.04	0.04		
			Chemical sludge from ETP	34.3		1.2		1.2	1.2		
87	Fort Aguada Beach Resort, Indian Resort Hotels, Sinquerim, Bardez-Goa	Hotel Industry	Used/ Spent oil	5.1		0.36		0.36		0.36	
88	M/s Duraline India Pvt. Ltd., Plot No. L-24 & 25, Verna Electronic City, Verna Goa	H.D.P.E, Silicone, Master batch	Used/ Spent oil	5.1		1.48		1.48		1.48	
89	Asia Pacific Hotel, Taj Exotica, Calwaddo, Benaulim, Salcete-Goa	Hotel Industry	Used/ Spent oil	5.1		1.32		1.32		1.32	
90	Sesa Industries Ltd., Pig Iron Plant, Amona P.O. Marcela, Bicholim-Goa	Pig Iron	Used/ Spent oil	5.1		4.9		4.9		4.9	
91	M/s Zenith Computers Ltd., P-33/ 37, Sancoale Indl Estate, Zuarinagar-Goa	Computers, Micro-processors & Peripherals	Spent lubricating & system oil	5.1		0.018		0.018		0.018	
92	M/s Wyeth Ltd, Plot no. L-137,	Tablets	Used/ Spent oil	5.1		0.05		0.05		0.05	

	Phase III-A, Verna Indl Estate, Verna Salcete-Goa		Waste/ residue containing oil	5.2		0.2		0.2			0.2
			Pharma residues & wastes	28.1		3.503		3.503			3.503
			Spent Catalyst/ spent carbon	28.2		Nil		Nil			
			Date expired/ discarded product	28.3		Nil		Nil			
			Spent Org.solvents	28.5		0.27		0.27	0.27		
			Discarded containers/ barrels	33.3		0.4		0.4		0.4	
			Flue gas cleaning Residue	34.1		2.2		2.2	0.8		0.8
			Chemical sludge from ETP	34.3		Nil		Nil			
			Filters having organic liquids	35.1		10 Nos		10 Nos			10 Nos
93	M/s Nicomet Industries Ltd, Plot No. L-15, L-19 & L-20, Cuncolim Indl. Estate, Cuncolim-Goa	Cobalt, Nickel, Copper	Used/ Spent oil	5.1							
			Process residue	7.2					3600		
94	M/s Hindustan Petroleum Corpn Ltd., Vasco terminal, P.B no. 48, F.L Gomes Rd, Vasco da Gama		Cargo residue, sludge	3.1		100		100		100	
			Wash water			100		100		100	
95	Dempo Marketing Co. Ltd, Eicher Workshop, Guirim	Automobile service station	Used/ Spent oil	5.1		0.756		0.756		0.756	
96	Finolex Cables Ltd., Ponda	Jelly filled Telephone cables, Light duty electrical cables	Used/ Spent oil	5.1		4.54		4.54		4.54	
97	Finolex Cables Ltd., Plot No. L-123 A/L9A Verna Indl Estate, Verna-Goa	Jelly filled Telephone cables, Light duty electrical cables	Waste/ residue containing oil	5.2		nil		nil			
98	M/s Kemtec India Photographic Pvt. Ltd, Plot No. 2,3 Kundaim Indl Estate, Kundaim-Goa	Developer, Fixer, Bleac-Fix Bleach Stabilizer	Process waste sludge	26.1		0.105		0.105		0.105	
			Chemical sludge from waste water	26.2							

			Dust from air filtration system	26.3							
99	M/s Dempo Shipbuilding & Engineering Pvt. Ltd, Bainguinim, Old-Goa	Ship Repairs, Ship building, fabrication work	Used/ Spent oil	5.1		Nil		Nil		Nil	
100	M/s Shiv Samarth Motors (I) Pvt. Ltd, A/4, Kundaim Indl. Estate, Kundaim-Goa	Servicing of vehicles	Used/ Spent oil	5.1		Nil		Nil		2	
101	M/s Toyo Laboratories Pvt. Ltd, Jaan Appt, Main Road, Ponda	Pharmaceutical formulations	Date expired/ discarded product	28.3		nil		nil			
102	M/s Taparia Tools Ltd, Cuncolim Indl Estate, Cuncolim		Used/ Spent oil	5.1		0.098		0.098		0.098	
103	M/s Indian Oil Terminal Ltd, Vasco Terminal, P.O. Box 154, Vasco		oil containing cargo residue, washing water & sludge	33.3		Nil		Nil		11.01	
104	M/s Tata Consultancy Services, Tivim Indl Estate, Mapusa-Goa		Used/ Spent oil	5.1		Nil		Nil			
			Solder Dross		B-10		0.724	0.724		0.724	
			Discarded containers	33.3		115 Nos.		115 Nos.		115 Nos.	
105	M/s Glow Paints Pvt. Ltd, Plot No. 121, Bethora Indl Estate, Bethora, Ponda	Paints & Primers	Paint wastes & residues	21.1		0.08		0.08		0.08	1.8
106	M/s Glow Marine & Allied Products, Shed No. 4, Bethora, Ponda-Goa	Paints & Primers	Paint wastes & residues	21.1		0.05		0.05		0.05	2.88
107	M/s Godrej & Boyce Mfg. Co. Ltd, E-3, Madkai Indl Estate, Madkai		Used/ Spent oil	5.1		0.54		0.54		0.54	
			Metal surface treatment such as chrome plating	12.9		0.15		0.15	0.15		
108	M/s Ramacanta V.S. Velingkar, Shirval Culna, Darbandora village, Sanguem	Iron ore B.P	Used/ Spent oil	5.1		0.35		0.35		0.35	
109	M/s D-Link (India) Ltd, Verna-Goa	Solder powder	Used/ Spent oil	5.1		Nil		Nil			
			Solder Dross		B-10		1.05	1.05		1.05	
110	M/s Gangadhar Narsingdas Agrawal, Huldool Dongor Bimbol Iron Ore Iron	Iron ore	Spent lubricating & system oil	5.1		1.6		1.6		1.6	
111	M/s Motiff Labs Pvt. Ltd,		Used/ Spent oil	5.1		0.0045		0.0045		0.0045	

