

GOA STATE POLLUTION CONTROL BOARD
गोंय राज्य प्रदुशण नियंत्रण मंडळ
(An ISO 9001 - 2008 Certified Board)

Jose Manuel Noronha
Chairman



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Chairman's Message

The Goa State Pollution Control Board was reconstituted on 3/09/2012 under the Water (Prevention and Control of Pollution) Act 1974, with a mandate to plan a comprehensive programme for the prevention, control and abatement of Water and Air pollution in the state of Goa. The Board also advises the state government on matters concerning the prevention, control and abatement of Water and Air pollution and has well equipped laboratories which are capable of analyzing a wide variety of contaminants in Air and Water. The Board also implements the Biomedical Waste (Management and Handling) Rules 1998, Noise Pollution (Regulation and Control) Rules 2000, Municipal Solid Waste Manufacturer, Sale and Usage Rules 1999, Batteries (Management and Handling) Rules 2001, Electronic Waste (Management and Handling) Rules 2000.

During the year under the review the Board, received complaints from citizens of Vasco da-Gama, town regarding dust pollution as a result of coal/ coke handling activities in MPT Port at berth 10 and 11 and taking cognizance of the Ambient Air Quality reports at six locations within the vicinity of the MPT withdrew its Consent to Operate earlier issued to MPT after particulate matter levels (PM₁₀) at all these location were found to be beyond permissible limits. The Board also issued directions to seventeen category Industries for installing of Continuous Ambient Air Quality Monitoring Systems and most of the industries have complied with these directions. The matter of indiscriminate

disposal of waste generated by Hotels was noted by the Board and directions were issued to all hotels to install organic waste convertors (OWC) to convert Bio-degradable waste into compost and a vast majority of hotels in the state have already installed these convertors. The Board also regularly conducts air and water monitoring at various locations in the state of Goa and suggests ways and means of remediation if the need arises.

The staff of various departments of the Board including the Technical section, Scientific section, Legal section, Account section and Administrative section have continued to work with dedication and sincerity, allowing the Board to achieve significant improvements in implementing its Environmental policies.



(Jose Manuel Noronha)
Chairman

CONTENTS

Chairman's Message

Chapter No.	Description	Page No.
1.	Introduction	1-5
1.1	General Introduction	1
1.2	The Board Office	1-3
1.3	Setup of the Goa State Pollution Control Board	3-5
2.	Constitution of the Board	6
3.	Meetings of the Board	7-34
3.2	Extracts of the Minutes of the Board Meetings held during the year	7-34
4.	Committees constituted by the Board	35-36
4.1	Technical Advisory Committee	35
4.2	Purchase Committee	35-36
4.3	Complaints Committee	36
4.4	Committee on Prevention of Sexual Harassment of Women in Workplace	36
5.	Monitoring Network for Air and Water Quality	37-40
5.1	National Air Monitoring Programme (NAMP)	37-38
5.2	National Water Monitoring Programme	38-40
6.	Present State of Environment, Environmental Problems and Counter Measures	41-55
6.1	Studies on the Trend of Air Quality in Goa	41-47
6.2	Studies on the Trend of Water Quality in Goa	47-50
6.3	Continuous Ambient Air Quality Monitoring Stations	50-51
6.4	Installation of Organic Waste Converter (OWC) by Hotels	52-54
6.5	Proposed Common Hazardous Waste Management site at Dharbandora	54
6.6	Sludge Dewatering Unit installed by M/s United Spirits Ltd.	54-55
7.	Environmental Training	56-59
7.1	Trainings / Workshops / Seminars attended by Board officials	56-59
7.2	Deputations in the Board	59
7.3	Resignation from Service	59
8.	Environmental Awareness and Public Participation	60
8.1	Mass Awareness	60
9.	Legal Matters of the Board	61
10.	Finance and Accounts of the Board	62-63
10.1	Status of Auditing of Accounts of the Board	62
10.2	Income, Expenditure and Funding	62-63
11.	Any Other Important Matters dealt with by the Board	64-71
11.1	Implementation of Hazardous Waste (Management, Handling and	64

	Transboundary Movement) Rules, 2008.	
11.2	Implementation of Bio-Medical Waste Management & Handling) Rules, 1998.	64-65
11.3	Noise Pollution (Regulation & Control) Rules, 2000.	65
11.4	Implementation of Municipal Solid Wastes (Management & Handling) Rules, 2000.	65
11.5	Implementation of Plastics Manufacture, Sale & Usage Rules, 1999.	65-66
11.6	Implementation of Batteries (Management & Handling) Rules, 2001.	66
11.7	Implementation of Electronic Wastes (Management & Handling) Rules, 2000.	66
11.8	Objectives & Achievements	66-67
11.9	Celebration of World Environment Day	67-71
11.10	Implementation of the Supreme Court Guidelines on Prevention of Harassment of Women a Workplace.	71

CONTENTS

LIST OF FIGURES

Plate No.	Description	Page No.
Fig 1	Map of Goa showing the Ambient Air Quality Monitoring Stations under the National Air Monitoring Programme (NAMP)	38
Fig 2	Map of Goa showing the Water Quality Monitoring locations under the National Water Monitoring Programme; MINARS	40
Fig 3	Picture showing the schematic diagram of the Sludge De-Watering Unit	55

CONTENTS

LIST OF ANNEXURES

Annexure No.	Description	Page No.
Annexure I	Organogram off the Board	72
Annexure II	List of applications for Consents to Establish/ Operate under Water (Prevention & Control of Pollution) Act, 1974, Air (Prevention & Control of Pollution) Act, 1981 and Hazardous Waste (Management, Handling and Transboundary Movement) Rules, 2008processed and cleared during the year 2012-13.	73-85
Annexure III	MINARS Data	86-107
Annexure IV	Water Monitoring Data pre and post Ganesh Visarjan	108-112
Annexure V	Ambient Air Quality Data	113-118
Annexure VI	Synopsis of the major cases pending in the High Court of Bombay at Goa	119-120
Annexure VII	Table details of number of requests received, disposed off, rejected, fees collected, appeals preferred to the first Appellate Authority, outcome of appeals under RTI Act, 2005 for the Financial year April 2008 to March 2009	121-142
Annexure VIII	Status of Hazardous Waste generated during the year	143-177
Annexure IX	Status of Bio-Medical Waste generated during the year	178
Annexure X	Annual Returns of Lead Acid Batteries from April 2012-March 2013	179

CONTENTS

LIST OF PLATES

Plate No.	Description	Page No.
Plate 1a	View of Analyst working in the Laboratory	1
Plate 6a	Inauguration of Continuous Ambient Air Quality Monitoring System at M/s Zuari Industries Ltd.	51
Plate 6b:	OWC at M/s KHR Hospitality India Ltd. (Unit: Kenilworth Beach Resort), Utorda	53
Plate 6c	OWC at M/s Fomento Resorts & Hotels Ltd. (Cidade de Goa Beach Resort), Dona-Paula	53
Plate 6d:	OWC & Shredder at M/s Grand Hyatt, Bambolim	53
Plate 6e:	Shredder & OWC at M/s Taj Vivanta, Panaji	53
Plate 6f:	OWC at M/s The Leela Goa	54
Plate 6g:	OWC at M/s Averina International Resorts Ltd., Holiday Inn Resort Goa, Mobor, Caveossim-Goa	54
Plate 6h:	Sludge De-Watering unit (SLUDGLESS) installed at M/s Unites Spirits Ltd.	55
Plate 14a:	Launching of new webpage of GSPCB website	67
Plate 14b:	Dignitaries present during the launching of new webpage	67
Plate 14c:	Children's poster competition	68
Plate 14d:	First Prize Jr. Category : Kezia DaCosta	68
Plate 14e	First Prize Sub. Jr. Category: Keane Fernandes	68
Plate 14f	First Prize Sr. Category: George Dias	68
Plate 14g	Environment Quiz competition	69
Plate 14h	Best Environmental Practices competition	69
Plate 14i	Street play at Panaji	69
Plate 14j	Street play at Vasco	69
Plate 14k	Street play at Madgaon	69
Plate 14l	Shri Martin Ghosh-Plant Head Syngenta	70
Plate 14m	Environmental Awareness program	70
Plate 14n	Lighting of the lamp	70
Plate 14o	BEP: WED audience	70
Plate 14p	BEP: 1 st Prize M/s Sesa Goa	70
Plate 14q	BEP: 2 nd Prize M/s Siemens	70
Plate 14r	BEP: 3 rd Prize M/s Goa Glass Fibre	71
Plate 14s	Board Staff recognition of participation	71
Plate 14t	Childrens Poster Competition prize	71
Plate 14u	Board Staff prize distribution	71
Plate 14v	Address by the chief guest	71

CHAPTER 1

INTRODUCTION

1.1 GENERAL INTRODUCTION

The Goa State Pollution Control Board is an autonomous statutory organization constituted on 1st 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 4th April, 1988. All the relevant records pertaining to Goa were transferred to the Goa State Pollution Control Board on 12th 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 15th August, 2002 the Board acquired new premises on the 1st floor in Dempo Tower at Patto Plaza, Panaji and shifted its full set-up to this new premise. Subsequently, on 15th August, 2005, the Board acquired additional premises measuring 311.86 Sq. mt. on the 4th floor of the same building. The Physical and Analytical Laboratory-I was set up on the 1st Floor and the Physical and Analytical Laboratory-II and the Microbiology Laboratory were set up on the 4th Floor.

1.2 THE BOARD OFFICE

The Goa State Pollution Control Board is presently operating from its own premises on the first floor and the fourth floor of Dempo Towers, EDC Patto Plaza, Panaji-Goa. The Office of the Chairman, Member Secretary, Technical section, Legal section and Account section are operating from the first floor of Dempo Towers having a built up area of 600 sq.mts. Presently there are one hundred and thirty five staff employed in the Board. All the staff is stationed in the Office of the Board in Dempo Towers. All the applicants and the complainants have to approach the Office at Dempo Towers. The Board comprises of various sections such as Scientific Section, Technical Section, legal Section, Accounts Section and Administrative Section. The functions of the various sections are detailed below.

1.2.1 SCIENTIFIC SECTION



Plate 1a: View of Analyst working in Laboratory

The Board has a full fledged laboratory, operating from the 4th floor of Dempo Towers having a built up area of about 400 sq.mts. The laboratory is well equipped with instruments and equipments needed for carrying out analysis of water, air and soil samples of industrial effluents, rivers, wells, etc for chemical, physical and bacteriological parameters including trace and toxic metals, pesticides and organic components. The Board laboratory is MoEF and NABL accredited and follows the procedures and guidelines in accordance with the said accreditations. During the year under report the Scientific Section was involved in inspections related to consent management and of hazardous waste handling facilities, health care facilities, municipal solid waste facilities, etc. During this period the Board collected 1024 samples from various sources such as ETP, STP, mine discharge (settling pond, mining pit, etc.), river water, well water, canal water, etc. and analyzed the same for various parameters.

The Board has set up 16 ambient air quality monitoring stations and 49 water quality monitoring stations under the Central Pollution Control Board projects National Air Monitoring Programme (NAMP) and National Water Monitoring Programme (NWMP). Of the 16 air stations, 13 are outsourced to MoEF approved laboratories and 3 are operated by the GSPCB. The 49 NWMP stations are also manned by GSPCB. The air and water stations operated by GSPCB are monitored at defined intervals and the samples collected are analysed at the Board laboratory for physical, chemical, metals, pesticides and microbiological parameters. The Board has two mobile laboratories which are being used during NAMP and NWMP monitoring programmes throughout the year.

1.2.2 TECHNICAL SECTION

The Technical Section looks after the consent management. The industries, hazardous waste handling facilities, health care facilities, municipal solid waste facilities, etc. are inspected and monitored on regular basis and consents under the relevant acts and rules are issued.

Besides the above regular inspections, periodic inspections to monitor red category industries are also conducted to check the compliance by the units. Samples of waste water, ambient air and stack emissions are monitored and analyzed in the Board laboratory.

Additionally, inspections in response to public complaints are also attended to by the Boards' officials as and when required after initially scrutinizing the complaints through the 'Complaint Committee'. Samples are collected and analysed where required. Consequent to the inspections, legal notices are issued in the non-complying cases, upon which, the industrial units have to take up necessary remedial measures to close the non-compliances. Subsequently, these cases are re-inspected to monitor the non-compliances.

1.2.3 LEGAL SECTION

The legal section handles all the legal / Court matters related to the functions of the Board. The legal section also looks after Public Hearing and matters related to Right to Information Act.

1.2.4 ADMINISTRATIVE CUM ACCOUNTS SECTION

This section handles the financial and accounts matters of the Board. The auditing of the accounts is conducted periodically through Comptroller Auditor General of India. The maintenance of the service records, i.e., appointments, trainings, service benefits of the staff is dealt with by the section.

1.2.5 OTHER AMENITIES

1.2.5.1 LIBRARY FACILITIES

The Board has a spacious library of its own on the 4th 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.

1.2.5.2 CONFERENCE ROOM

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

1.3 SETUP OF THE GOA STATE POLLUTION CONTROL BOARD

The Goa State Pollution Control Board has recruited staff under the Technical, Scientific, Administrative and Accounts sections expanded its manpower during the end of 2011. With the recruitment process the strength has increased to 138 nos. Apart from the above employees, the Board has into its employ additional 4 employees on contract basis as personnel staff to the Chairman. The details of the staff are provided in the table below and the Organization Chart is attached as Annexure I.

SR.NO	NAME OF THE EMPLOYEE	DESIGNATION
1	Shri. Jose Manuel Noronha	Chairman
2	Shri. Levinson J. Martins	Member Secretary
Scientific Section		
1	Mrs. Jenica Sequeira	Scientist 'C'
2	Ms. Connie Fernandes	Scientist 'C'
3	Dr. Mohan Girap	Scientist 'C'
4	Mrs. Francisca Pereira	Scientist 'B'
5	Mr. Sanjay Kankonkar	Scientific Assistant
6	Mr. Nilesh Parsekar	Scientific Assistant
7	Mrs. Anny Dias	Scientific Assistant
8	Mrs. Livia D'silva	Scientific Assistant
9	Mr. Ganpat Naik	Scientific Assistant
10	Ms. Edma Fernandes	Scientific Assistant
11	Mrs. Joshna Mahale	Scientific Assistant
12	Mrs. Avina Pereira	Scientific Assistant
13	Mr. Chaitanya Salgoankar	Scientific Assistant
14	Mrs. Chetna Naik	Scientific Assistant
15	Mr. Ravi Naik	Scientific Assistant
16	Ms. Reshma Vaz	Scientific Assistant
17	Mr. Krishnanath Pednekar	Scientific Assistant
18	Ms. Denza Cardozo	Scientific Assistant
19	Mrs. Payal Baadkar	Scientific Assistant

20	Ms. Elvira Martins	Scientific Assistant
21	Ms. Shabna Nadaf	Scientific Assistant
22	Ms. Jewela Miranda	Scientific Assistant
23	Mr. Sajid Inamdar	Senior Laboratory Assistant
24	Mr. Waman Chari	Senior Laboratory Assistant
25	Mr. Santosh Haldankar	Senior Laboratory Assistant
26	Mr. Sanmesh Borkar	Senior Laboratory Assistant
27	Mr. Nilesh Surlekar	Senior Laboratory Assistant
28	Mr. Samir Borkar	Senior Laboratory Assistant
29	Ms. Sonia Borges	Senior Laboratory Assistant
30	Mrs. Luiza Ferrao e Gracias	Senior Laboratory Assistant
31	Ms. Prisca Borges	Senior Laboratory Assistant
32	Mrs. Fransquina Fernandes	Senior Laboratory Assistant
33	Ms. Jessica Fernandes	Senior Laboratory Assistant
34	Mrs. Jocelyn Coelho	Junior Laboratory Assistant
35	Mr. Kamlesh Kavlekar	Junior Laboratory Assistant
36	Mr. Sunny Pirankar	Junior Laboratory Assistant
37	Mr. Deepak Naik	Junior Laboratory Assistant
38	Ms. Reema Kaulekar	Junior Laboratory Assistant
39	Mr. Freddy Barbosa	Junior Laboratory Assistant
40	Ms. Felsy Pereira	Junior Laboratory Assistant
41	Ms. Sophia Dias	Junior Laboratory Assistant
42	Mr. Johnny Moniz	Junior Laboratory Assistant
43	Ms. Nishtha Lolayekar	Junior Laboratory Assistant
44	Mrs. Quiteria Fernandes e Pereira	Junior Laboratory Assistant
45	Ms. Sheetal Laad	Junior Laboratory Assistant
46	Ms. Wilma D'costa	Junior Laboratory Assistant
47	Mr. Anthony Miranda	Junior Laboratory Assistant
48	Mrs. Rowena Fernandes	Junior Laboratory Assistant
49	Mrs. Clemy Rodrigues	Junior Laboratory Assistant
50	Mr. Anil Parab	Field Assistant
51	Mr. Chandrashekar Parab	Field Assistant
52	Mr. Xawollino Rodrigues	Field Assistant
53	Ms. Luiza D'silva	Field Assistant
54	Mrs. Milagrina Colaco	Field Assistant
55	Mr. Sidney Gracias	Field Assistant
56	Mr. Saby Fernandes	Field Assistant
57	Mrs. Sangita Korgaonkar	Laboratory Attendant
58	Mr. Ishu Vishnu Dhulapkar	Laboratory Attendant
59	Mr. Mario Fernandes	Laboratory Attendant
60	Mr. Bhuvan Borkar	Laboratory Attendant
LEGAL SECTION		
1	Mrs. Natalia Dias	Senior Law Officer
2	Mr. Constance Fernandes	Assistant Law Officer
ACCOUNTS SECTION		
1	Mr. Manohar Borkar	Accounts Officer
2	Mr. Vidyesh Mahmal	Accountant
3	Ms. Mitzi D'silva	Accounts Clerk
4	Ms. Nevies Miranda	Accounts Clerk
5	Ms. Berlyn Fernandes	Accounts Clerk
6	Ms. Stefanie Carvalho	Accounts Clerk
ADMINISTRATION SECTION		
1	Mrs. Tulita da Costa e Fernandes	Office Superintendent
2	Mrs. Elmana M D'Silva	Head Clerk
3	Mrs. Swapna Naik	Senior Stenographer
4	Mrs. Daya Usgaonkar e Godinho	Upper Division Clerk
5	Mr. Cedric De Souza	Upper Division Clerk
6	Ms. Margaret Cardozo	Junior Stenographer

7	Ms. Debra Pereira	Junior Stenographer
8	Ms. Valanie Abranches	Data Entry Operator
9	Mrs. Abygale Vaz	Data Entry Operator
10	Mrs. Dorothy Fernandes	Data Entry Operator
11	Mr. Alleluia D'Mello	Data Entry Operator
12	Mrs. Francisca Auria Lobo	Lower Division Clerk
13	Mrs. Plancy Miranda	Lower Division Clerk
14	Ms. Shane Gracias	Lower Division Clerk
15	Mrs. Ana Maria Lourenco	Lower Division Clerk
16	Mr. Maison Fernandes	Lower Division Clerk
17	Mrs. Supriya Nageshkar	Lower Division Clerk
18	Ms. Joice Coutinho	Lower Division Clerk
19	Ms. Ria Naik	Lower Division Clerk
20	Ms. Preeti Barreto	Lower Division Clerk
21	Mrs. Suzee Fernandes	Lower Division Clerk
22	Ms. Alisha Colaco	Lower Division Clerk
23	Mr. Umesh Kankonkar	Record Keeper
24	Mrs. Gaudalupe Dias	Record Keeper
25	Mr. Lourenco Fernandes	Driver
26	Mr. Gopal Girodkar	Driver
27	Mr. Pravin Kavlekar	Driver
28	Mr. Mahesh Veluskar	Driver
29	Mr. Hemant Satarkar	Driver
30	Mr. Narayan Shirodkar	Driver
31	Mr. Shantadurga Pereira	Driver
32	Mr. Daniel Colaco	Driver
33	Mr. Sebastiao Dias	Driver
34	Mr. Conceicao Colaco	Driver
35	Mr. Derrick Dias	Peon
36	Mr. Salvador Rodrigues	Peon
37	Mr. Denister Dias	Peon
38	Mrs. Catarina Pereira	Peon
39	Mr. Roque Fernandes	Peon
40	Mr. Ankush Kankonkar	Peon
41	Mrs. Piedade Crasto	Peon
42	Mr. Issac Lobo	Peon
TECHNICAL SECTION		
1	Mr. Sanjeev Joglekar	Assistant Emt. Engineer
2	Mrs. Nandan Prabhudessai	Junior Emt. Engineer (Civil)
3	Mr. Keshav Fadke	Junior Emt. Engineer (Civil)
4	Mr. Abner Rodrigues	Junior Emt. Engineer (Civil)
5	Mr. Eknath Gopal Kerkar	Junior Emt. Engineer (Civil)
6	Mr. Rohan Nagvekar	Junior Emt. Engineer (Civil)
7	Mr. Shivprasad Murari	Junior Emt. Engineer (Civil)
8	Mr. Manoj Kudalkar	Junior Emt. Engineer (Mech./Prod)
9	Mr. Amit Shanbhag	Junior Emt. Engineer (Mech./Prod)
10	Mr. Pravin Faldessai	Junior Emt. Engineer (Mech./Prod)
11	Ms. Indira Faldessai	Network Engg. (Software)
12	Mr. Sebastiao Barreto	Engg. Assistant (Civil)
13	Mr. Ashley Pereira	Engg. Assistant (Civil)
14	Mr. Vinson Quadros	Engg. Assistant (Civil)
15	Mr. Sebastiao Colaco	Engg. Assistant (Civil)
16	Mr. Liston Fernandes	Engg. Assistant (Mechanical)
17	Mr. Chetan Upadhye	Network Assistant (Hardware)
18	Mr. Rajendra Naik	Network Assistant (Hardware)
19	Mr. Pratik Chari	Network Assistant (Computers)

CHAPTER 2

CONSTITUTION OF THE BOARD

2.1 CONSTITUTION OF THE BOARD INCLUDING CHANGES THEREIN

The present Board was constituted under the chairmanship of Shri. Jose Manuel Noronha. This Board was constituted vide Order No. 5/20/87-STE/P-IV/635 dated 3rd September, 2012 and the composition is as given below:-

Chairman

1. Shri. Jose Manuel Noronha, Chief Executive Officer, Agnel Technical Education Complex, Verna and Assagao.

Members

2. Addl. Principal Chief Conservator of Forests.
3. Director, Directorate of Industries, Trade & Commerce, Panaji
4. Chief Engineer, Water Resource Department, Panaji
5. Director, Directorate of Mines & Geology, Panaji
6. Director, Department of Tourism
7. Shri. Narayan Naik, Sarpanch, Village Panchayat of Sancoale, Sancoale.
8. Shri. Tony Rodrigues, Dy. Mayor, Corporation of City of Panaji.
9. Dr. Vasudev Deshpabhu, Chairperson, Pernem Municipal Council
10. Ms. Fatima Pereira, Sarpanch, Village Panchayat of Velsao.
11. Shri. Frank Fernandes, Sarpanch, Village Panchayat of Navelim
12. Shri. Shekhar Sardesai, President, Goa State Industries Association, Panaji
13. Shri. Shrirang Jamble, Agriculturist, Savoi – Verem, Ponda
14. Dr. Marconi Correia, Medical Practitioner, Cansaulim, Mormugao
15. Dr. Pramod Sawant, Vice Chairperson, Goa State Infrastructure Development Corporation Ltd, Panaji

Member Secretary

16. Shri. Levinson Martins, Goa Civil Services.

CHAPTER 3

MEETINGS OF THE BOARD

3.1 During the year under report, the Goa State Pollution Control Board held four Board Meetings under the reconstituted Board. The details of the meetings held during the year are presented in the Table below:-

Sr. No.	Sr. No. of Meeting	Date of meeting	Venue	No. of members who attended the meeting
1.	103 rd	12/04/2012	Board's Conference Hall	07
2.	104 th	25/09/2012	Board's Conference Hall	13
3.	105 th	01/11/2013	Board's Conference Hall	13
4.	106 th	11/02/2013	Board's Conference Hall	13
5.	107 th	15/02/2013	Board's Conference Hall	11

3.2 EXTRACTS OF MINUTES OF BOARD MEETINGS HELD DURING THE YEAR UNDER REPORT

103rd MEETING OF THE BOARD

In the 103rd Meeting, the Board took the following decisions:

Agenda Item No. 1

Confirmation of the minutes of the 103rd meeting of the Goa State Pollution Control Board held on 9th December, 2011.

The members perused and confirmed the minutes of the 102nd meeting of the Board held on 09/12/2011, so as to enter the same in the minutes book.

Agenda Item no. 2

Review of action taken on earlier decisions of the Board.

c. The members noted that the renewal of Consent to Operate is granted under the Water Act and the Air Act for berth nos. 8, 9, 10 and 11 of Mormugao Port Trust, including Consent to Establish to berth no. 7. Chairman also informed the members that the Writ Petition of MPT in the Hon. High Court in respect of coal pollution has been disposed off and the Hon. High Court has passed orders to MPT to comply with the Board's directions and to treat the Board's directions as High Court directions.

III & IV – Chairman informed the Members that the mining companies have filed a Writ Petition before the Hon. High Court challenging the fee structure in the Notification for carrying out mining activities, and the Department of Science, Technology & Environment has informed the Hon. High Court that the said Notification will be withdrawn and as such the Board is awaiting a fresh Notification in this regard. The members further resolved that the validity of Consents under the Water Act and the Air Act for Red, Orange and Green categories (Small Scale Enterprise, Medium Scale Enterprise and Large Scale Enterprise) be as follows:

Sr.	Type of Industry	Validity
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No.		
RED		
1.	Red (Large Scale Enterprise)	2 years
2.	Red (Medium Scale Enterprise)	2 years
3.	Red (Micro, Small Scale Enterprise)	5 years
ORANGE		
1.	Orange (Large Scale Enterprise)	3 years
2.	Orange (hotel more than 50 rooms)	3 years
3.	Orange (Medium Scale Enterprise)	3 years
4.	Orange (operation of STP and D.G set for residential complex)	5 years
5.	Orange (Micro, Small Scale Enterprise and hotels with 50 rooms and less	7 years
GREEN		
1.	Green (Large Scale Enterprise)	5 years
2.	Green (Medium Scale Enterprise)	5 years
3.	Green (Micro, Small Scale Enterprise)	10 years

Agenda item no. 10 - The Board noted that three vehicles have been purchased and also approved for purchase of one more additional vehicle to carry out its functions. The members authorised the Chairman to select an appropriate brand / type of vehicle and purchase the same from an authorised dealer.

Agenda item no. 3

Adoption of the Audit Report of the Board for the financial year 2009-2010.

The Chairman placed before the members the Report Audit for the financial year 2009-2010 and compliance to the Audit paras. He further stated that the Board would have also completed the Audit for the financial year 2010-11, but however the Government / Controller and Auditor General has not yet communicated the details of the Statutory Auditor for the years 2010-11 and 2011-2012.

The members perused the Audit Report for the financial year 2009-2010 submitted by Govt. appointed auditor M/s Naik Gaunekar & Co., Chartered Accountants and thereafter passed the following resolution unanimously:

“RESOLVED THAT Receipts and Payments, Income and Expenditure Account and the Balance sheet together with notes thereon for the financial year ended on 31st March, 2009 be and are hereby approved.

RESOLVED FURTHER THAT the Chairman, the Member Secretary, the Accounts cum Administrative Officer are hereby authorised to sign the Audited Annual Accounts of the Goa State Pollution Control Board jointly.”

Agenda item no. 4

Application of M/s Nestle India Limited, Survey no. 3, 4/7(Part), 11(Part), 13 (Part), 34 (Part) & 136 (Part), Village Maulinguem, Bicholim Goa, for Consent to Establish (expansion) under the Air Act and Water Act.

The Chairman informed the members that the State's HPCC has cleared the proposal of M/s Nestle India Limited in principle. The HPCC has cleared the above proposal with a condition that the unit shall make provisions for rain water harvesting and re-charging of wells, within their premises, so as to recharge the ground water aquifer, which has been depleted. The members observed that the applicant unit may be required to take permission from the Ground Water Officers appointed under the Goa Ground Water Regulation Act, 2002, for construction of bore wells or utilization of the ground water in the area.

The members suggested that the unit should submit their plans for rain water harvesting and re-charge of wells along with designs to the Water Resource Department for scrutiny and approval.

The members approved the proposal for Consent to Establish under the Water Act and the Air Act (expansion) of M/s Nestle India Limited, Survey no. 3, 4/7(Part), 11(Part), 13 (Part), 34 (Part) & 136 (Part), Village Maulinguem, Bicholim Goa, as approved by the HPCC and subject to the implementation of rain water harvesting and ground water recharge measures.

Agenda item no. 5

Application of M/s Merck Limited, Survey no. 11/1, Marvasodo, Usgaon, Ponda Goa for Consent to Establish (expansion) under the Water Act and the Air Act.

The Chairman informed the members that the State's HPCC has cleared the proposal of M/s Merck Limited in principle. The HPCC has cleared the above proposal with a condition that the unit shall make provisions for rain water harvesting and re-charging of wells, within their premises, so as to recharge the ground water aquifer, which has been depleted. The members observed that the applicant unit may be required to take permission from the Ground Water Officers appointed under the Goa Ground Water Regulation Act, 2002, for construction of bore wells or utilization of the ground water in the area.