	Bethora Indl. Estate, Bethora		Date expired/ discarded product	28.3		0.006		0.006	0.006		
			Spent Org.solvents	28.5		0.0016		0.0016			0.0016
112	M/s Prince Multiplast Pvt. Ltd, L-10, Verna Indl Estate, Verna	Crates	Used/ Spent oil	5.1		0.2016		0.2016		0.2016	
113	M/s Turbocam India Pvt. Ltd, D2-9, Margao Indl Estate, Margao		Used/ Spent oil	5.1		0.2		0.2		0.2	
114	Sigma Laboratories Ltd., F-6,7,8, Tivim Indl. Estate, Tivim Mapusa goa	Tablets	Used/ Spent oil	5.1		Nil		Nil			
115	Adelphi Pharmaceuticals, F-6,7,8 Tivim Indl. Estate, Tivim, Mapusa Goa	Tablets	Used/ Spent oil	5.1		Nil		Nil			
116	M/s Pliva Research (India) Pvt. Ltd, Corlim	R & D lab	Spent Org.solvents	28.5		0.06		0.06	0.06		
117	M/s Elin Electronics Limited, Verna Indl Estate	Electronic components	Used/ spent oil	5.1		0.16		0.16		0.16	
			ETP sludge	34.3		0.01		0.01	0.01		
			Solder Dross		B-10		0.317	0.317		0.317	
			Tin Copper Wire		B-7		1.1	1.1		1.1	
118	M/s IPSHEM, ONGC, Betul		Used/ Spent oil	5.1		Nil		Nil			
119	M/s Alcon Cement Company Pvt. Ltd, Bicholim	Cement	Used/ Spent oil	5.1		0.16		0.16		0.16	
			cotton waste	5.2		0.08		0.08			0.08
120	M/s Goa Invescast Ltd, Plot No. 105-106, Kundaim Indl. Estate, Kundaim		Used/ Spent oil	5.1		0.216		0.216		0.216	
121	M/s Shaiv Distilleries Pvt. Ltd, Plot No. 101-104, Bicholim Indl. Estate, Bicholim		Ion Exchange material	34.2		0.075		0.075	0.075		
122	M/s Mandovi Pellets (Div of Chowgule & Co.Pvt. Ltd.), Near Borim Bridge, Shiroda	Iron ore pellets	Used/ Spent oil	5.1		3		3		3	
			Wastes/ residues containing oil	5.2		4.3		4.3		4.3	
123	M/s Diebold India Pvt Ltd, Plot No. 45/46/47, Tivim Indl Estate, Mapusa		Used/ Spent oil	5.1		Nil		Nil			
124	M/s Mohit Steel Industries Pvt Ltd, Plot No. 342, Kundaim Indl Estate, Kundaim	MS Ingots	Used/ Spent oil	5.1		0.02		0.02		0.02	

125	M/s Mandovi Castings Pvt Ltd, Plot No. 341, Kundaim Indl Estate, Kundaim	MS Ingots	Used/ Spent oil	5.1		0.04		0.04		0.04	
126	M/s Crompton Greaves, Bethora Indl Estate	Fans & accessories	Used/ Spent oil	5.1		1.2		1.2		1.2	
			Chemical sludge from ETP	34.3		0.2		0.2	0.2		
127	M/s Crompton Greaves, Kundaim Indl Estate	Fans & accessories	Used/ Spent oil	5.1		0.6		0.6		0.6	
			Waste & residue	21.1		0.1		0.1	0.1		
128	M/s Vernekar Batteries Pvt Ltd, Corlim, Ilhas-Goa	battery plates	lead dross	9.1		Nil		Nil			
129	M/s Zuari Indian Oiltanking, Oil terminal, NH-17B, P.O. Zuarinagar		Used/ Spent oil	5.1		Nil		Nil			
130	M/s Zaraf Cosmetics Pvt Ltd, Near Court, Mapusa		Used/ Spent oil	5.1		0.005		0.005		0.005	
131	M/s Rukminirama Steel Rollings Pvt Ltd, Cuncoim Indl Estate	CTD/ TNT bars, mis rolls, end cuttings	Used/ Spent oil	5.1		Nil		Nil			
132	M/s South West Port Ltd, Berth 5A & 6A, Mormugao		Used/ Spent oil	5.1		8.9		8.9		8.9	
133	M/s Anandeya Zinc Oxides Pvt Ltd, Sancoale Indl Estate		Zinc Dross			Nil		Nil			
134	M/s West Coast Ingots Pvt Ltd, Kundaim Indl Estate	MS Ingots	Used/ Spent oil	5.1		0.0002		0.0002		0.0002	
135	M/s Topline Writing Instruments Pvt Ltd, Verna	Carbon paper, lac boxes & ink	Used/ Spent oil	5.1		0.075		0.075		0.075	
			Waste oil	5.2		0.1		0.1		0.1	
			Waste ink	21.1		0.3		0.3			0.3
			Discarded barrels	33.3		100 nos.		100 nos.		100 nos.	
136	M/s Mc Dowell & Co. Ltd & United Breweries Ltd, Bethora	Beer, IMFL, Wine	Used/ Spent oil	5.1		0.4		0.4		0.4	
			Spent carbon	35.3		0.5		0.5	0.5		
137	M/s Vijai Marine Services, Loutolim	shipbuilding unit	Sludge & filters contaminated with oil	3.3		0.4		0.4			0.4
			Waste oil	5.2		0.45		0.45			0.45
138	M/s Shritihik Ispat Pvt Ltd, Sanguem Indl estate	Sponge Iron	Used/ Spent oil	5.1		0.18		0.18		0.18	
139	M/s Professional Oral Care Products Pvt Ltd, Kundaim Indl Estate	Dental cream	Date expired product	28.4		46.52		46.52			46.52

140	M/s Goa Bottling Co. Ltd, Arlem	Sweetened Carbonated drinks & carbonated water	Used/ Spent oil	5.1		0.03		0.03		0.03	
			ETP sludge	34.3		0.025		0.025	0.025		
141	M/s Galaxy Beach Resort, Utorda	Hotel Industry	Used/ Spent oil	5.1		0.015		0.015		0.015	
			ETP sludge	34.3		0.07		0.07	0.07		
142	M/s Sika India Pvt Ltd, Verna Indl Estate	Construction additives	Used/ Spent oil	5.1		0.054		0.054		0.054	
			Discarded barrels	33.3		100 nos.		100 nos.		100 nos.	
143	M/ Ratiopharm India Pvt Ltd, verna Indl Estate	Pharmaceutical formulations	Spent mother liquor	28.5		0.4		0.4			0.4
			ETP sludge	34.3		0.00005		0.00005	0.00005		
144	M/s Bharat Petroleum Co Ltd, Verna Indl Estate		Used/ Spent oil	5.1		0.27		0.27		0.27	
145	M/s Advanced Oral Care Products Pvt Ltd, Kundaim Indl Estate	Dental cream	Date expired product	28.4		56.5		56.5			56.5
146	M/s Karthik Inductions Ltd, Kundaim Indl Estate	MS Ingots	Used/ Spent oil	5.1		0.09		0.09		0.09	
147	M/s Duraline India Pvt. Ltd., Sancoale Indl Estate	H.D.P.E, Silicone, Master batch	Used/ Spent oil	5.1		Nil		Nil			
148	M/s Shree Mahalsa Power Rentals, Tuem Indl Estate		Used/ Spent oil	5.1		Nil		Nil			
149	M/s Power Engineering Ltd, Tuem Indl Estate		Used/ Spent oil	5.1		Nil		Nil			
150	M/s Madras Auto Service, Phoenix, Gogol, Margao		Used/ Spent oil	5.1		0.18		0.18		0.18	
151	M/s Averina International Resorts Pvt. Ltd, Mobor Cavelossim, Salcete-Goa	Hotel Industry	Used/ Spent oil	5.1		0.2		0.2		0.2	
152	M/s Amiantit Fibreglass Industries India Pvt Ltd, Bicholim		Used/ Spent oil	5.1		0.54		0.54		0.54	
			Discarded barrels	33.3		2251 nos.		2251 nos.		2251 nos.	