The members suggested that the unit should submit their plans for rain water harvesting and re-charge of wells along with designs to the Water Resource Department for scrutiny and approval.

The members approved the proposal for Consent to Establish under the Water Act and the Air Act (expansion) of M/s Merck Limited, Survey no. 11/1, Marvasodo, Usgaon, Ponda Goa, as approved by the HPCC and subject to the implementation of rain water harvesting and ground water recharge measures.

Agenda item no. 6

Application of M/s Procter & Gamble Hygiene & Health Care Limited, Plot no. 173, 314, 315, Kundaim Industrial Estate, Kundaim, Goa, for Consent to Establish (expansion) under the Water Act and the Air Act.

The Chairman informed the members that the State's HPCC has cleared the proposal of M/s Procter & Gamble Hygiene & Health Care Limited in principle. The HPCC has cleared the above proposal with a condition that the unit shall make provisions for rain water harvesting and re-charging of wells, within their premises, so as to recharge the ground water aquifer, which has been depleted. The members observed that the applicant unit may be required to take permission from the Ground Water Officers appointed under the Goa Ground Water Regulation Act, 2002, for construction of bore wells or utilization of the ground water in the area.

The members suggested that the unit should submit their plans for rain water harvesting and re-charge of wells along with designs to the Water Resource Department for scrutiny and approval.

The members approved the proposal for Consent to Establish under the Water Act and the Air Act (expansion) of M/s Procter & Gamble Hygiene & Health Care Limited, Plot no. 173, 314, 315, Kundaim Industrial Estate, Kundaim, Goa, as approved by HPCC and subject to the implementation of rain water harvesting and ground water recharge measures.

Agenda item no. 7

Application of M/s Abbott India Limited, Plot no. L-18 & L-19, Verna Industrial Estate, Verna, Goa, for Consent to Establish (expansion) under the Water Act and the Air Act.

The Chairman informed the members that the State's HPCC has cleared the proposal of M/s Abbot India Limited in principle. The HPCC has cleared the above proposal with a condition that the unit shall make

provisions for rain water harvesting and re-charging of wells, within their premises, so as to recharge the ground water aquifer, which has been depleted. The members observed that the applicant unit may be required to take permission from the Ground Water Officers appointed under the Goa Ground Water Regulation Act, 2002, for construction of bore wells or utilization of the ground water in the area.

The members suggested that the unit should submit their plans for rain water harvesting and re-charge of wells along with designs to the Water Resource Department for scrutiny and approval.

The members approved the proposal for Consent to Establish under the Water Act and the Air Act (expansion) of M/s Abbott India Limited, Plot no. L-18 & L-19, Verna Industrial Estate, Verna, Goa, as approved by HPCC and subject to the implementation of rain water harvesting and ground water recharge measures.

Agenda item no. 8

Application of M/s Zuari Industries Limited, Survey no. 110-252, Sancoale, Goa for Consents to Establish (expansion) under the Air Act and the Water Act.

The Chairman informed the members that M/s Zuari Industries Limited intends to revamp the ammonia plant for changeover of feedstock and fuel from naphtha to NG/RLNG and reduction of specific energy consumption along with debottlenecking the capacity of ammonia – urea plants and changeover of fuel from FO to NG/RLNG in the utility boiler as also debottlenecking the capacity of NPK plant A & B along with product mix change at Zuarinagar, Goa.

The members also noted the Environmental Clearance accorded by the Ministry of Environment and Forests (IA) Division, Govt. of India for the said project. The members agreed changeover of feedstock and fuel from FO to NG/RLNG.

Agenda item no. 9

Annual Report of the Board for the year 2010-2011.

The members perused and approved the draft of the Annual Report of the Board for the year 2010-2011, so as to forward the same to the Department of Science, Technology & Environment, Government of Goa to place the same before the State Legislative Assembly.

Agenda item no. 10

Imposition of late fees on Guest Houses / Restaurants / Hospitals failing to apply for Consents / Authorization of the Board by 31/08/2012.

Chairman informed the members that the Board was earlier not insisting on Guest Houses and Restaurants to obtain Consent under the Water and Air Act. However, during the proceedings in the PIL W.P. No. 15/2011, it has been observed by the Hon'ble High Court that all units generating and discharging sewage are covered under the provisions of section 25 & 26 of the Water (Prevention and Control of Pollution) Act, 1974 and similarly covered under section 21 of the Air (Prevention and Control of Pollution) Act, 1981.

The members agreed that the Board collect only one fee from such units/activities on receipt of applications from those units which are already in operation for a period upto 30/08/2012. It was also proposed to issue a Notice in all the dailies to bring to the notice of these Industries/ activities, that they are required to obtain the Consent of the Board by 31/08/2012. In case such units fail to submit an application by 31/08/2012, the Board may impose fees and late fees from commencement of operation of the unit.

The members also agreed that the validity period of Consent / Authorization in case of Restaurants be seven years i.e. similar to Hotels having less than 50 rooms and in case of Hospitals having less than 100

beds should have validity period of 5 years and hospitals having more the 100 beds should have validity period of 2 years as applicable to SSE units in Red category.

The members were also of the view that wherever a Common Sewage treatment plant exists, the unit should be directed to compulsorily connect its sewer lines to the Sewage treatment system.

Agenda item no. 11

Fixing of validity period of Bio-medical Waste Authorizations/ Consent for Hospitals / Pathological laboratories (Health care facilities).

Chairman informed the members that the Department of Science, Technology & Environment, Government of Goa has amended the Goa Water (Prevention and Control of Pollution) Rules, as well as the Goa Air (Prevention and Control of Pollution) Rules vide Notification dated 11th August, 2011, wherein categorization of industries / activities has been notified and hospitals / Pathological labs have been covered under the Red Category activities.

Chairman also informed the members that the Notification mentions different validity period for Small Scale Enterprise (SCE), Medium Scale Enterprise (MSE) and Large Scale Enterprise (LSE) and hospitals / pathological labs cannot be classified into SSE/MSE/LSE.

The members agreed to issue a validity of Consent to Operate / Authorization for 5 years to hospitals having less than 100 beds and 2 years for hospitals having 100 beds and above and Pathological Labs with a validity period of 5 years.

The members were of the opinion that since the validity period is too long and a mechanism should be put in place to monitor the compliance of the Authorization. They also suggested that the hospital waste should be segregated before handing it over to the Authorised collector and failure to comply with the Bio-medical waste Rules, the unit should be penalised for the same.

Agenda item no. 12

Funding of a Research Proposal submitted by the Energy and Resource Institute (TERI) regarding 'Persistence of pesticides in the Mandovi Estuarine Eco system, Goa.

Chairman informed the members that Tata Energy and Resource Institute (TERI), Goa has submitted a Research proposal entitled "Persistence of pesticides in the Mandovi estuarine eco system, Goa," with a request for possible funding and support from the Board.

The expected outcomes of the Research project are as follows:

- Detailed report of different pesticides usage in agricultural activity in Goa and the list of pesticides produced in Goa.
- Report on the persistence and toxicity of the pesticides that are used and produced in Goa.
- Detection and determination of selected persistence pesticides in the Mandovi estuarine ecosystem, Goa.

Chairman also informed the members that Central Pollution Control Board is encouraging such studies and are also funded by them. Chairman also informed the members since the Board is reimbursed 80% of the Water Cess fees, which are to be utilised for abatement of pollution, the same could be used for funding of such studies.

After perusal the members decided to fund the project subject to the following conditions:

- a. The Principal Investigator and Co-Investigator remain with TERI till the completion of the study, and an undertaking to this effect be obtained.
- b. TERI should give the exact dates of starting and completion of the study.
- c. The sampling locations to be extended by another 3 locations i.e upto Khandepar river.
- d. The study should be funded in instalments i.e stage wise which is to be devised by the Board, in case of non compliance, a penalty should be imposed and the final amount should be deducted.

The members agreed for funding of the proposal of TERI for carrying out a Research proposal on 'Persistence of pesticides in the Mandovi Estuarine Eco System, Goa, at a cost of Rs. 1,550,000/- and the project be booked as expenditure under the Water Cess, in order to obtain reimbursement of the entire cost from the Ministry of Environment and Forests, Govt. of India.

Agenda item no. 13

Files cleared by the Technical Advisory Committee and the files cleared of the Board during its meetings held from 28/06/2011 to 09/04/2012 and the files cleared by the Chairman (Green category files) through XGN mode.

The members perused and approved the same.

Table item no. 1

Application of M/s Goa Formulation Limited, Plot no. 1, Phase III, Honda Industrial Estate, for grant of Consent to Establish (expansion) under the Air Act and Water Act.

The Chairman informed the members that the State's HPCC has cleared the proposal of M/s Goa Formulation Limited in principle. The HPCC has cleared the above proposal with a condition that the unit shall make provisions for rain water harvesting and re-charging of wells, within their premises, so as to recharge the ground water aquifer, which has been depleted. The members observed that the applicant unit may be required to take permission from the Ground Water Officers appointed under the Goa Ground Water Regulation Act, 2002, for construction of bore wells or utilization of the ground water in the area.

The members suggested that the unit should submit their plans for rain water harvesting and re-charge of wells along with designs to the Water Resource Department for scrutiny and approval.

The members approved the proposal for Consent to Establish under the Water Act and the Air Act (expansion) of M/s Goa Formulation Limited, Plot no. 1, Phase III, Honda Industrial Estate, as approved by HPCC and subject to the implementation of rain water harvesting and ground water recharge measures.

Table item no. 2

Application of M/s Parenteral Biotech Limited, Plot no. 2, Phase III, Honda Industrial Estate, for grant of Consent to Establish (expansion) under the Air Act and Water Act.

The Chairman informed the members that the State's HPCC has cleared the proposal of M/s Parenteral Biotech Limited in principle. The HPCC has cleared the above proposal with a condition that the unit shall make provisions for rain water harvesting and re-charging of wells, within their premises, so as to recharge the ground water aquifer, which has been depleted. The members observed that the applicant unit may be required to take permission from the Ground Water Officers appointed under the Goa Ground Water Regulation Act, 2002, for construction of bore wells or utilization of the ground water in the area.

The members suggested that the unit should submit their plans for rain water harvesting and re-charge of wells along with designs to the Water Resource Department for scrutiny and approval.

The members approved the proposal for Consent to Establish under the Water Act and the Air Act (expansion) of M/s Parenteral Biotech Limited, Plot no. 2, Phase III, Honda Industrial Estate, as approved by HPCC and subject to the implementation of rain water harvesting and ground water recharge measures.

Table item no. 3

Application of M/s Glenmark Generics (Hormon), Plot no. S - 9, Colvale Industrial Estate, for Consent to Establish (expansion) under the Air Act and Water Act.

The Chairman informed the members that the State's HPCC has cleared the proposal of M/s Glenmark Generics (Hormon), in principle. The HPCC has cleared the above proposal with a condition that the unit shall make provisions for rain water harvesting and re-charging of wells, within their premises, so as to recharge the ground water aquifer, which has been depleted. The members observed that the applicant unit may be required to take permission from the Ground Water Officers appointed under the Goa Ground Water Regulation Act, 2002, for construction of bore wells or utilization of the ground water in the area.

The members suggested that the unit should submit their plans for rain water harvesting and re-charge of wells along with designs to the Water Resource Department for scrutiny and approval.

The members approved the proposal for Consent to Establish under the Water Act and the Air Act (expansion) of M/s Glenmark Generics (Hormon), Plot no. S - 9, Colvale Industrial Estate, as approved by HPCC and subject to the implementation of rain water harvesting and ground water recharge measures.

Table item no. 4

Assessment of Pollution from specific sources' under the programmes identified by Central Pollution Control Board.

Chairman informed the members that under the programme of the Central Pollution Control Board the Goa State Pollution Control Board had undertaken Preparation of reports regarding 'Assessment of Pollution from specific sources' under the programmes identified by Central Pollution Control Board, which were scrutinised by the sub-Committee constituted by the Board in order to go through the various reports. The reports pertaining to (a) Status of e-waste management (b) Status of Municipal Solid Waste and (c) Status of Sewage Management were approved in the 102nd Meeting of the Board held on 09/12/2011. The report pertaining to 'Status of Batteries Management – Goa State' was placed on the table for the perusal of the Members.

The members approved the reports on 'Status of Batteries Management – Goa State' and also decided to release the requisite payments to the agencies.

II. Chairman informed the members that the 103rd meeting is the last meeting of the re-constituted Board under his Chairmanship. He thanked all the Members of the Board for their valuable suggestions / co-operation and for participating in the important discussions of the Board. Chairman also informed the members that the Board is in the process of obtaining ISO 9001:2008 certification through TUV by 15/05/2012.

104th MEETING OF THE BOARD

In the 104th Meeting, the Board took the following decisions:

Agenda Item No. 1

Confirmation of the minutes of the 103rd meeting of the Goa State Pollution Control Board held on 12th December, 2012.

The members perused and confirmed the minutes of the 103rd meeting of the Board held on 12/04/2012, so as to enter the same in the minutes book.

Agenda Item no. 2

Review of action taken on earlier decisions of the Board.

- a. Follow up action on the decision taken at the 103rd meeting of the Board – The members perused and noted the same.
- b. Follow up action on the decision taken at the 98th meeting of the Board held on 19/08/2010 – Chairman informed the members that the present premises of the Goa State Pollution Control Board was insufficient for its activities and Statutory requirements.

Chairman informed that the earlier Board had constituted a Committee to decide on the issue concerning a new premises for the Board. Offers from various builders were obtained, however, no final decision in this regard was taken.

Chairman proposed that the Board establish a new premises on a Central location for the State of Goa and informed the members that land was presently available at the Verna Industrial Estate, which belongs to the Goa Industrial Development Corporation

He stated that the proposed new premises for the Board would have to accommodate the existing facilities as well as other facilities like demonstration areas for treatment of bio-medical waste, demonstration for treatment of Hazardous Waste, compositing stations as also areas for demonstration for sources for renewal energy like wind power, solar power etc. He also informed that the construction of the new premises should be a 'Green Building', since the mandate of the Board was in itself for protection of the environment.

After detailed discussions, it was resolved that:

'The Board makes a written application to the Goa Industrial Development Corporation for locating a suitable land admeasuring around 10000 sq. mtrs. it was also resolved that suitable Architect be enlisted for designing of its new facility and the plans and estimates prepared by the Architect be put up to the Board for discussions at its subsequent meeting.

It was further resolved that the Board makes an application to Central Pollution Control Board for sourcing of funds for building of its own premises.'

Agenda Item no. 3

Applicability of Government Circular in respect to payment of one-time bonus of Rs. 5,000/- on the occasion of Goa Golden Jubilee Day.

Chairman informed the members that the Government of Goa vide its Office Memorandum no. 8/6/2011-Fin(R&C) dated 29/05/2012 had announced a one-time bonus of Rs. 5,000/- to all Group 'C' and 'D' Government employees. Subsequently, the Government accorded sanction for payment of one-time bonus of Rs. 5000/- to all the Government and Government aided employees, belonging to Group 'A', 'B', 'C', and 'D' category.

It was further stated that the Board had addressed a letter to the Director, Department of Science, Technology & Environment, seeking clarifications on the applicability of this Circular to the staff of the Goa State Pollution Control Board. It was further informed that Director, Department of Science, Technology &

Environment clarified that an appropriate independent decision to grant one-time bonus to its employees may be taken by the Board.

Chairman further informed that accordingly a proposal was placed before the Board for a decision.

After deliberations, the Board resolved that 'one-time bonus of Rs. 5000/- be made applicable to all its employees who have completed one year of regular service as on 19/12/2011'.

Agenda Item no. 4

Application of M/s Berger Becker Coatings Pvt. Ltd., Plot no. 114, Pilerne Industrial Estate, Pilerne, Goa, for Renewal of Consent under the Water Act and the Air Act (expansion).

The Chairman informed the members that the State's HPCC has cleared the proposal of M/s Berger Becker Coatings Pvt. Ltd., for the operation of the solvent distillation unit. The HPCC has cleared the above proposal with a condition that the unit shall make provisions for rain water harvesting and re-charging of wells, within their premises, so as to recharge the ground water aquifer, which has been depleted.

The members observed that the applicant unit be asked to submit more details in respect of their operation of the solvent distillation unit, as in the past, the Board was in the recent of numerous complaints from the residents of Candolim due to pollution of the ground water.

After discussions, the members decided to keep the application of M/s Berger Becker Coatings Pvt. Ltd., for Operation of a solvent distillation unit, in abeyance.

Agenda Item no. 5

Application of M/s Aventis Pharma Limited, Plot no. L-121, Phase III, Verna Industrial Estate, Verna, Salcete Goa, for Consent to Establish (NOC) under the Water Act and the Air Act (expansion).

The Chairman informed the members that the State's HPCC has cleared the proposal of M/s Aventis Pharma Limited in principle for increase in the production capacity of its pharmaceutical products i.e tablets from the present capacity of 6090 million nos./annum to 1698 nos./annum, an increase by 7788 million nos./annum and manufacture of new product i.e granules with a capacity of 40000 kgs./annum. The HPCC has cleared the above proposal with a condition that the unit shall make provisions for rain water harvesting and re-charging of wells, within their premises, so as to recharge the ground water aquifer, which has been depleted. The members observed that the applicant unit may be required to take permission from the Ground Water Officers appointed under the Goa Ground Water Regulation Act, 2002, for construction of bore wells or utilization of the ground water in the area.

The members suggested that the unit should submit their plans for rain water harvesting and re-charge of wells along with designs to the Water Resource Department for scrutiny and approval.

The members approved the proposal for M/s Aventis Pharma Limited, Plot no. L-121, Phase III, Verna Industrial Estate, Verna, Salcete Goa, for Consent to Establish (NOC) under the Water Act and the Air Act (expansion) as approved by the HPCC and subject to the implementation of rain water harvesting and ground water recharge.

Agenda Item no. 6

Application of M/s Cadila Healthcare Limited, Plot no. 203 - 213, Kundaim Industrial Estate, Kundaim Goa, for Consent to Establish (NOC) under the Water Act and the Air Act (expansion).

The Chairman informed the members that the State's HPCC has cleared the proposal of M/s Cadila Healthcare Limited in principle for regularization of its existing production capacities for its pharmaceutical

products manufactured i.e: formulation (a) Tablets – 125 crores (b) Injectables - 2,25,000 ltrs. (c) Capsules – 84 millions, Anti cancer – (d) Tablets – 52 millions (e) Vials – 10 lakhs, Agiolax (bulk drug) (f) granules – 5500 tons. The HPCC has cleared the above proposal with a condition that the unit shall make provisions for rain water harvesting and re-charging of wells, within their premises, so as to recharge the ground water aquifer, which has been depleted. The members observed that the applicant unit may be required to take permission from the Ground Water Officers appointed under the Goa Ground Water Regulation Act, 2002, for construction of bore wells or utilization of the ground water in the area.

The members suggested that the unit should submit their plans for rain water harvesting and re-charge of wells along with designs to the Water Resource Department for scrutiny and approval.

The members approved the proposal of M/s Cadila Healthcare Limited, Plot no. 203 - 213, Kundaim Industrial Estate, Kundaim Goa, for Consent to Establish (NOC) under the Water Act and the Air Act (expansion), as approved by the HPCC and subject to the implementation of rain water harvesting and ground water recharge.

Agenda Item no. 7

Application of M/s Cipla Limited (Plot nos. S-103 to S-105, S-107 to S-112, L-138, L-147, L-150, S-116, L-147/1 to L-147/44, Verna Industrial Estate, Verna Goa, for Consent to Establish (NOC) under the Water Act and the Air Act (expansion).

The Chairman informed the members that the State's HPCC has cleared the proposal of M/s Cipla Limited in principle for expansion in the manufacturing capacities for (i) Tablets from existing 2400 million units /annum to a proposed 90 million units/annum totaling it to 2490 million units/annum, (ii) capsules from the existing 1200 million units/annum to a proposed 122 million units/annum totaling it to 1322 million units/annum and (iii) Capsules (soft gelatin) from the existing 120 million units/annum to a proposed 28 million units/annum totaling its to 148 million units/annum. The HPCC has cleared the above proposal with a condition that the unit shall make provisions for rain water harvesting and re-charging of wells, within their premises, so as to recharge the ground water aquifer, which has been depleted. The members observed that the applicant unit may be required to take permission from the Ground Water Officers appointed under the Goa Ground Water Regulation Act, 2002, for construction of bore wells or utilization of the ground water in the area.

The members suggested that the unit should submit their plans for rain water harvesting and re-charge of wells along with designs to the Water Resource Department for scrutiny and approval.

The members approved the proposal of M/s Cipla Limited (Plot nos. S-103 to S-105, S-107 to S-112, L-138, L-147, L-150, S-116, L-147/1 to L-147/44, Verna Industrial Estate, Verna Goa, for Consent to Establish (NOC) under the Water Act and the Air Act (expansion), as approved by the HPCC and subject to the implementation of rain water harvesting and ground water recharge.

Agenda Item no. 8

Application of M/s Unichem Laboratories Limited, Plot no. 17 & 18, Pilerne Industrial Estate, Pilerne, Goa, for Consent to Establish (NOC) under the Water Act and the Air Act (expansion).

The Chairman informed the members that the State's HPCC has cleared the proposal of M/s Unichem Laboratories Limited in principle for Expansion in the pharma formulation manufacturing and pharma formulation R & D facilities for enhancing the manufacturing capacity of its pharmaceutical products i.e tablets from the existing 900 million tablets/annum to 2400 million tablets/annum an increase by 1500 million tablets/annum along with increase in the built up area of 2592.54 sq.mtrs. for the proposed expansion. The

HPCC has cleared the above proposal with a condition that the unit shall make provisions for rain water harvesting and re-charging of wells, within their premises, so as to recharge the ground water aquifer, which has been depleted. The members observed that the applicant unit may be required to take permission from the Ground Water Officers appointed under the Goa Ground Water Regulation Act, 2002, for construction of bore wells or utilization of the ground water in the area.

The members suggested that the unit should submit their plans for rain water harvesting and re-charge of wells along with designs to the Water Resource Department for scrutiny and approval.

The members approved the proposal of M/s Unichem Laboratories Limited, Plot no. 17 & 18, Pilerne Industrial Estate, Pilerne, Goa, for Consent to Establish (NOC) under the Water Act and the Air Act (expansion), as approved by the HPCC and subject to the implementation of rain water harvesting and ground water recharge.

Agenda Item no. 9

Application of M/s Mabpharm Private Limited, Plot no. 147/B, Verna Industrial Estate, Verna, Goa, for Consent to Establish (NOC) under the Water Act and the Air Act (expansion).

The Chairman informed the members that the proposal of M/s Mabpharm Private Limited is for expansion in their manufacture of bio-chemical pharmaceutical preparations.

The members noted that details in respect of solid waste, its treatment and disposal have not been mentioned in the application.

It was further approved that M/s Mabpharm Private Limited be directed to submit this information, after which, the proposal could be put up for consideration.

Agenda Item no. 10

Application of M/s Tevapharm India Private Limited, Plot no. A-7 to A-10, B-9 to B-11 & C-30 to C-40, Phase I – A, Verna Industrial Estate, Verna, Goa, for Consent to Establish (NOC) under the Water Act and the Air Act (expansion).

The Chairman informed the members that the proposal of M/s Tevapharm India Private Limited is for expansion in the production of capsules from 17 million/month to 132 million/month. The members observed that the applicant unit may be required to take permission from the Ground Water Officers appointed under the Goa Ground Water Regulation Act, 2002, for construction of bore wells or utilization of the ground water in the area.

The members suggested that the unit should submit their plans for rain water harvesting and re-charge of wells along with designs to the Water Resource Department for scrutiny and approval.

The members approved the proposal of M/s Tevapharm India Private Limited, Plot no. A-7 to A-10, B-9 to B-11 & C-30 to C-40, Phase I – A, Verna Industrial Estate, Verna, Goa, for Consent to Establish (NOC) under the Water Act and the Air Act (expansion), subject to obtaining approval from the State HPCC and subject to the implementation of rain water harvesting and ground water recharge.

Agenda Item no. 11

Application of M/s Kodak India Private Limited, Plot no. L-16, Verna Industrial Estate, Verna, Goa, for Consent to Establish (NOC) under the Water Act and the Air Act (expansion).

The Chairman informed the members that the proposal of M/s Kodak India Private Limited is for the manufacture of Digital printing plates (3,00,000 sq. mtrs./month). The members observed that the applicant

unit may be required to take permission from the Ground Water Officers appointed under the Goa Ground Water Regulation Act, 2002, for construction of bore wells or utilization of the ground water in the area.

The members suggested that the unit should submit their plans for rain water harvesting and re-charge of wells along with designs to the Water Resource Department for scrutiny and approval.

The members approved the proposal of M/s Kodak India Private Limited, Plot no. L-16, Verna Industrial Estate, Verna, Goa, for Consent to Establish (NOC) under the Water Act and the Air Act (expansion), subject to obtaining approval from the State HPCC and subject to the implementation of rain water harvesting and ground water recharge.

Agenda Item no. 12

Application of M/s Shree Ambay Forgings Private Limited, Plot no. 343, Kundaim Industrial Estate, Kundaim, Goa, for Consent to Establish (NOC) under the Water Act and the Air Act (expansion).

The Chairman informed the members that the proposal of M/s Shree Ambay Forgings Private Limited is for expansion in the production capacity of M.S ingots from 7200 MT/annum to 23750 MT/annum. The members observed that the applicant unit may be required to take permission from the Ground Water Officers appointed under the Goa Ground Water Regulation Act, 2002, for construction of bore wells or utilization of the ground water in the area.

The members suggested that the unit should submit their plans for rain water harvesting and re-charge of wells along with designs to the Water Resource Department for scrutiny and approval.

The members approved the proposal of M/s Shree Ambay Forgings Private Limited, Plot no. 343, Kundaim Industrial Estate, Kundaim, Goa, for Consent to Establish (NOC) under the Water Act and the Air Act (expansion), subject to obtaining approval from the State HPCC and subject to the implementation of rain water harvesting and ground water recharge.

Agenda Item no. 13

Decision on Applications for Renewal of Consent to Operate under the Air Act and the Water Act submitted by Mining units, presently pending with the Board .”

While discussing on this matter, it was informed that the Ld. Advocate General, State of Goa had submitted his professional opinion with regard to the following issues:

- (i) excess production;
- (ii) validity of Environmental Clearance;
- (iii) Chief Wild Life Warden approval and Forest clearance

The members were informed that at present there were 107 applications pending before the Board for grant of Renewal of Consent under the Water Act and the Air Act. It was informed that the Board should restrict itself in terms of the Water Act and the Air Act.

While discussing on this matter, it was clarified that the Ld. Advocate General, State of Goa, had explicitly stated as under:

‘In so far as the Goa State Pollution Control Board is concerned, its decision to grant, suspend, withhold, revoke, cancel or renew, is required to be taken considering the matters which are relevant to and material for the purpose of the Air Act and the Water Act; matters dealing with pollution, prevention, control, monitoring, equipment installation etc. The Pollution Control Board is thus concerned with matters dealing with and arising under the Provisions of the Air and Water Acts. Compliance or non-compliance with the

conditions imposed by the Board is a matter within the functions of the Board; however, the Board is not required to withhold its Consent or refuse to renew any Consent merely because there is a delay in grant of Permission / Clearances / N.O.C by another Authority or Department (except in matters of forest in view of the Provisions of the Forest Conservation Act). No party can commence mining operations unless all Permissions are obtained. It is therefore essential that the Pollution Control Board may add a Rider to its Permission / Consent that this Consent alone will not entitle the party to operate the Mining Concession unless and until all other Permissions as required in Law are obtained.'

Chairman informed the members that the Government of Goa vide their Order dated 10th September, 2012, had suspended all the mining operations in the State of Goa and as such, at present there was no mining operation taking place at any of the mines.

Chairman further informed the members that the Board had compiled information regarding the pending applications for Renewal of Consents under the Water Act and the Air Act and the same was shown from pages 149 to 204 of the Agenda Notes.

He further informed that there were three categories of applications pending before the Board:

- a. Those applications that were clear in all respects;
- b. Those applications that did not have clearances under the Forest (Conservation) Act and Chief Wild Life Warden.
- c. Those applications that were presently being heard by the Board with respect to:
 - i. Validity of Environmental Clearance.
 - ii. Excess production

The Board deliberated this issue at length and resolved:

'(a) To grant Renewal of Consent to Operate under the Water Act and the Air Act to those mines, which had all the requisite clearances'.

(b) Resolved further that all the applications that do not have the clearances under the Forest (Conservation) Act and Chief Wild Life Warden be rejected forthwith.

(c) Further resolved that those applications which were being heard by the Chairman, Goa State Pollution Control Board in matters related to (i) validity of Environmental Clearance and (ii) excess production; be decided on case to case basis after the Chairman completes the procedure of hearing each applicant individually.'

Table Item no. 1

Files cleared by the Technical Advisory Committee of the Board during its meetings held from 03/04/2012 to 21/09/2012 and the files cleared by the Chairman (Green category files) through XGN mode.

The members perused and noted the same.

III. With the permission of the Chair, the following were discussed:

- a. The members informed that with the expansion of the hotel / additional of rooms/ industry, the existing effluent treatment plant installed at their units should be upgraded to cater to the expansion capacities and the same should be informed to the Board accordingly. The members also brought to the notice of the Chairman that the springs in Keserval have gone dry and the water bodies have been

polluted. A request was made to the Chairman to carry out a study of the springs in Keserval to study the effect of pollution.