\*\*Total number of units registered under Hazardous Waste Act = 248 Nos.

## SUMMARY

- 1 **Total Recycleable Waste = 1784.829 MTA & 9600 Nos.**
- 2 **Total Landfillable Waste = 5605.119 MTA**
- 3 **Total Incinerable Waste = 4707.8913 MTA & 194 Nos.**



## Annexure VI

**Table 6: STATUS OF BIO-MEDICALWASTE GENERATED DURING THE YEAR 2006-2007**

Health Care Facilities (HCF) under Schedule VI of the Rules	Total no. of HCF	Total no. of Beds	No. of CBWTF/ Private agencies	No. of HCF which are utilising CBWTF	No. of HCF having treatment and disposal facilities	No. of HCF applied for Authorisation	No. of HCF granted Authorisation	Total no. of treatment equipment (excluding CBWTF)						Total Qty of BMW generated kg/day	Total Qty of BMW treated kg/day	No. of Health Care Facilities violated BMW Rules	Total no. of Show Cause Notices issued to defaulter HCF
								Incinerator		Autoclave	Microwave	Hydroclave	Shredder				
								With APCD	Without APCD								
A) Hospitals & Nursing homes in town with population of 30 lakhs and above <b>NIL</b>																	
B) Hospitals & Nursing homes in town with population below 30 lakhs:																	
a) with 500 beds and above	1	5211	NIL		1	182	182	2		135	135		138	1027.692	1027.69	NIL	NIL
b) with 200 beds but less than 500 beds	2																
c) with 50 beds but less than 200 beds	15																
d) with less than 50 beds	164																
C) All other institutions generating bio-medical waste not included in A) and B) <b>NIL</b>																	
<b>Total</b>	<b>182</b>	<b>5211</b>	<b>NIL</b>	<b>-</b>	<b>1</b>	<b>182</b>	<b>182</b>	<b>2</b>	<b>-</b>	<b>135</b>	<b>135</b>		<b>138</b>	<b>1027.692</b>	<b>1027.69</b>	<b>NIL</b>	<b>NIL</b>

## ANNEXURE VII

**Table 8-a: SYNOPSIS OF MAJOR CASES PENDING IN THE HIGH COURT OF BOMBAY AT GOA.**

Sr. No.	Case	Present Status.
1.	<b>i) Oscar Martins v/s Goa State Pollution Control Board and ors. (W.P.No.376/2006)</b>	A Public Interest Petition was filed in the High Court alleging that certain industries at the Cuncolim Industrial Estate were causing pollution of the area. The Board on confirming the same issued closure directions to all the said polluting units. However on the insistence of the Units, the Court appointed NEERI to inspect and recommend pollution control measures to be undertaken by the said units. The court then directed the Board to permit the units to operate subject to the implementation of the NEERI recommendations. On continuous monitoring by the Board, it has been observed that the units have complied with the NEERI recommendations. The Board has filed an Affidavit enclosing Inspection Reports of inspections carried out of all Industrial Units that are subject matter of this Petition. The said report indicates the compliance of all 12 units with the NEERI recommendations; as of date except the disposal of Hazardous Waste generated by the units into a common treatment and disposal site. The proposal for setting up a permanent landfill site by the State, for storage of hazardous waste is pending for clearance with the MoEF. The Board has been continuously monitoring the units at the Cuncolim Industrial Estate. Presently the units are storing the Slag as well as the Hazardous Waste generated by them in their premises in an environmentally secure manner, which has been confirmed and monitored by the Board.
	<b>ii) CCAF v/s State of Goa and ors. (PIL W.P. 1/07)</b>	A letter addressed to the Judges of the Court has been converted into a suo motu Writ Petition. The letter seeks the intervention of the court into the various aspects of alleged pollution at the Cuncolim Industrial Estate. The allegations made in the letter are similar to the grounds raised in (W.P. No. 376/2006) As the allegations made in the letter are similar to the grounds raised in (W.P. No 376 / 2006), both matters are being heard together.
	<b>iii) Ashish Dessai V/s State of Goa and ors. (W.P. No. 44/2007)</b>	This Petition has been filed on grounds similar to those raised in W.P. No. 376/2006; however 2 more units at the Cuncolim Industrial Estate have been added as parties. As the allegations made in the letter are similar to the grounds raised in (W.P. No 376 / 2006), both matters are being heard together.
2.	<b>Goa Foundation v/s State of Goa and ors. (Jain Udyog) (W.P. No. 85/2006)</b>	All 5 Sponge Iron Units that exist in the State are respondents in this Petition, which seeks closure of these units on grounds of pollution. The Board had initially ordered closure of the Units on account of environmental pollution caused by them. However on the units were allowed to reopen subject to compliance of various recommendations imposed on them by the Hon. High Court and the Board. The Board is continuously monitoring these units and their pollution control measures and will report the same to the court. All matters concerning these Sponge Iron Units, pending before the High Court have been tagged with this Petition. NEERI had been requested by the Board to conduct a study of all 5 Sponge Iron Units that exist in the State. The Report of this study has to be placed before the court, which will then hear arguments on the continuation of operation of these units.