- b. The members informed that the Common Hazardous Waste, Treatment, Storage and Disposal Facility at Dharbandora will pollute the Opa aquifer which is a drinking water source to the people of Goa and the same should be relocated.
- c. The members may a strong demand for installation of a Bio-medical waste incinerator in each Taluka, as the medical fraternity is finding it difficult to dispose its waste at the lone incinerator at the Goa Medical College Hospital, Bambolim.
- d. The Chief Engineer, Water Resource Department suggested that when the officials of the Board inspect the mining units, officials of the Ground Water and the Canal Irrigation be also constituted to accompany the inspecting team in order to assess the water body.
- e. It was suggested that an inspection of mines be carried out with the Board members to know the actual facts at the mine sites, as most of the Board members are from the coastal belts.
- f. The members requested the Chairman to arrange for an Orientation programme on the functions and working of the Board. The Chairman in consultation with the members fixed 26th October, 2012 at 3.00 pm for the conduct of the programme.

105th MEETING OF THE BOARD

In the 105th Meeting, the Board took the following decisions:

Agenda Item No. 1

Confirmation of the minutes of the 104th meeting of the Goa State Pollution Control Board held on 25th September, 2012.

While discussing the minutes of the meeting, Chairman explained that the Board had decided to establish a new premises at a Central location for the State of Goa and accordingly a letter was written to the Managing Director, Goa Industrial Development Corporation, requesting for land admeasuring around 10,000 sq. mtrs. at Verna Industrial Estate. He further informed that the Board was awaiting a response in this regard.

The members perused and confirmed the minutes of the 104th meeting of the Board held on 25/09/2012, so as to enter the same in the minutes book.

Agenda Item no. 2

Follow up action on the decision taken at the 104th Meeting of the Board.

Agenda item no. 9 - Application of M/s Mabpharm Private Limited, Plot no. 147/B, Verna Industrial Estate, Verna Goa for Consent to Establish (NOC) under the Water Act and the Air Act (expansion)

The application of M/s Mabpharm Private Limited was discussed at the 104th meeting of the Board held on 25/09/2012 and the members had requested for details in respect of solid waste, its treatment and disposal. The unit has now submitted the said details and the application is now placed before the Board.

The Chairman informed the members that the proposal of M/s Mabpharm Private Limited is for expansion of bio-chemical pharmaceutical preparations i.e (Monoclonal Antibody – MAB 2, MAB 3, MAB 4 and MAB 5 with a capacity of 45-75 vials/day respectively. The members observed that the applicant unit may be required to take permission from the Ground Water Officers appointed under the Goa Ground Water Regulation Act, 2002, for construction of bore wells or utilization of the ground water in the area.

The members suggested that the unit should submit their plans for rain water harvesting and re-charge of wells along with designs to the Water Resource Department for scrutiny and approval.

The members approved the proposal of Application of M/s Mabpharm Private Limited, Plot no. 147/B, Verna Industrial Estate, Verna Goa, for Consent to Establish (NOC) under the Water Act and the Air Act (expansion), subject to obtaining approval from the State HPCC and subject to the implementation of rain water harvesting and ground water recharge.

Agenda Item no. 3

Application of M/s Sesa Goa Limited, Plot no. S-30 (Part), 43/1, 27 (Part), Amona Village, Amona Goa, for Consent to Operate under the Water Act and the Air Act for operation of the Sinter Plant.

The Chairman informed the members that the Ministry of Environment and Forests, Govt. of India, has accorded Environmental Clearance to the proposal of M/s Sesa Goa Limited for operation of Sinter plant (2 MTPA) vide their letter dated J-11011/946/2007-IA-II(I) dated 03/06/2009.

The members noted that the unit shall make provisions for rain water harvesting and re-charging of wells, within their premises, so as to recharge the ground water aquifer, which has been depleted. The members observed that the applicant unit may be required to take permission from the Ground Water Officers appointed under the Goa Ground Water Regulation Act, 2002, for construction of bore wells or utilization of the ground water in the area.

The members suggested that the unit should submit their plans for rain water harvesting and re-charge of wells along with designs to the Water Resource Department for scrutiny and approval.

The members approved the proposal for M/s Sesa Goa Limited, Plot no. S-30 (part), 43/1, 27 (Part), Amona Village, Amona, Goa for Consent to Operate under the Water Act and the Air Act for operation of the Sinter plant, subject to the implementation of rain water harvesting and ground water recharge.

Agenda Item no. 4

Application of M/s Colorcon Asia Private Ltd., Plot no. M-14 to M-18, Verna Industrial Estate, Verna, Salcete Goa, for Consent to Establish under the Water Air and the Air Act (expansion).

The Chairman informed the members that the State's HPCC has cleared the proposal of M/s Colorcon Asia Private Limited in principle for regularizing the production capacities of 999.89 MT/annum for the manufacture of dry dispersion, film coating material, lake colours, trading of excipients and allied services for pharmaceutical industries from the initially approved 500 MT/annum and proposed further expansion in production capacity of 5500 MT/annum totalling it to 6500 MT/annum. The HPCC has cleared the above proposal with a condition that the unit shall make provisions for rain water harvesting and re-charging of wells, within their premises, so as to recharge the ground water aquifer, which has been depleted. The members observed that the applicant unit may be required to take permission from the Ground Water Officers appointed under the Goa Ground Water Regulation Act, 2002, for construction of bore wells or utilization of the ground water in the area.

The members suggested that the unit should submit their plans for rain water harvesting and re-charge of wells along with designs to the Water Resource Department for scrutiny and approval.

The members approved the proposal of M/s Colorcon Asia Private Ltd., Plot no. M-14 to M-18, Verna Industrial Estate, Verna, Salcete Goa, for Consent to Establish under the Water Air and the Air Act (expansion) as approved by the HPCC and subject to the implementation of rain water harvesting and ground water recharge.

Agenda Item no. 5

Application of M/s Nestle India Limited, Survey no. 3, 4/7(Part), 11(Part), 13(Part), 34(Part) and 136 (Part), Maulinguem, Bicholim Goa, for Consent to Operate under the Water Act and the Air Act (expansion).

The Chairman informed the members that the State's HPCC has cleared the proposal of M/s Nestle India Limited in principle for increase in the manufacturing capacity of soups to a proposed 7250 tons/annum. The HPCC has cleared the above proposal with a condition that the unit shall make provisions for rain water harvesting and re-charging of wells, within their premises, so as to recharge the ground water aquifer, which has been depleted. The members observed that the applicant unit may be required to take permission from the Ground Water Officers appointed under the Goa Ground Water Regulation Act, 2002, for construction of bore wells or utilization of the ground water in the area.

The members suggested that the unit should submit their plans for rain water harvesting and re-charge of wells along with designs to the Water Resource Department for scrutiny and approval.

The members approved the proposal of M/s Nestle India Limited, Survey no. 3, 4/7(Part), 11(Part), 13(Part), 34(Part) and 136 (Part), Maulinguem, Bicholim Goa, for Consent to Operate under the Water Act and the Air Act (expansion), as approved by the HPCC and subject to the implementation of rain water harvesting and ground water recharge.

Agenda Item no. 6

Application of M/s Glenmark Generics Limited, Plot no. S-9, Colvale Industrial Estate, Bardez Goa, for Consent to Operate under the Water Act and the Air Act (expansion).

The Chairman informed the members that the State's HPCC has cleared the proposal of M/s Glenmark Generics Limited in principle for increase in the production capacity of tablets 30 million/day. The HPCC has cleared the above proposal with a condition that the unit shall make provisions for rain water harvesting and re-charging of wells, within their premises, so as to recharge the ground water aquifer, which has been depleted. The members observed that the applicant unit may be required to take permission from the Ground Water Officers appointed under the Goa Ground Water Regulation Act, 2002, for construction of bore wells or utilization of the ground water in the area.

The members suggested that the unit should submit their plans for rain water harvesting and re-charge of wells along with designs to the Water Resource Department for scrutiny and approval.

The members approved the proposal of M/s Glenmark Generics Limited, Plot no. S-9, Colvale Industrial Estate, Bardez Goa, for Consent to Operate under the Water Act and the Air Act (expansion) as approved by the HPCC and subject to the implementation of rain water harvesting and ground water recharge.

Agenda Item no. 7

Application of M/s Universal Cables Limited, Plot no. L-58 to L-60, Verna Industrial Estate, Salcete Goa, for Consent to Establish (NOC) under the Water Act and the Air Act.

The Chairman informed the members that the State's HPCC has cleared the proposal of M/s Universal Cables Limited in principle for recommencing the manufacturing activities of insulated wires and cables including optical fibre cables with a capacity of 1,00,000 lakh crore kms/annum alongwith requirement of water of 37 cu.m/day and power load of 1500 KVA. The HPCC has cleared the above proposal with a condition that the unit shall make provisions for rain water harvesting and re-charging of wells, within their premises, so as to recharge the ground water aquifer, which has been depleted. The members observed that the applicant unit may be required to take permission from the Ground Water Officers appointed under the Goa Ground Water Regulation Act, 2002, for construction of bore wells or utilization of the ground water in the area.

The members suggested that the unit should submit their plans for rain water harvesting and recharge of wells along with designs to the Water Resource Department for scrutiny and approval.

The members approved the proposal of M/s Universal Cables Limited, Plot no. L-58 to L-60, Verna Industrial Estate, Salcete Goa, for Consent to Establish (NOC) under the Water Act and the Air Act, as approved by the HPCC and subject to the implementation of rain water harvesting and ground water recharge.

Agenda Item no. 8

Categorization of industries as recommended by the Central Pollution Control Board.

The Chairman informed the members that the previous Board had carried out the task of categorising the industries under the Chairmanship of the Shri Sanjit Rodrigues, the Board Member. The same was approved by the Board and was forwarded to the State Government, which was subsequently notified in Official Gazette series I dated 14th July, 2011.

Further, the Chairman informed the members that the Central Pollution Control Board has issued Directions dated 14/09/2012 under section 18(i) (b) of the Water (Prevention and Control of Pollution) Act, 1974 for classification of Industries based on the recommendations of the Working Group constituted and approved in the 57th Conference of the Chairmen and Member Secretary's of State Pollution Control Board and Pollution Control Committees held on 15/09/2011, so as to maintain uniformity in categorisation of Industries as Red, Orange and Green.

The categorisation as prepared by the Working Group constituted during the 57th Conference of the Chairmen and Member Secretary's of State Pollution Control Board's and Pollution Control Committees was perused and approved by the Members. It was further decided to forward this approved classification of Industries to the Department of Science, Technology & Environment, for issue of a suitable Notification.

Table Item no. 1

(a) Decision of the Chairman, GSPCB regarding issues excess production of ore by the mining units and validity of Environmental Clearance granted by the Ministry of Environment and Forests, Govt. of India to the mining units.

Decision of the Chairman with regard to excess production of mineral ore by mine units.

Chairman informed the members that subsequent to the directions of the Hon. High Court of Bombay at Goa vide order dated 06/03/2012, the Board conducted personal hearings of the mines with regard to the excess production of the mineral ore by the mine units.

The Order dated 01/011/2012 in this regard passed by the Chairman was placed before the Members for perusal. The same was approved to be served on the mining companies.

(b) Decision of the Chairman with regard to validity of Environmental Clearance.

Chairman informed the members that subsequent to the directions of the Hon. High Court of Bombay at Goa vide order dated 06/03/2012, the Board conducted personal hearings of the mines with regard to the validity of Environmental Clearance since the Notification of 1994 states the validity of Environmental Clearance is for 5 years and the Notification of 2006 states the validity for 30 years.

The Order dated 01/11/2012 passed by the Chairman was placed before the Members for perusal. The same was approved to be served on the mining companies.

Chairman further informed the members that Consent to Operate of One hundred and seven mining units stood expired as on 31st July, 2012 and that the mining companies have now applied for renewal of their Consents to Operate. It was further informed to the members that there is a deeming provision in the Water (Prevention and Control of Pollution) Act, 1974 and under the Air (Prevention and Control of Pollution) Act, 1981, that the applications for Consents have to be processed within the stipulated 120 days failing which the Consent is deemed to be granted. It was further informed that the Hon. Supreme Court had ordered that all the mining operation in the State of Goa be stopped.

After deliberation and in light of the Order passed by the Hon. Supreme Court, the Members decided that the mining companies be informed that the applications could not be processed at this stage and they could apply for Consent to Operate once the order of the Hon. Supreme Court is revoked.

It was further resolved that grant of Consent to Establish / Consent to Operate / Renewal under the Air (Prevention and Control of Pollution) Act, 1981 and under the Water (Prevention and Control of Pollution) Act, 1974 to ancillary activities such as beneficiation plants, loading and unloading facilities / jetties, dry screening plants, stack yards etc. should be kept in abeyance until the matter is resolved by the Hon. Supreme Court and the State Govt.

Chairman informed the members that since the mining activity has ceased, it was an appropriate time to conduct a base line survey for ambient air quality parameters. After discussions, it was approved that the Base line data for ambient air quality be gathered at strategic location in the mining belt.

Table Item no. 2

Purchase of Instrument (Electronic Micro-balance) for measurement of PM^{2.5} in ambient air.

Chairman informed the members that as per the recommendations of the Central Pollution Control Board, the Board is required to carry out monitoring of PM^{2.5} and an instrument (Electronic Micro-balance) is required to be purchased by the Board. Further, it was stated that the Board is a recognised under the National Accreditation Board for Testing and Calibration Laboratories and as such, continuous modernization and removal of obsolesce is essential.

Chairman further informed the members that the instrument proposed to be procured was estimated to cost Rs. 20 lakhs and there was no Budget provision made for the financial year 2012-13, for such a purchase.

The Board discussed this proposal in detail and agreed that monitoring equipments need to be procured by the laboratory of the Board, so that advance tests for air and water quality could be conducted. It was further approved that the proposed Electronic Micro-balance be procured from the Board funds after following the laid down procedures.

III. With the permission of the Chair, the following were discussed:

a. The members stated that with the increasing number of residential housing complexes, the septic tank and the soak pit installed by them is inadequate to contain the quantity of sewage generated by them, as such sewage is being diverted in the nullahs or in the open thereby causing nuisance to the public and health hazards. In this regard it was decided that an awareness meeting be conducted by the Board, Taluka wise with the Sarpanch, Secretary, Panchas of the concerned Village Panchayat and the Health Officer of the respective Urban Health Centre / Primary Health Centre to create awareness among them in dealing with such cases.

b. It was also put forth before the members regarding the disposal of solid waste generated by the respective Village Panchayats and the mode of disposal for the same. Dr. Pramod Sawant, Member informed the Board that a system of composting of waste is being carried out at Viridi in Sattari Taluka, where all the non biodegradable waste is used for production of bio-gas. The members suggested that the Panchayats could be made aware of such a technique at the proposed awareness programme.