3.	<b>Florian Lobo v/s State of Goa and ors. (PILW.P. No.3/2005)</b>	The High Court constituted a committee headed by the Director of Municipal Administration to identify Garbage Disposal/landfill sites, in each Municipality for disposal of Garbage generated in the respective Municipalities. The Govt. has filed an affidavit placing on record 12 sites that are to be acquired by the State to set up garbage disposal and landfill sites for the Municipalities in the State. The Board has granted authorization to all the 12 sites identified by the Govt. The court has directed the Govt. to go ahead with the land acquisition process for the same. The Directorate of Panchayats has filed an affidavit placing on record the Rural Garbage Scheme in which all 189 village Panchayats have to identify sites for disposal of garbage from their respective areas. The Govt. on getting clearance from the GSPCB will then acquire these individual sites. Presently all applications by the Panchayats for identifying sites for disposal of garbage, have been cleared/rejected as the case may be by the GSPCB. The Court has further directed GSPCB to prepare a scheme on recycling of waste in collaboration with the Department of Science and Technology, which is in progress.
3.	<b>V/S State of Goa and ors. (SMW.P.No. 1/2005)</b>	The Board is formulating a policy for Industrial Siting under the Spatial Environmental Programme 2005-2007, under the coordination and guidance of the CPCB. The Programme is being prepared by the Board under 3 heads namely the Environmental Atlas for the State of Goa, the Zoning Atlas for Siting of Industries and the Industrial Siting Guidelines for North and South Goa. The Draft Reports for all 3 have been finalized by the Board and copies of the same have been forwarded to the appropriate authorities in Delhi and CPCB for further action. The progress regarding the same is being reported to the Court.
4.	<b>The Concerned citizens of Vasco v/s The Chairman MPT and ors (SMPIL W.P. No.8/01)</b>	The Court has directed NEERI to monitor the Ambient Air quality in Vasco to ascertain whether air pollution from the port handling operations at berth no. 10 and 11 are violating standards set out for port areas and for residential areas of the port town. The Board has to assist NEERI in the carrying out of this study. The Report of the same has to be submitted to the Court by March 2008.

**Table 8-b: LIST AND STATUS OF COURT CASES, PERTAINING TO THE GSPCB. (2006-till date.)**

• **Matters pending before the Hon. Supreme Court of India at New Delhi. (2006-till date).**

<b>SR. NO.</b>	<b>CASE.</b>	<b>BOARD ADV.</b>	<b>SYNOPSIS AND DIRECTIONS</b>	<b>COMPLIANCE BY THE BOARD AND PRESENT STATUS.</b>
1.	Nicomet Industries V/s GSPCB and ors.	Adv. B.S. Gadnis	The unit of M/s Nicomet has approached the Hon. Supreme court by way of Civil Appeal No. 2160 of 2008, arising out of SLP (Civil) no. 23352 of 2007challenging the order of the High Court dated 23/11/200, wherein the unit was directed to be sealed.	<p>Vide Order dated 25/3/2008,the Hon. SC was pleased to modify the said Order of the HC, and thereby directed the Board to de seal the unit of M/s Nicomet on an undertaking submitted by the Unit that it will strictly comply with the HWM rules, with re to temporary storage of the HW in the 2 sheds in its premises and disposal of the same in the Permanent Captive landfill site at the Cuncolim Industrial Estate.</p> <p>The unit has now filed an application before the Hon SC seeking an extension of time to complete the work of construction of the Captive landfill site.</p>
2.	M/s Jain Udyog Ltd. V/s Goa Foundation and ors. (2 matters)	Adv. B.S. Gadnis	Petition filed challenging the order dated 6/5/2008, wherein the High Court had directed the unit to stop operation of the plant until further orders.	<p>Interim relief granted. Order of the High Court dated 6/5/2008, stayed until further orders.</p> <p>Copy of Petition has been served on the Board.</p>

• **Matters pending before the Hon. High Court of Bombay at Goa.(2006-till date).**

SR. NO.	CASE.	BOARD ADV.	SYNOPSIS AND DIRECTIONS	COMPLIANCE BY THE BOARD AND PRESENT STATUS.
1.	<p>Oscar martins V/s GSPCB and ors.</p> <p>(W.P. No. 376/2006)</p> <p>And connected matters/tagged along with W.P. no. 376/2006;</p> <ul style="list-style-type: none"> <li>• CCAF v/s State of Goa and ors. (W.P. no.1 /2007)</li> <li>• Nicomet Industries v/s State of Goa and ors.</li> <li>• Nicomet Industries v/s GSPCB and ors.</li> </ul>	Av. J. Godinho	<p>The Petition was filed with a prayer that Industrial Units at Cuncolim Industrial Estate be closed on account of environmental pollution caused by them.</p> <p>Vide Order dated 3/10/2007 all industrial Units except Nicomet Industries and Sunrise Zinc Ltd were discharged from the Petition as the Board reported that these units were complying with all necessary pollution control measures as recommended by NEERI.The Board is required to monitor the Industrial Units discharged by the Court from W.P. no. 20/2008 once every 2 months,, so as to ensure that the units comply with all requirements for pollution control .</p> <p>Vide order dated 23/11/2007, Hon. High Court directed the Board to</p> <ol style="list-style-type: none"> <li>(1) Seal the units of Nicomet Industries and Sunrise Zinc Ltd till such time as the units comply with the HWM Rules, including the setting up of a secured landfill site.</li> <li>(2) Issue Directions to the units to store the existing HW in a secured manner.</li> <li>(3) The Board was further directed to file an affidavit as to why Nicomet was granted exemption from providing an alkali scrubber and what steps they propose to take to decontaminate the</li> </ol>	<p># This exercise of monitoring the discharged units is being carried out by the Board and reports with re: to the same are being compiled.</p> <p># The Board has by Affidavit dated 2/2008, filed status of its compliance with the directions contained in the Order dated 23/11/2007.</p> <p># The unit of M/s Nicomet has approached the Hon. Supreme court by way of Civil Appeal No. 2160 of 2008, arising out of SLP (Civil) no. 23352 of 2007challenging the order of the High Court dated 23/11/2007.Vide Order dated 25/3/2008,the Hon.SC was pleased to modify the said Order of the HC, and thereby directed the Board to de seal the unit of M/s Nicomet on an undertaking submitted by the Unit that it will strictly comply with the HWM rules, with re to temporary storage of the HW in the 2 sheds in its premises and disposal of the same in the Permanent Captive landfill site at the Cuncolim Industrial Estate.</p>