106th MEETING OF THE BOARD

In the 106th Meeting, the Board took the following decisions:

Agenda Item No. 1

Confirmation of the minutes of the 105th meeting (Special meeting) of the Goa State Pollution Control Board held on 1st November, 2012.

While discussing the minutes it was informed that Consent to Establish under the Water Act and the Air Act to M/s Mabpharma Private Limited, Plot no. 147/B, Verna Industrial Estate, Verna Goa, was held in abeyance since the approval from the State High Powered Coordination Committee was awaited.

Chairman informed the members that as per Table Item no. 1 (b), it was recorded that the grant of Consent to Establish, Operate and Renewal under the Air Act and the Water Act to ancillary activities, such as beneficiation plants, loading and unloading facilities, jetties, dry screening plants, stack yards etc. be kept in abeyance until the matter is resolved by the Hon. Supreme Court and the State Government.

The Chairman further informed that the intention of the Board was not to process the applications, of all the ancillary activities as mentioned above, but to return the applications like wise of the mining units. Hence, in view of the said discrepancies, the minutes of the 105th meeting (Table item no. 1(b), the last but one para of the minutes be read as follows:

“It was further resolved that grant of Consent to Establish / Consent to Operate / Renewal under the Air (Prevention and Control of Pollution) Act, 1981 and under the Water (Prevention and Control of Pollution) Act, 1974 to ancillary activities such as beneficiation plants, loading and unloading facilities / jetties, dry screening plants, stack yard etc. cannot be processed until the matter is resolved by the Hon. Supreme Court and the State Government. Further, it was resolved that such applications could be scrutinised afresh on such resolution.’

The members perused and confirmed the minutes of the 105th meeting of the Board held on 01/11/2012, so as to enter the same in the minutes book.

Agenda Item no. 2

Follow up action on the decision taken at the 105th Meeting (Special meeting) of the Board.

Agenda item no. 3 – The members noted that Consent to Operate under the Water Act and the Air Act has been issued to M/s Sesa Goa Limited, Plot no. S-30 (Part), 43/1, 27 (Part), Amona Village, Amona Goa, for operation of their Sinter plant.

Agenda item no. 4 – The members noted that Consent to Establish under the Water Act and the Air Act has been issued to M/s Colorcon Asia Private Limited, Plot no. M-14 to M-18, Verna Industrial Estate, Verna, Salcete Goa for expansion in their production capacities.

Agenda item no. 5 - The members noted that Consent to Operate under the Water Act and the Air Act has been issued to M/s Nestle India Limited, Survey no. 3, 4/7(Part), 11(Part), 13 (Part), 34 (Part) and 136 (part), Maulinguem, Bicholim, Goa for increase in the manufacturing capacities of soups.

Agenda item no. 6 - The members noted that Consent to Operate under the Water Act and the Air Act has been issued to M/s Glenmark Generics Limited, Plot no. S-9, Colvale Industrial Estate, Bardez Goa for increase in the production capacities of tablets.

Agenda item no. 7 - The members noted that Consent to Establish under the Water Act and the Air Act has been issued to M/s Universal Cables Limited, Plot no. L-58 to L-60, Verna Industrial Estate for increase in the production capacities insulated wires and cables including optical fibre cables.

Agenda Item no. 8 – The members noted that the proposal for categorization of industries as recommended by Central Pollution Control Board has been forwarded to the Director, Department of Science, Technology & Environment, for issue of Notification.

Table Item no. 1(a) – The members noted that mining companies have been served with order of the Chairman with regard to excess production of the mineral ore by the mining units.

Agenda item no. 3

Approval of the Revised Budget Estimates for the financial year 2012-2013 and Budget Estimate's of the Goa State Pollution Control Board for the financial year 2013-2014.

Chairman placed before the members the Revised Budget Estimate for the financial year 2012-2013 and Budget Estimate for the financial year 2013-2014 and informed that the budget administrative expenditure for 2013-2014 was proposed at Rs. 2347.70 lakhs. Chairman also informed that an amount of Rs. 520 lakhs has been provided for salaries and related expenditure. Chairman further pointed out that an amount of Rs. 350 lakhs has been provided for office machinery and equipment including laboratory expenditure. To a pointed question, it was informed that it is estimated that an amount of Rs. 1015 lakhs would be available from the Central Pollution Control Board and Ministry of Environment and Forests, towards purchases of equipments as well as towards share of Water cess and reimbursement of expenditure towards MINARS and AAQM programme.

After detailed discussions, the Revised Budget Estimates for the financial year 2012-2013 and Budget Estimates of the Goa State Pollution Control Board for the financial year 2013-2014 was approved. It was resolved to forward the same to the Department of Science, Technology & Environment, Govt. of Goa.

Agenda Item no. 4

a. Adoption of the Audit Report of the Board for the financial year 2010-2011.

The members perused the Audit Report for the financial year 2010-2011 submitted by Govt. appointed auditor M/s Ketkar & Saripalle, Chartered Accountants and thereafter passed the following resolution unanimously:

“RESOLVED THAT Receipts and Payments, Income and Expenditure Account and the Balance sheet together with notes thereon for the financial year ended on 31st March, 2011 be and are hereby approved.

RESOLVED FURTHER THAT the Chairman, the Member Secretary, the Accounts cum Administrative Officer are hereby authorised to sign the Audited Annual Accounts of the Goa State Pollution Control Board jointly.”

b. Payment of fees to the Auditor

The members perused the Agenda notes accepted the proposal for payment of Audit fees amounting to Rs. 60,000/- plus service tax @ 12.36% and further the request for payment of an additional payment of

Rs. 8,000/- only, as travelling expenses, as per the amount mentioned in the bill. The members approved the total bill amounting to Rs. 75,416/- of M/s Ketkar & Saripalle, Chartered Accountants.

Agenda Item no. 5

Appointment of two Legal Assistants in the Board on contract basis.

The members perused the agenda item, wherein it was proposed to appoint two Legal Assistants on contract basis on a consolidated amount of Rs. 8500/- per month, initially for a period of four months (extendable). The members noted that as per Rule 19 of the Goa Water (Prevention and Control of Pollution) Rules, 1988, Chairman has the authority to make appointment to the posts, the maximum pay of which does not exceed Rs. 8500/- per month provided such appointments are reported to the Board at the next meeting.

Chairman informed the members that it was difficult to recruit professional staff who are experienced for an amount of Rs. 8,500/- per month. He further informed that it would be proper if any amount of Rs. 15,000/- was paid per month to the newly appointed Legal Assistants. After detailed discussions, the members approved that a monthly consolidated salary of Rs. 15,000/- be paid to the newly recruited Legal Assistants on successful completion of four months observatory period and this matter to be decided by the Chairman.

Agenda Item no. 6

Appointment of Inquiry Officer and an Expert to investigate into the alleged irregularities in the appointment made by the Board to various posts.

Chairman informed the members that two candidates who had applied for positions at the GSPCB had filed a Petition before the Hon. High Court in respect to selections done to the various posts. Chairman informed that the first Petitioner, Dr. Alexandrina W. D'Souza, had filed a Petition challenging the appointment of Scientist 'C' in the Board stating that she was more qualified than the candidates who were selected. Chairman further informed that the selected candidates, Dr. Mohan Girap and Ms. Connie Fernandes were also Respondents to the Petition. He further informed that the matter was further argued in the Hon. Court by the selected candidates and the Court was pleased to dispose this Petition in favour of the appointed Scientists 'C'.

Chairman informed that the second Petitioner, Ms. Sahayadri Sinari had filed a case stating that there were alleged irregularities in the selection to the posts of Scientific Assistants, Senior Laboratory Assistant and Junior Laboratory Assistants to which she was an applicant. During arguments before the Hon. High Court, the Counsel for the Board, Ld. Advocate A.N.S. Nadkarni informed the Court that the Board would conduct an internal inquiry to look into the allegations of the Petitioner and take action accordingly. The Chairman further informed that Shri D.M. Borkar, Retired Joint Secretary (Personnel), Govt. of Goa, was appointed as Inquiry Officer and his report would be submitted to the Chairman within a few days. While discussing on this matter, the members resolved that a special meeting of the Board be called to discuss the report prepared and submitted by Shri D.M. Borkar for an appropriate decision on the matter.

Agenda item no. 7

Approval for extra expenditure incurred on sanctioned projects / purchases, if any.

The members perused the agenda notes and resolved as under:

'The Board hereby delegates powers to the Chairman, Goa State Pollution Control Board to pass and pay such expenses in respect of cost towards transportation / installation / maintenance of the instruments / equipments, conducting training programme, projects etc., if any from the Board funds in respect to extra expenditure incurred above the sanctioned amounts by the Central Pollution Control Board/ Ministry of Environment and Forests, Govt. of India.'

Agenda item no. 8

Reimbursement of expenditure incurred on sampling and analysis activities

The Chairman informed the members that the Board carries out inspections followed by sample collection in respect to Consent management, complaints, compliance monitoring for red category industries. Under the Consent management, fees towards inspection, sampling and analysis is included in the fees paid by the unit. In cases where the sample fails to meet the limits so prescribed, the unit is required to be charged towards sampling and analysis of the samples collected subsequently.

As regards to complaints received by the Board against a particular unit, it was proposed that if an unit is a defaulter, then the cost towards transportation/ sampling / monitoring / analysis are to be recovered from the defaulting unit. In case of other complaints, the cost may be borne by the Board.

The members decided to approve the proposal.

Agenda item no. 9

References received from the State Government:

a. Chairman informed the members that as per Official Gazette, Extraordinary no. 4, dated 17/09/2012 in respect to the Goa Minor Mineral Concession (Amendment) Rules, 2012, as per Rule 7(F) the Board is required to prepare a Regional Environmental Management Plan through a recognized person / authority for evolving a cluster approach to smaller quarrying leases Board, valid for a period of five years.

The members noted the same and authorised the Chairman to appoint a recognised person / authority for preparation of the Regional Environment Management Plan. The members were also of the opinion that the State Government be approached for obtaining financial assistance to carry out the said Regional Environment Management Plan.

b. Chairman informed the members that the Board receives complaints with respect to activities carried out by cement godowns/ fabrication / carpentry / automobile workshops etc. in residential areas. He further informed that these activities generate dust / noise pollution which creates nuisance to the residents in the vicinity. He further explained due to inherent difficulties it was not possible to suggest sprinkling of water in such activities, especially in respect to cement activities. President, Goa State Industries Association informed that closing such enterprises will lead to social – economic problems for the proprietors and suggested that the Board writes a letter to Goa Industrial Development Corporation stating the difficulties faced by it and suggesting that a Special Estate be created to re-locate such industries.

The matter was deliberated at length and it was resolved that a letter be written to Goa Industrial Development Corporation requesting for an appropriate location to re-locate such industries who were carrying out activities in residential areas.

Agenda item no. 10

Delegation of powers for prevention, control or abatement of pollution of streams and wells in the State of Goa.

Chairman informed the members that Notification dated 10/03/2000 has published a comprehensive programme for the prevention, control or abatement of pollution of streams and wells in the State of Goa, framed under section 17(a) of the Water (Prevention and Control of Pollution) Act, 1974 together with directions framed under section 33A, read with 41(2) and 49(1)(a). In this regard, the Board has delegated the powers to issue directions under the Water (Prevention and Control of Pollution) Act, 1974 to some of the Village Panchayats and Municipal Councils.

The members desired that the Notification be forwarded to all the Village Panchayats / Municipal Councils to obtain their views / suggestions on the said Notification for making it applicable to all the Village Panchayats and Municipal Councils in the State of Goa.

Agenda item no. 11

Procedure for allotment of Court cases to Legal Counsels of the Board.

Chairman informed the members that Board is made a Respondent in various matters in the Hon. High Court, Hon. Supreme Court, National Green Tribunal / Administrative Tribunal, and as such a Panel of Advocates is required to be appointed in order to streamline the allotment of cases and the fee structure.

After deliberations the following panel was proposed with the fee structure, with the following terms and conditions; effective from 01/04/2013.

(a) Panel of Advocates -

(i)	Advocate General A.N. S. Nadkarni
(ii)	Adv. Joaquim Godinho
(iii)	All Government and Additional Government Advocates on the Panel of the Government of Goa.
(iv)	All State Standing Counsels of the State of Goa in the Supreme Court of India or as amended from time to time.
(v)	Any other Advocate to be retained by the Member Secretary of the Board, as and when required for specific cases.

(b) Terms and conditions:

1.	Advocate General A.N.S. Nadkarni to be paid Rs. 7,000/- per effective hearing and Rs. 1,000/- per Affidavit settled in respect to his appearances before the various Courts on behalf of the Goa State Pollution Control Board.
2.	An Advocate on Record from the Panel of Board Advocates shall be requested to appear along with Advocate General A.N.S. Nadkarni as and when required. In this regard he shall be paid Rs. 1,000/- per effective hearing in respect to his appearances before various Courts on behalf of the Goa State Pollution Control Board.
3.	In the event an Advocate from the Panel of Board Advocates (other than Advocate General A.N.S. Nadkarni) are required to appear individually in matter specifically allotted to them by the Board they will be paid Rs. 2,500/- per effective hearing and Rs. 500/- per Affidavit settled in respect to his appearances before various Courts on behalf of the Goa State Pollution Control Board.
4.	All the Advocates appearing on behalf of the Board in matters before the Hon. Courts in New Delhi shall be paid a fee of Rs. 5,500/- per effective appearance before the Courts at New Delhi and shall also be entitled to a fee of Rs. 1,000/- for drafting of every Affidavit or Special Leave Petition.
5.	Payment of fees in all matters will be done only for an 'effective hearing' which will mean and include 'A hearing in which either one or both the parties involved in a case are heard by the Hon. Court. If the case is mentioned and adjourned by the Court, it would not constitute an effective hearing, but will be termed as a non effective hearing.' Further, if the matters are tagged together and are identical in nature which are heard together, payment of only one fee as per the date of hearing of that case / petition will be settled.

6.	Payment of professional fees to the aforesaid Advocates to be done only on submission of a duly certified certificate of appearance in a matter as issued by the Court before which the matter has been heard or on submission of a certified copy of the Order of the Court before which the matter has been heard indicating an effective hearing as also the appearance of the concerned Advocate.
7.	Bill towards professional fees of the Advocates in respect of matters in which they have appeared on behalf of the Board are required to be submitted every three months (i.e bills in respect of matters that an Advocate has appeared on behalf of the Board from January to March of a particular year is to be submitted in the first week of April of that year.
8.	All cases will be allotted to the Advocates on the Panel of Board Advocates by the Member Secretary of the Board, in consultation with Adv. General A.N.S. Nadkarni, by way of an appropriate order.
9.	Payment towards legal opinion as tendered to the Board Advocates shall be made by the Board at the discretion of the Chairman

Agenda item no. 12

Refund of fees of the mining units.