			<p>surrounding areas of heavy metals and prevent reoccurrence of the same in the future.</p> <p>An affidavit listing out the compliance of the above has been filed by the Board.</p>	
2.	<p><i>[Jain Udyog]</i></p> <p><i>Goa Foundation v/s State of Goa and anr.</i></p> <p><i>(W.p. no. 85/2006)</i></p> <p>And connected matters/tagged along with W.P. no. 85/2006</p> <ul style="list-style-type: none"> <li><i>Pandurang Naik v/s State of Goa and anr.</i></li> </ul> <p><i>(W.P. No. 7/2005)</i></p> <ul style="list-style-type: none"> <li><i>Pandurang Naik v/s State of Goa and anr.</i></li> </ul> <p><i>(W.P. no.239/2008)</i></p> <ul style="list-style-type: none"> <li></li> </ul> <p><i>(W.P. no.563/2007)</i></p> <ul style="list-style-type: none"> <li><i>Goa Foundation v/s State of Goa and anr.</i></li> </ul>	Adv. A.N.S. Nadkarni	<p>Petitions were filed as Sponge iron Plant of Jain Udyog was alleged to be permitted to operate in violation of environmental norms and operation of the plant was resulting in causing environmental pollution in the vicinity.</p> <p>By Order dated 6/2/2008, the high Court directed the Board to hear all affected parties and pass a reasoned Order. Board did so and passed the said reasoned order wherein it was decided that the unit could operate for a period of 1 year under compliance of certain strict conditions</p> <p>MCA and subsequent Writ Petition were filed challenging the Boards order. Subsequently a contempt application was also filed by the Petitioner/Applicant against the Respondent Unit. On basis of the said contempt Application Hon High Court, by order dated 6/5/2008, was pleased to stay further operation of the Plant.</p>	<p>The Respondent Unit filed a Petition before the Hon. Supreme Court of India, challenging the order dated 6/5/2008, wherein the High Court had directed the unit to stop operation of the plant until further orders.</p> <p>Vide order dated 16/5/2008;the Hon. SC was pleased to grant Interim relief by virtue of which the Order of the High Court dated 6/5/2008 was stayed until further orders.</p> <p>As the SC is seized of the matter and has stayed the operation of the HC order dated 6/5/2008, the HC has fixed hearing on all Petitions in the last week of July.</p>

	(MCA no. 328/2008)			
3.	<p>Elsy da Costa V/s State of Goa and 11 ors.</p> <p>(W.P. no. 20/2008)</p>	Adv. A.N.S. Nadkarni	<p>The Petition was filed with regards to illegal operation of Quarries and Stone crushing units in San Jose de Areal and surrounding areas. Vide order dated 6/2/2008, the Board was directed to</p> <p>(1) Carry out inspections throughout the state to identify illegal quarries in operation and to grant lawfully permission to the same where permissible and close down the same where not permissible.</p> <p>The Board has also issued closure directions to all the crusher units and quarries operating without the consent of the board in San Jose de Areal and surrounding areas and show cause notices to the remaining units for causing pollution in the vicinity. The Board is now ensuring that the units comply with the provisions of Entry 37, Schedule I of the EP Act, 1986.</p> <p>The Board has vide affidavit dated 5/4/2008, informed the High Court about the steps taken by it to comply with the directions in order dated 6/2/2008.</p> <p>(2) Subsequently vide order dated 23/4/2008 the Board was directed to file an affidavit with regards to the criteria followed for permitting estb. of crusher and quarry units in the state and the criteria for permitting the units existing in the year 1986 to continue thereafter.</p>	<p>The Board has filed an affidavit with regard to criteria followed for permitting estb. of crusher and quarry units in the state as per the directions in order dated 23/4/2008.</p> <p>The HC has directed the Amicus Curiae in the matter to submit a Performa in a tabular form to the respondents, which is to be filled and submitted by them to the Court on the next date of hearing i.e. on 4/08/2008.</p>

			<p>Board has been specifically directed to state whether zoning laws are taken into account before grant of consents.</p> <p>(3) Applications for intervention in W.P. no. 20/2008, filed by various Crusher units have been dismissed by the Court on the ground that these units were not closed on account of any orders issued by the Court.</p>	
4.	<p>[Disposal of Garbage/MSW/Rural Garbage]</p> <p>V/s State of Goa and ors.</p> <p>(SM W.P. no. 2/2007)</p> <p>And all connected matters/tagged along with SMW.P.no. 2/2007, relating to Disposal of Garbage/MSW/Rural Garbage</p>	Adv.S.N. Joshi	<p>By virtue of the said Petition the Court is monitoring the implementation of the provisions of the MSW Rules, 2000 by the States Municipalities and the Rural Garbage Scheme by the States Village Panchayats.</p> <p>The Board has granted Authorizations for Garbage disposal sites/ setting up of Garbage treatment facilities to all the Municipalities and to 87 village Panchayats.</p> <p>Municipalities are yet to set up the facilities at the authorized sites</p> <p>The Board has prepared a draft scheme for recycling of recyclable waste.</p>	<p>Board has granted authorization for Garbage disposal sites/ setting up of Garbage treatment facilities to all the Municipalities</p> <p>The Board has granted Authorizations for Garbage disposal sites/ setting up of Garbage treatment facilities to 87 village Panchayats.</p> <p>Sites suggested by 62 no. of V.P.s have been rejected 40 no. of VPs are yet to identify sites.</p>
5.	<p>i) S.V.Kamat v/s CCP and ors. (W.P. no. )</p> <p>ii) V.P. Se Old Goa v/s CCP and ors. (W.P. no.)</p> <p>iii) Shankar Goltekar v/s State of Goa and ors. (W.P.no. 300/2008.)</p>	Adv.S.N. Joshi	<p>Petition has been filed challenging the acquisition of land at Bainguinim Old Goa, by the CCP, for purpose of a Garbage Disposal and treatment site/facility.</p>	<p>Boards affidavit in reply has been filed.</p>



6.	<p>Concerned citizens of Vasco v/s MPT and ors. (SMWP no. 8/2001)</p> <p>And connected matters/tagged along with SMW.P.no. 8/2001</p> <ul style="list-style-type: none"> <li>Kirloskar Ferrous v/s MPT and ors (W.P. no. 126/2008)</li> <li>Tata Metallica v/s Board of Trustees of MPT and ors. (W.P. No. 113/2008)</li> </ul>	Av. J. Godinho	<p>Petition has been filed on account of dust pollution being caused due to the manual handling of Coal at Berth nos. 10 and 11 by MPT. The High Court by Order dated 4/4/2007 has directed NEERI to conduct AAQ monitoring at Vasco to ascertain whether air pollution from Port handling operations at Berth nos. 10 and 11 are violating the environmental standards for residential areas of the Town and the Port areas.</p> <p>Vide order dated                      the High Court has extended the time granted to NEERI to submit its Report.</p> <p>Vide Order dated 5/5/2008, passed in W.P. No. 113/2008 the High Court has permitted the MPT to handle coal at Berth nos. 10 and 11 in accordance with the Secretary Shipping's order dated 15<sup>th</sup> December 2005.</p>	NEERI report has been received by the Court and is to be served on the Board.
7.	Amona Bachao Abhiyan v/s State of Goa and ors. (W.P. no                      )	Adv. A.N.S. Nadkarni	<p>Petition has been filed on account of Environmental pollution being caused by the operation of a pig Iron Plant, by Sesa Goa Ltd. At Amona Goa.</p> <p>The Board has filed a detailed affidavit in response to the Petition. Court has directed the parties to draw up minutes of order with regard to the appointment of an agency to look into the aspects of pollution caused by the operation of the plant in the state.</p> <p>The Court has now directed NEERIO to conduct a detailed EIA study in Amona village and surrounding areas to determine the effect of</p>	The Report of NEERI is awaited.