Chairman informed the members that the Goa Water (Prevention & Control of Pollution) (Amendment) Rules 2011 were amended vide Gazette Notification No.31/9/2010/STE-DIR/614 dated 11/08/2011 and the Goa Air (Prevention & Control of Pollution) (Amendment) Rules 2011 amended vide Gazette Notification No.31/9/2010/STE-DIR/615 dated 11/08/2011 in Series I, No. 19 respectively. Vide the said amendment the fees applicable for mining of Major minerals were enhanced. Aggrieved by the enhancement of fees, the mining companies filed various Writ Petitions in the Hon. High Court challenging the enhancement of fees for mining of major minerals. During the proceedings in the Hon. High Court, the State Government informed the Hon. High Court that they have decided to withdraw the Notification dated 05/08/2011 and issue a revised Notification.

In the Judgment dated 19/03/2012 the Hon. High Court has observed that “since the State intends to withdraw the Notification, the Notice of Demand issued by Goa State Pollution Control Board issued thereof could not survive and no recovery can be made in terms thereof”. The order further states that “it would be open for the Petitioners individually to apply of such amount as are paid in furtherance of the Notification and notice of demands”.

Some of the mining companies had deposited fees in accordance to the amended Notification and they are now required to be refunded.

After deliberations, the members decided that the fees paid by the following mining companies towards Consents to Operate be refunded.

Sr.	Name of the Mining Company	Amount to be refunded (Rs.)
1.	M/s. Chowgule and Company Pvt. Ltd. T.C No. 31/53, 41/56	1,99,73,000/-
2.	Shri Panduronga Timblo, Borga Iron Mine T.C No. 29/52, 34/50	2,79,57,000/-
3.	Shri Rajesh Timblo, Godbaem Ou Cuttiem, T.C No. 63/51	49,73,000/-
4.	Shri Ajit Vaicunth Kadnekar Chunimolo Mine T.C No. 75/52	1,79,56,000/-
5.	Shri Ajit Vaicunth Kadnekar	1,79,56,000/-

	Bateagal Iron Ore Mine, T.C No. 12/53	
6.	Shri Ramacanta V. S. Velingkar Corpadega Iron Ore Mine, T.C No. 24/57	89,87,500/-
7.	Shri V.D. Chowgule, Vaguriem Iron Ore Mine, T.C No. 93/1953	89,78,000/-
	TOTAL:	10,67,80,500/-

Agenda item no. 13

Enhancement of Authorization fees under the Bio-medical Waste (Management and Handling) Rules, 1988.

Chairman informed the members that the Board issues Authorization to the health care units under the Bio-medical Waste (Management and Handling) Rules, 1988, and a fee of Rs. 200/- is charged from the Health care units for issue / renewal of the Authorization and no late fee is charged from the defaulting health care units.

Since the fee charged by the Board is too low, as compared to other State Boards, a need was felt to revise the present fee structure of Rs. 200/-. Since different categories of health care units are covered under the Authorization, it was decided that the Board make a thorough scrutiny of the fees charged by other State Boards and accordingly devise a fee structure to be charged for Authorization / Renewal / late fee for health care units, pathological laboratories etc. in respect to their structure / waste generation etc. for obtaining Authorization under the Bio-medical Waste (Management and Handling) Rules, 1988.

It was decided to discuss this matter during the next Board meeting.

Agenda item no. 14

Revised fee structure for Red, Orange, Green category of Industries

At the outset Chairman requested the members to replace page no. 12 of the Agenda Notes, with a modified table which was handed over to the members during the meeting.

Chairman stated that the fee structure for Consent management requires to be revised in respect to validity of Consents for Large, Medium and Small Scale industries, as the Board intends to cover more industrial activities under its ambit, in order to generate revenue to the Board. The members perused the item and were of the opinion that the revised fee structure requires more scrutiny and deliberations. It was also suggested by the members that the fees should be in par with those charged by the neighbouring State Pollution Control Boards.

After deliberations it was decided to form a Sub-Committee to prepare a modified validity and fee structure comprising the following members:

1.	Director of Industries, Trade and Commerce	Chairman of the Sub-Committee
2.	Member Secretary, GSPCB	Member
3.	Mr. Shekhar Sardesai, President, Goa State Industries Association	Member
4.	Mr. Shrirang Jamble – Member of the Board	Member
5.	Mr. Sanjeev Joglekar, Asst. Env. Engg., GSPCB	Secretary

The Sub-Committee is required to submit its report to the Board by 30th April, 2013, so as to place the same before the next Board meeting.

Agenda item no. 15

Application of M/s Procter & Gamble Hygiene & Health Care Ltd. , Plot no. 173, 314, 315, Kundaim Industrial Estate, Kundaim Goa, for Consent to Operate (expansion) under the Air Act and Water Act.

The Chairman informed the members that the State's HPCC has cleared the proposal of M/s Procter & Gamble Hygiene & Health Care Ltd., for increase in the manufacturing capacity of sanitary napkins. The HPCC has cleared the above proposal with a condition that the unit shall make provisions for rain water harvesting and re-charging of wells, within their premises, so as to recharge the ground water aquifer, which has been depleted. The members observed that the applicant unit may be required to take permission from the Ground Water Officers appointed under the Goa Ground Water Regulation Act, 2002, for construction of bore wells or utilization of the ground water in the area.

The members suggested that the unit should submit their plans for rain water harvesting and re-charge of wells along with designs to the Water Resource Department for scrutiny and approval.

The members approved the proposal of M/s Procter & Gamble Hygiene & Health Care Ltd., Plot no. 173, 314, 315, Kundaim Industrial Estate, Kundaim Goa, for Consent to Operate (expansion) under the Air Act and Water Act, as approved by the HPCC and subject to the implementation of rain water harvesting and ground water recharge.

Agenda item no. 16

Installation of Surveillance cameras in the Board office.

Chairman informed the members that 131 no. of staff are employed by the Board to carry out its activities in Technical, Scientific, Legal, Accounts and Administration areas . He further informed that at present the Board occupies the first floor and part of the 4th floor of the Dempo Towers building. He further informed the members that it was required that Closed Circuit Television Cameras (CCTVC) were placed at strategic locations on both the floors so that security of the Board premises was maintained at all times.

He further informed that quotations for the supply of CCTV were obtained from 05 parties and an order was placed with M/s Armour Office Automation, Panaji, being the lowest quote for installation of 16 nos. of cameras on the 1st floor and 4th floor, amounting to Rs. Rs. 1,99,060/-.

The members discussed the matter and approved the same.

Agenda item no. 17

Resignation of Shri Pedro C. Fernandes, Driver of the Board.

Chairman informed the members that Shri Pedro C. Fernandes, was appointed to the post of Driver in the Board office with effect from July, 1998. Subsequently he availed Extraordinary leave from July, 2007 to 1st July, 2009 to proceed abroad to seek employment in United Kingdom, which was further extended upto 30/06/2012. He further informed that Shri Pedro, had vide his letter dated 20/08/2012 informed this office that he wishes to resign from the post of Driver in the Goa State Pollution Control Board with effect from 30/06/2012 and had requested that dues payable to him be settled. His resignation was accepted by the Board.

The members noted the resignation of Mr. Pedro C. Fernandes, Driver of this office from 30/06/2012 (B.N) and approved that all dues payable to him be released.

Agenda item no. 18

Vacating of the premises occupied by the Board on 7th floor of the building.

Chairman informed the members that the Technical staff of the Board were accommodated on the 7th floor of the Dempo Tower building and an annual rent of Rs. 50,000/- plus service tax as applicable and electricity charges of Rs. 4500/- was being paid. He further informed that the staff of the Water Resource Department who were undergoing training and were occupying space on the first floor were repatriated to their parent department and therefore space being available, the Technical staff from the 7th floor were shifted to the 1st floor. He further stated that the premises was no longer required by the Board and therefore the 7th floor office was vacated from 30th November, 2012

Agenda item no. 19

Files cleared by the Technical Advisory Committee of the Board during its meetings held from 22/09/2012 to 30/01/2013 and the files cleared by the Chairman (Green category files) through XGN mode.

The members perused and noted the same.

Table Item no. 01

Annual Report of the Board for the year 2011-2012.

The members perused the Agenda note and approved the Annual Report of the Board for the year 2011-2012, for forwarding the same to the Director, Department of Science, Technology & Environment for placing the same before the Goa Legislative Assembly.

Table Item no. 02

Application of M/s Himachal Futuristic Communication Ltd., Plot no. L-35, 36, 37, Verna Industrial Estate for Consent to Operate under the Water Act and the Act.

The Chairman informed the members that the State's HPCC has cleared the proposal of M/s Himachal Futuristic Communication Ltd., for expansion in the manufacturing capacities of optical fibre cables. The HPCC has cleared the above proposal with a condition that the unit shall make provisions for rain water harvesting and re-charging of wells, within their premises, so as to recharge the ground water aquifer, which has been depleted. The members observed that the applicant unit may be required to take permission from the Ground Water Officers appointed under the Goa Ground Water Regulation Act, 2002, for construction of bore wells or utilization of the ground water in the area.

The members suggested that the unit should submit their plans for rain water harvesting and re-charge of wells along with designs to the Water Resource Department for scrutiny and approval.

The members approved the proposal of M/s Himachal Futuristic Communication Ltd., Plot no. L-35, 36, 37, Verna Industrial Estate for Consent to Operate under the Water Act and the Act, for Consent to Operate (expansion) under the Air Act and Water Act, as approved by the HPCC and subject to the implementation of rain water harvesting and ground water recharge.

107th MEETING OF THE BOARD

In the 107th Meeting, the Board took the following decisions:

At the outset the Chairman welcomed all the members present for the 107th meeting (Special meeting) of the Goa State Pollution Control Board and stated that the meeting was called subsequent to the decision taken by the Board at its 106th meeting held on 11th February, 2013. The Chairman further stated that the meeting was called to discuss the issue regarding the selection and appointment of employees in the Board office to the post of Scientific Assistant, Senior Laboratory Assistant and Junior Laboratory Assistant. The Chairman further stated that the Board was in receipt of a complaint from Ms. Sahayadri S. Sinari, alleging

irregularities in the aforesaid process of selection and appointment. He further stated that Ms. Sinari has also preferred a Writ Petition before the Hon. High Court of Bombay at Goa, in this regard. He further stated that the Ld. Advocate A N S Nadkarni, appearing on behalf of the Board in the said matter, has submitted to the Hon. High Court, that the Board would inquire into the said complaint and would initiate necessary action in this regard if necessary.

The Chairman further informed the members that the Board had appointed Shri D.M. Borkar, Retd. Joint Secretary (Personnel) Government of Goa, as an Inquiry Officer to inquire into the allegations leveled by Ms. Sahayadri Sinari, and to submit a detailed Report in this regard to the Chairman. Subsequently the Board also appointed Prof. Jaime Afonso, B.E. (Met) M.M.S., as an expert to assist the Inquiry Officer to ascertain whether the documents/ certificates of experience and qualifications submitted by the candidates for the post of Scientific Assistant, Senior Laboratory Assistant and Junior Laboratory Assistant are relevant to the tasks and duties to be performed at the Goa State Pollution Control Board.

The Chairman placed before the members, the said Report of the Inquiry Officer which he said was a detailed and exhaustive assessment of the process of selection and appointment carried out by the Board in respect of the aforesaid posts. He also stated that the Inquiry Officer had submitted his findings and conclusions in this regard.

The members deliberated at length the issue of appointments made in the Board as reported by the Inquiry Officer and resolved that ' the Chairman discuss the report of the Inquiry Officer in detail with the Counsel of the Board, Ld. Advocate, A. N. S. Nadkarni. Further resolved that Chairman is authorized to decide on the present matter taking into account the views and advice given by the Counsel of the Board, Ld. Advocate A. N. S. Nadkarni. '

CHAPTER 4

COMMITTEES CONSTITUTED BY THE BOARD AND THEIR ACTIVITIES

4.1 TECHNICAL ADVISORY COMMITTEE

In order to develop uniformity in approach and to ensure timely clearance of the consent applications, Shri. Jose Manuel Noronha, Chairman of the Board constituted a Technical Committee comprising technically and scientifically qualified professionals. The Technical Advisory Committee re-constituted vide Order no.8/11/09-PCB/Vol.VIII/03 dated 09/10/2012 comprises of the following members:-

1. Shri. A.J.C. Afonso, BE (Met) M.M.S. Forro, St. Estevem, Ilhas Goa.
2. Dr. Savita Kerkar, Reader, Dept. of Marine Bio-Technology, Goa University, Bambolim
3. Dr. Xivanand Verlekar, Retd. Scientist – (Biologist) N.I.O, 606, Pinto Vaddo, Candolim, Bardez Goa
4. Mrs. A.A.B. Barretto, F W de Lima Fernandes, C-155, De Cunha Gonsalves Road, Mala – Fountainhas – Panaji Goa.
5. Dr. Mohan Girap, Scientist C, Goa State Pollution Control Board.
6. Ms. Connie Fernandes, Scientist C, Goa State Pollution Control Board.

The Committee held weekly meetings on every Monday at 4.00 pm in the Conference hall of the Board to scrutinize and make recommendations / comments / suggestions on the applications from industrial units received by the Board for Consent to Establish / Operate / Renewal of Consents under the Water and Air Acts, Authorizations under the Hazardous Waste Rules, Bio-medical Waste Rules, etc. (except those of Green category industries). The applications from green category industries were scrutinized by the technical and scientific sections of the Board and approved by the Chairman on recommendation by the Member Secretary for grant of Consents.

The recommendations of the Technical Advisory Committee meetings, in the form of Minutes, were placed before the Chairman for approval and on approval by Chairman; Consent Orders were issued by the Member Secretary.

4.2 PURCHASE COMMITTEE

Shri. Jose Manuel Noronha, Chairman reconstituted the Purchase Committee under the Scientific Section and Administrative Section vide Orders no.1/5/12-PCB/Vol.XV/673 dated 16/01/2013 and no.1/5/12-PCB/Vol.XV/6732 dated 18/01/2013 respectively. The committee for Scientific Section comprises the following members:-

1. Ms. Connie Fernandes, Scientist 'C', Goa State Pollution Control Board.
2. Accounts cum Administrative Officer, Goa State Pollution Control Board

3. Mrs. Lizette D'souza, Scientist 'F', National Institute of Oceanography.
4. Environmental Engineer, Goa State Pollution Control Board
5. Mrs. Francisca Pereira, Scientist 'B' Goa State Pollution Control Board
6. Mrs. Natalia Dias, Senior Law Officer, Goa State Pollution Control Board
7. Mr. Rajiv Nevgi, Industrialist, Shriram Sadan, Dattawadi, Mapusa, Goa

The committee for the Administrative Section comprises the following members:-

1. Environmental Engineer, Goa State Pollution Control Board.
2. Accounts cum Administrative Officer, Goa State Pollution Control Board
3. Mrs. Natalia Dias, Senior Law Officer, Goa State Pollution Control Board.
4. Office Superintendent, Goa State Pollution Control Board.