			graphite pollution caused due to operation of the plant.	
8.	Villagers of Shirigao v/s Shirigao Nagrik Sangathan (PIL W.P. no. 1/2008)	Adv. A.N.S. Nadkarni	<p>The Petition was filed on account of environmental pollution being caused by the operation of 3 mines in Shirigao village. The Board issued Closure directions to 1 mine for operating without the consent of the Board and show cause notices to the other 2 mines for causing environmental pollution in the area. Subsequently on direction of the high Court the Board heard all 3 mines in respect of the said notices and decided to issue consent to 1 mine and discharge the show cause notices issued to the other 2 mines on compliance of certain conditions. This decision has been communicated to the Court. and consent orders have been issued. On the last date of hearing the all parties to the Petition specifically the State Government and the Petitioners have drawn up consent terms and the court has passed an order according to the said consent terms wherein NEERI has been appointed to conduct a detailed study on pollution caused in the area by the operation of the 3 mines.</p>	The Report of NEERI is awaited.
9.	G.N.Agarwal v/s Chief Officer CMC and ors. (W.P. no. 54/2007)	Adv.S.N. Joshi	<p>Petition has been filed by the Petitioner Jetty seeking direction of the Court to the Board, to consider the Application for Consent to Operate, submitted by him. The Board had informed the Court that the unit would have to carry out certain pollution control measures at the Jetty and that AAQ monitoring would have to be carried out by the Board prior to granting of Consent.</p> <p>On carrying out the monitoring, on hearing all</p>	Matter disposed off.

			<p>the parties to the petition and on carrying out an inspection of the jetty, the Board decided to reject the Application for Consent.</p> <p>However subsequently as the petitioner requested that he be heard on the issue of inspection carried out by the Board, the Board submitted that it would hear all parties afresh and decide the issue finally. This has been communicated to the High Court.</p> <p>The Board then conducted a hearing of all parties, on all issues on 30/4/2008 at the 87<sup>th</sup> Board Meeting. On Hearing the parties it was decided that the Members would conduct an inspection of the site and place the same before the Board for arriving at a decision.</p> <p>At the 88<sup>th</sup> meeting of the Board it was decided to grant a conditional Consent to the Petitioner. Order on the same has been communicated to all the parties.</p> <p>The Petitioner has withdrawn the petition in light of the Boards decision above.</p>	
10.	[Siting guidelines] V/s State of Goa and anr. (SMW.P. No. 1/2005)	Adv. A.N.S. Nadkarni with Av. J. Godinho	<p>The Environmental Atlas for the State of Goa, the Zoning Atlas for the State of Goa and the Siting Guidelines for Industries in the State of Goa, that have been prepared under the Spatial Planning programme has been approved by the Board and the same have been forwarded to the State Govt. for necessary action. This has also been communicated to the High Court by way of an affidavit filed on 7/4/2008.</p> <p>The State Government has sought time to act on the documents forwarded by the Board.</p>	

11.	John Fernandes v/s Babu Sitaram Naik and ors. (PIL W.P.no. 10/2007)	Adv. A.N.S. Nadkarni	<p>Petition was filled on account of environmental pollution being caused by operation of a Stone crusher in the vicinity of the petitioner's residence. The Board ordered closure of the crushing unit as inspection indicated that operation of the unit was causing environmental pollution in the area.</p> <p>Matter was disposed off by the Court vide orders dated 23/10/2007 and 7/11/2007, in light of the undertaking submitted by the unit that it would shift the location of the crushing unit to a new area within the existing plot away from the petitioner's residence, and apply to the Board for Consent.</p> <p>The petitioner has now filed 2 Miscellaneous Civil applications for Review of Order dated 7/11/2007 and for Condonation of Delay, which have been allowed. Matter is fixed for arguments on the application of respondent no. 1 for shifting of the unit.</p>	# Board has subsequently issued the unit Consent to establish at a new location. Unit is yet to apply for Consent to Operate.
11.	Liesel vas Falcao v/s Director of Mines Safety and 3 ors. (PIL W.P. no. 8/2008)	Adv. A.N.S. Nadkarni	Petition has been filed on account of illegal quarrying being carried out in Solva, Raia, Goa. The Board has issued a Show Cause Notice to the quarry owner as the unit is operating without the consent of the Board.	Matter fixed in July for steps to be taken by the Board on the Show Cause notice issued.
12	<p>[Saleli crushers]</p> <p>Nanda Gaonkar v/s State of Goa and ors.</p> <p>(W.P. no. 476/2007)</p> <p>[Saleli crushers]</p>	Adv. A.N.S. Nadkarni	Petition has been admitted and is to come up for final hearing. Report of monitoring carried out by the Board has been filed before the Court.	Matter to come up for Final Hearing.

13.	[Hiralal Kohdidas] Rama Velip and anr. V/s State of Goa and anr. (W.P. no. 136/2008)	Adv. A.N.S. Nadkarni	<p>Petition filed as the Respondent Mine is operating in forest area. Board has issued the Mining Co. A Show Cause notice with re: to the same.</p> <p>Petitioners prayer for staying the operation of mining operations of the respondent has been rejected by the Court vide order dated</p>	<p>Board to decide on the Show Cause notice issued to the mining Company.</p> <p>Matter admitted to come up for Final_Hearing.</p>
14.	Thomas Braganza v/s Ignatius Braganza (Appeal from Order no. 11/2008 in CA no. 26/2008)	Av. J. Godinho	Matter yet to come up for Hearing. Copy of annexures to Appeal, not served.	
15.	Venkat Rao Infra Projects v/s GCZMA and ors.  (W.P. no.270/2008)	Av. J. Godinho		Matter admitted to come up for Final Hearing.

## ANNEXURE VIII

**Table 7: LIST OF MINING COMPANIES WHEREIN ENVIRONMENTAL PUBLIC HEARING PROCESS COMPLETED**

Sr No	Name of mining lease	Name of operator	Village	Area in hectares	Survey No.	date of NOC	project cost in lacs	Env. CI date	T.C. No	Date of public hearing
1	Monte Udo iron & manganese ore mine of M/s Chowgule & Co. Ltd. T.C. No. 93/52	M/s Chowgule & Co. Chowgule House Mormugao Harbour Goa	Rivona/ Sanguem	74.005	88,92,95, 109 to 113 & 136	08/04/06	31,59,502		93/52	05/07/06
2	Khuntie Moll iron & manganese ore mine T.C. No. 57/53	M/s Chowgule & Co. Chowgule House Mormugao Harbour Goa	Sulcorna/ Quepem & Curpem & Vichundrem in Sanguem	99.33	11, 14 to 17 of Sulcorna, 2 of Curpem and 51 of Vichundrem	08/04/06	43,46,042		57/53	05/07/06
3	Cavrem iron & manganese ore mine T.C. No. 14/51	M/s Chowgule & Co. Chowgule House Mormugao Harbour Goa	Colomba/ Sanguem	99.82	72, 73, 77 to 89, 92 to 96, 101, 102 & 121	08/04/06	19,28,542		14/51	05/07/06
4	Vansvola Tembo ou ximevoril dongor Vichundrem iron ore mine	Atchut V.S. Velingkar Veling Post Mardol Goa	Netorlim/Vichundrem/Sanguem	42.97	Part of 93, 96, 97, 98 of Netorlim and Part of 5, 35, 36 of Vichundrem	08/04/06	13,92,395		67/52	05/07/06
5	Molitembo Naquerim Rivona iron & manganese ore mine	Molia tembo Naquerim iron & manganese ore mine of Mrs. Lidia Belinda Simoes T.C. no. 42/50	Rivona/Sanguem	50.8	159, 165, 166,169	27/09/06	50 lakhs		42/50	19/07/06
6	Ghatti Mordi-Salginim iron ore mine	Ghatti Mordi-Salginim magniferrous ore mine of M/s A. H. Jaffar & Sons	Verlem Salgini	45.295	survey no 34/1(P), 3(P) & 4(P), Salgnim village	27/09/06	5 lakhs			19/07/06

7	Careamol iron ore mine of Shri. Jaisinh Maganlal	Atchut V.S. Velingkar Veling Post Mardol Goa	Pirla/ Quepem	98.76	/ 13, 14 and Part of 7, 8, 9, 11, 12, 15 to 18 & 23				80/59	06/09/06
8	Macodiatolem E Mamatembo iron ore mine Sociedade Sri. Mahalaximi Compania Mineira Limitada	Atchut V.S. Velingkar Veling Post Mardol Goa	Netorlim/Sanguem	72.72	/Part of 69, 74 to 78				27/50	06/09/06
9	Bencremdado & Cadiabandavoril Dongor iron & manganese ore mine of Shri. Crishna Mukunda Camotim	Atchut V.S. Velingkar Veling Post Mardol Goa	Vichundrem, Netorlim & Mangal /Sanguem & Quepem/	58.64	part of 42 in Vichundrem, part of 12 in Mangal and Part of 69 in Netorlim				6./53	26/10/06
10	Marga Fondcul or Chicolmolo mine of M/s Compania Mineira Progresso Ltda	Atchut V.S. Velingkar Veling Post Mardol Goa	Vichundren & Curpem/ Sanguem		/Part of 51, 52 & 53 of Vichundrem & Part of 2, 52 & 55 of Curpem				<b>6./63</b>	26/10/06
12	Canvorizoritembo Motatembo Bandoli Dongor mine of Shri. Bhanudas B.S. Cossombo	Atchut V.S. Velingkar Veling Post Mardol Goa	Curpem & Vichundrem/ Sanguem		/46 to 50 & 53, Part of 51,52 & 54 of Curpem And 18/1 & part of 17/1, 53 of Vichundrem				9./51	26/10/06
13	Govya Moll iron & manganese ore mine	M/s K.N. Sharieff	Sulcora/Quepem	54.41	/ 11, 43, 44 & 47				2/Fe.Mn/74	26/10/06
14	Caneli Dongor mine T.C. 60/51	Shri. Miguel Mascarenhas	Vichundrem/Sanguem	82.6	parts of 43,45 to 48, 50 & 51				60/51	01/12/06
15	Kutia Tembo iron ore mine of S. Kantilal & Co. Pvt. Ltd. T.C. No.49/56	A. Salgaoncar, Salgaoncar Cvhambers p.B. No. 35, Margao Goa	Bati / Sanguem	98.7	27,28,60,61 & 62		52 lac		49/56	01/12/06

16	Gonsumordi iron ore mine T.C. No. 30/56 of S. Kantilal & Co. Pvt. Ltd. at Bati Village in Sanguem taluka	A. Salgaoncar, Salgaoncar Cvhambers p.B. No. 35, Margao Goa	Bati / Sanguem	100	60, 67,68,69,72,73 &75		51 lac		30/56	01/12/06
17	Toliavoili Zambod iron ore mine T.C. No. 17/52 of S. Kantilal & Co. Pvt. Ltd.	A. Salgaoncar, Salgaoncar Cvhambers p.B. No. 35, Margao Goa	Bati,Villeina / Sanguem	94.9	1,34 to 38		49 lac		17/52	01/12/06
18	Bamnaudcacode e Outros iron ore mine T.C. No. 36/56 of S. Kantilal & Co. Pvt. Ltd.	A. Salgaoncar, Salgaoncar Cvhambers p.B. No. 35, Margao Goa	Bati , Cumbari/Sanguem	97.94	17 & 53		48 lac		36/56	01/12/06
19	Kairad e Tolaoli iron ore mine T.C. No. 18/52 of S. Kantilal & Co. Pvt. Ltd.	A. Salgaoncar, Salgaoncar Cvhambers p.B. No. 35, Margao Goa	Naiquinim, villiena,Bati / Sanguem	46.89	22,23,24,26,28 of Naiquinim, 81 of Bati & 27,28 & 29 of Villiena		35 lac		18/52	01/12/06
20	Villipiares iron ore mine T.C. No. 29A/56 of S. Kantilal & Co. Pvt. Ltd.	A. Salgaoncar, Salgaoncar Cvhambers p.B. No. 35, Margao Goa	Bati / Sanguem	98.15	27, 53, 54, & 55		48 lac		29A/56	07/12/06
21	Paicatembo e adj iron ore mine T.C. No. 49/58 of S. Kantilal & Co. Pvt. Ltd.	A. Salgaoncar, Salgaoncar Cvhambers p.B. No. 35, Margao Goa	Bati / Sanguem	83.218	1, 2, 4, 5, 60, 63,64, 66,70,71,72 & 74				49/58	07/12/06
22	Madatembo iron ore mine T.C. No. 20/60 of S. Kantilal & Co. Pvt. Ltd.	A. Salgaoncar, Salgaoncar Cvhambers p.B. No. 35, Margao Goa	Bati / Sanguem	99.1452	5,23,25-29		50 lac		20/60	07/12/06
23	Zamsodo iron ore mine T.C. No. 61/52 of S. Kantilal & Co. Pvt. Ltd.	A. Salgaoncar, Salgaoncar Chambers P.B. No. 35, Margao Goa	Cumbari/ Sanguem	50.82	16		40		61/52	12/12/06



24	Gotifonda Tembo Colomba iron ore mine	Shri. Vaicunt Cadnekar	Colomba/Sanguem	88.15	88/1, 88/2 part of 138,139,140,141, 87/1, 89,		40. lac		75/52	12/12/06
25	Carpadegga (Codli) iron ore mine	Xec Mustafa Cadar	Codli/Sanguem	40.29	30 to 34		31 lac		25/56	12/12/06
26	Tembeachem Dongor iron ore mine	Jairam B. Neugui	Maina, canvorem, Rivona in Quepem & Sanguem	99.37	7,66 & 77of Maina, 34, 35, 36 of Cavorem and 168/1 & 168/3 of Rivona		20 lac		51/51	12/12/06
27	Marsodo iron ore mine, of M/s Damodar Mangalji & Co. Ltd.	M/s Damodar Mangalji & Co. Ltd.	Surla & Cotambi/ Bicholim/	78.274	295(P) 388 to 393, 395 to 403, 407, 409, 410, 412 & 419 of Surla and 34 & 40 of Cotambi				33/53	17/03/07
28	Ambavali Bhard iron ore mine	M/s Damodar Mangalji & Co. Ltd.	Surla/ Bicholim	29.14	/Part of 388, 385, 378, 377, 376, 45 & 41				1./55	17/03/07
29	Sarvona iron & manganese ore mine at Sarvona village in Bicholim Taluka, Norh Goa District	M/s Zantye & Co. Pvt. Ltd.	Sarvona/Bicholim	72	/42, 54, 56, 58, 60, 61 & 99				28/53	24/03/07
30	Poicul Compro iron ore mine of Mineira Nacional Ltda	A. Salgaoncar, Salgaoncar Cvhambers p.B. No. 35, Margao Goa	Melauli/ Satari/	70.6327	33, 34, 39, 41, 42,45,48, 49 & 50		50 lac		49/51	public hearing cancelled
31	Cosmoichem Mola iron & manganese ore mine T.C. no. 29/51 at Sulcorna village Quepem Taluka of	Mr. Prashant Naique legal heir of Damu Naique G-28, Phoenix Estate, Gogol Margao Goa	Sulcorna/ Quepem	24.25	/44, 46, and Part of 11 & 51				29/51	24/01/06

32	Batagal iron ore mine T.C. 12/53 Maina village of Quepem North Goa District of late	shri. Vaicunt Cadnekar LH Ajit V.M. Cadnekar75, Francisco de Loyola Road, Margao Goa	Maina, Cavorem/ Quepem/	31.16	26, 27, 28, 64, 65 & 68 of Maina & 15,16, 17,& 19 of Canvorem				Dec-53	24/01/06
33	Polo Dongor iron ore mine T.C. 65/51 at Curpem Sanguem South Goa of	Mis G.F. Figueiredo LH of Late Amalia R.G. FigueiredoH.No. 2730, Murida Fatorda Margao Goa	Curpem/ Sanguem	58.27	/Part of 1, 2, 5 & 8				65/51	31/01/07
34	Gogolegalli Sordo iron ore mine T.C. 68/59 at Bati & Cumbari Village at Saguem Goa of S. Kantilal & Co. Pvt. Ltd.	A. Salgaoncar, Salgaoncar Cvhambers p.B. No. 35, Margao Goa	Bati & Cumbari/ Sanguem	23.02	53 of Bhati & 18 of Cumbari				68/59	31/01/07
35	Souti Gundo iron ore mine T.C. 141/53 at village Nanus, Ponda Taluka North Goa District	M/s Orient (Goa) owner. Smt. Shashikala kakodkarAtmaram Commercial Complex P.B. No. 264 Panaji Goa	Nanus/Ponda	28.972	Part of 177, 178, 180 to 186 & 188				143/53	09/02/07
36	Carimol Charadimol iron ore mine of S. Kantilal & Co. Pvt. Ltd.	A. Salgaoncar, Salgaoncar Cvhambers p.B. No. 35, Margao Goa	Bati / Sanguem	93.36	7,8,9, 16,17 & 18		52 lac		31/57	07/12/06
37	Madanrica iron ore mine of S. Kantilal & Co. Pvt. Ltd	A. Salgaoncar, Salgaoncar Cvhambers p.B. No. 35, Margao Goa	Bati/ Sanguem/	116.772	27,53,58,59,60,75 & 76				32/57	07/12/06
38	Borga iron ore mine consisting of Borga Dongrachem Fall mine and Oiteiro Borga do Bairo Queri	Pandurang Timblo Industries	Rivona/Sanguem	168.698	/73, 74, 75, 150, 151, 152 and Part of 30, 31, 72, 76, 77, 149, 153, 154, 174, 189, 196		60 lac		29/52, 34/50	31/01/07

39	Dudal iron ore mine of Salgaoncar Mining Industries	A. Salgaoncar, Salgaoncar Cvhambers p.B. No. 35, Margao Goa	Dudhal/Sanguem	90.5359	/1/1, 2 to 13, 2/1, 2, 3/0, 4/1,2, 5/1,5/2,5/3, 15/0, 42/0, 46/0, 41/1 & 41/2				24/50	31/01/07
40	Iranqui iron ore mine of M/s Kantilal Co. Pvt. Ltd	A. Salgaoncar, Salgaoncar Cvhambers p.B. No. 35, Margao Goa	Potrem/Sanguem		/10, 12 to 16				34/57	31/01/07
41	Mahavir Bauxite mine of	Shri. Pravin Kumar Gosalia	Cabo-de- Rama, Nuem, Canaguinim/Canacona							07/02/07
42	Restarting of Chormol-e- Adjacentes iron ore mine of	M/s Babal Sanvlo Naik Tari	Bhati/Sanguem		29/1, 29/2, 30, 31 & 53(P)					22/03/07
43	Common Hazardous Waste Management facility	Goa IDC	Dharbandora/Sanguem		193					07/03/07