4.3 COMPLAINTS COMMITTEE

The present Board Constituted a Complaint Committee to scrutinize and take appropriate action on the complaints received by the Board. The Committee was constituted vide Order no.CH/GSPCB/JMN/12/04 dated 16/10/2013 and comprises the following members:

- | | |
|---|---------------|
| 1. Scientist 'C' |Member |
| 2. Senior Law Officer/Assistant Law Officer |Member |
| 3. Assistant Environmental Engineer |Convenor |

The Committee meets every Monday to screen and shortlist the complaints requiring action by the Board. These complaints are monitored by inspections and action deemed fit is initiated if required. Other cases not within the purview of the Board were forwarded to the respective departments for further needful action.

4.4 CONSTITUTION OF COMMITTEE ON PREVENTION OF SEXUAL HARASSMENT OF WOMEN AT WORKPLACE

The committee constituted on 06/06/2011 under the Chairmanship of Dr. Simon de Souza was in force during the year under report. vide Order no.CH/GSPCB/S.S/09/08 dated 06/06/2011 comprising of following members.

- | | |
|--|-------------|
| a. Mrs. Jenica Sequeira | Chairperson |
| Scientist 'B', Goa State Pollution Control Board | |
| b. Environmental Engineer, | Member |
| Goa State Pollution Control Board | |
| c. Accounts cum Administrative Officer, | Member |
| Goa State Pollution Control Board | |
| d. Mrs. Natalia Dias | Member |
| Assistant Law Officer, Goa State Pollution Control Board | |
| e. Representative from the Department of Science, Technology & Environment, Govt. of Goa | Member |

CHAPTER 5

MONITORING NETWORK FOR AIR AND WATER QUALITY

The Goa State Pollution Control Board monitors the air and water quality under the Central Pollution Control Board sponsored projects National Air Monitoring Programme (NAMP) and National Water Monitoring Programme (NWMP). The NAMP project covers 16 air quality monitoring locations within the State of Goa and the NWMP project covers 49 water quality monitoring locations within the State of Goa. The details of the projects are given as under.

5.1 National Air Monitoring Programme (NAMP)

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 16 locations within the state of Goa. The following are the 16 stations under the NAMP project.

1. Panaji Town, Near GSPCB Office
2. Vasco Town, Near Electricity Department
3. Near Fire Brigade Station, MPT
4. Assanora
5. Bicholim
6. Honda
7. Codli
8. Amona
9. Usgao
10. Curchorem
11. Sanguem
12. Tilamol-Quepem
13. Margao Town
14. Mapusa Town
15. Ponda Town
16. Kundaim Industrial Estate

The geographical locations of the 16 air quality monitoring stations are shown in the map presented in Figure 5.1. Out of the 16 stations, the Board operates 3 stations on its own, i.e., at Vasco, MPT- Mormugao and Panaji and the remaining 13 locations are outsourced to MoEF approved laboratories.

The Ambient Air samples at Panaji, Vasco and MPT are collected by Board officials at each station twice a week as per the standard norms for ambient air quality monitoring and parameters like RSPM, SPM, SO₂ and NO_x are analyzed. The ambient air quality data for these stations observed during the year are given in Annexure V. The analytical results show that all the above parameters are within the limits prescribed for ambient air quality for Vasco, MPT- Mormugao and Panaji,

The remaining 13 stations are operated by outsourcing to MoEF approved laboratories. The Ambient Air Quality at these locations is monitored as per the notification dated 18/11/2009 and parameters such as NO_x , SO_2 , PM_{10} and $\text{PM}_{2.5}$ are monitored on regular basis. The monthly averages of the ambient air quality data indicates that there is an increase in the level of respirable particulate matter (PM_{10} and $\text{PM}_{2.5}$) at some locations, however, the annual averages indicate that the particulate matter levels are within the limits.

Figure 5.1: Map of Goa showing the Ambient Air Quality Monitoring Stations under the National Air Monitoring Programme (NAMP)



5.2 National Water Quality Monitoring Programme (NWMP)

The Goa State Pollution Control Board monitors 49 water bodies throughout Goa under the Central Pollution Control Board sponsored project NWMP. The water bodies monitored include rivers, wells, canals, lake, reservoir and creek. Among the rivers, the estuarine rivers as well the sweet water rivers which form a part of the network for water intake points for water treatment plants for public water supply have been covered. Ground water sources (wells) located within the industrial estates are also part of this programme.

The 49 locations covered under this programme are distributed throughout Goa such that 27 stations are located in the North District and 22 are located in the South District

The following monitoring locations are in the North Goa District:

1. River Mandovi at Panaji
2. River Mandovi at Tonca-Marcela
3. River Khandepar at Opa, Ponda
4. River Madei at Dabose, Valpoi
5. River Valvanti at Sanquelim
6. River Assanora at Assanora
7. River Kalna at Chandel, Pernem
8. Cumberjua Canal, Corlim (Discharge point of Syngenta Ltd.)
9. River Mapusa on culvert on Mapusa-Panaji Highway
10. River Chapora near Alorna Fort, Pernem
11. River Bicholim, Barazan Nagar, Bicholim
12. Kundaim Industrial Estate (well of M/s Cadilla Health Care Ltd.)
13. Mayem Lake, Bicholim
14. Corlim Industrial Estate (well)
15. Pilerne Industrial Estate (well of M/s Unichem)
16. Harwale Waterfall
17. Borewell at aBethora Industrial Estate
18. River Tirecol at Pernem
19. River Chapora near Siolim Bridge
20. River Sinkerim, Candolim side
21. River Sinkerim, Near Ganpati Temple
22. River Mandovi at IFFI Jetty
23. River Mandovi, Near Hotel Marriott Resort
24. River Zuari at Madkaim Jetty
25. River Zuari at Borim Bridge
26. Carambolim Lake
27. Anjunem Dam

The following monitoring locations are in the South Goa District:

1. River Zuari at Cortalim
2. River Zuari at Panchwadi
3. River Talpona at Canacona
4. River Khandepar at Codli near bridge, u/s Opa water works, Sanguem
5. River Sal, Pazorkhoni, Cuncolim (nr culvert, Margao-Canacona National Highway)
6. River Kushawati nr bundh at Kevona, Rivona, Sanguem
7. River Sal nr Hotel Leela, Mobor, Cavelossim
8. Salaulim Reservoir at Salaulim, Sanguem
9. Creek at Dando Mollo Velsao, Mormugao
10. Agricultural Canal u/s of Cuncolim Industrial Estate (1Km from M/s Nicomet Industries Ltd.)
11. Agricultural Canal d/s of Cuncolim Industrial Estate (near railway bridge)
12. Verna Industrial Estate (well of M/s Cipla Ltd.)
13. Sancoale Industrial Estate (well)
14. M/s Zuari Industries Ltd., Zuari Nagar (well)
15. River Sal at Rumder
16. River Sal at Orlim
17. River Sal at Khareband
18. River Sal at Jakni Band

19. River Sal at Mungul
20. Raia Lake
21. Saipem Lake
22. Curtorim Lake

The total 49 locations are divided into two groups i.e., (i) 43 locations which are being monitored monthly and (ii) 6 locations which are monitored half yearly.

Four Hundred and fourteen samples were collected from all these water bodies and analyzed during the year (14 parameters during the regular monthly monitoring and 56 parameters during annual monitoring).

The analytical results indicate that although all the rivers satisfy the quality requirement of the designated best uses as recommended by Central Pollution Control Board, the coliform content is high in all the water bodies. The water quality data for the rivers observed during the year are given in Annexure III.

Figure 5.2 below is a map of Goa showing the water quality monitoring locations under National Water Monitoring Programme; MINARS. The monitoring locations are indicated as stars.

Figure 5.2: Map of Goa showing the Water Quality Monitoring locations under the National Water Monitoring Programme; MINARS



CHAPTER 6

PRESENT STATE OF ENVIRONMENT, ENVIRONMENTAL PROBLEMS AND COUNTER MEASURES

The Goa State Pollution Control Board faced some environmental issues with regard to air pollution due to mining related transportation activities, handling of dusty cargo in Vasco town by Mormugao Port Trust, etc. in the past. The Board conducted some studies with regard to these issues the details of the same are presented below.

6.1 Studies on the Trend of Ambient Air Quality in Goa

6.1.1 Ambient Air Quality in the Mining Areas of Goa

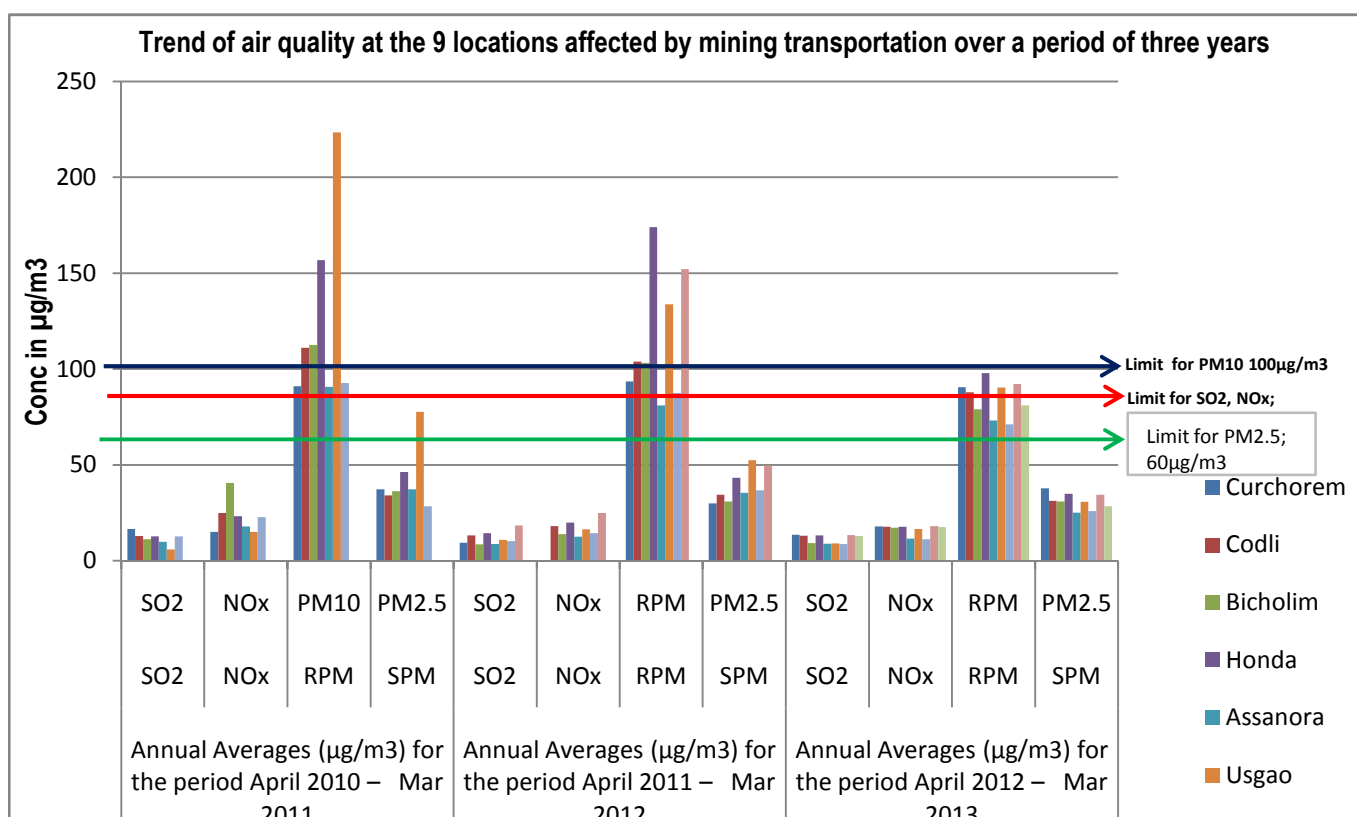
There are one hundred and forty one Environmental Clearances granted for iron ore /

manganese ore mines in Goa. The operation of mines and transportation of ore is done by trucks and barges (barge loading facilities on river banks). In addition, there are existing beneficiation plants which are operating within mining leases. New dry screening plants / crushing plants have been installed. Issues of dust pollution / air Pollution, damage to agricultural fields / orchards, congestion of roads are associated with such activities.

The Board is faced with the issue of pollution due to mining from the public from the affected areas; hence, the Board through the CPCB sponsored project NAMP initiated ambient air quality in areas affected due to mining transportation activities. The areas under the NAMP project in mining areas include Assanora, Bicholim, Honda, Codli, Amona, Usgao, Curchorem, Quepem and Sanguem. The NAMP in these mining transportation areas is in operation since the year 2010. The ambient air quality monitoring trend during the period 2010 upto March 2013 indicates that the particulate matter levels were very high (exceeding the permissible limits) during 2010-11 and 2011- 2012 at Codli, Bicholim, Honda and Usgao and at Tilamol-Quepem during 2011-12. However, it can be seen from the ambient air quality data during the period 2012-13 that the levels of particulate matter have come down to a great extent and are within the prescribed permissible limits. The following table shows the trend in air quality at the 9 locations for a period of 3 years.

Table 6.i: Trend status of Air Quality Monitoring Data for the period April 2009 – March 2010, April 2010 – March 2011, April 2011 – March 2012 and April 2012 – March 2013

Location	Annual Averages ($\mu\text{g}/\text{m}^3$) for the period April 2010 – Mar 2011				Annual Averages ($\mu\text{g}/\text{m}^3$) for the period April 2011 – Mar 2012				Annual Averages ($\mu\text{g}/\text{m}^3$) for the period April 2012 – Mar 2013			
	SO ₂	NO _x	PM ₁₀	PM _{2.5}	SO ₂	NO _x	RPM	PM _{2.5}	SO ₂	NO _x	RPM	PM _{2.5}
Curchorem	16.53	15.03	91.06	37.18	9.3	16.30	93.5	29.9	13.47	17.94	90.5	37.81
Codli	12.94	24.87	111.08	34.1	13.17	18	103.9	34.4	13.04	17.63	87.84	31.27
Bicholim	11.22	40.51	112.48	36.28	8.6	13.9	103.2	30.9	9.16	17.13	78.93	30.85
Honda	12.63	23.24	156.77	46.2	14.37	19.8	173.96	43.28	13.23	17.77	97.87	34.91
Assanora	9.86	17.95	90.75	37.32	8.69	12.55	80.94	35.36	8.8	11.5	73.14	25.08
Usgao	5.92	15.11	223.43	77.7	10.81	16.4	133.77	52.38	8.99	16.54	90.35	30.8
Amona	12.71	22.69	92.74	28.42	10.11	14.32	87.49	36.7	8.64	11.15	71.16	25.96
Tilamol-Quepem					18.4	24.8	152.1	49.59	13.38	17.97	92.14	34.48
Sanguem									12.92	17.61	81.02	28.45

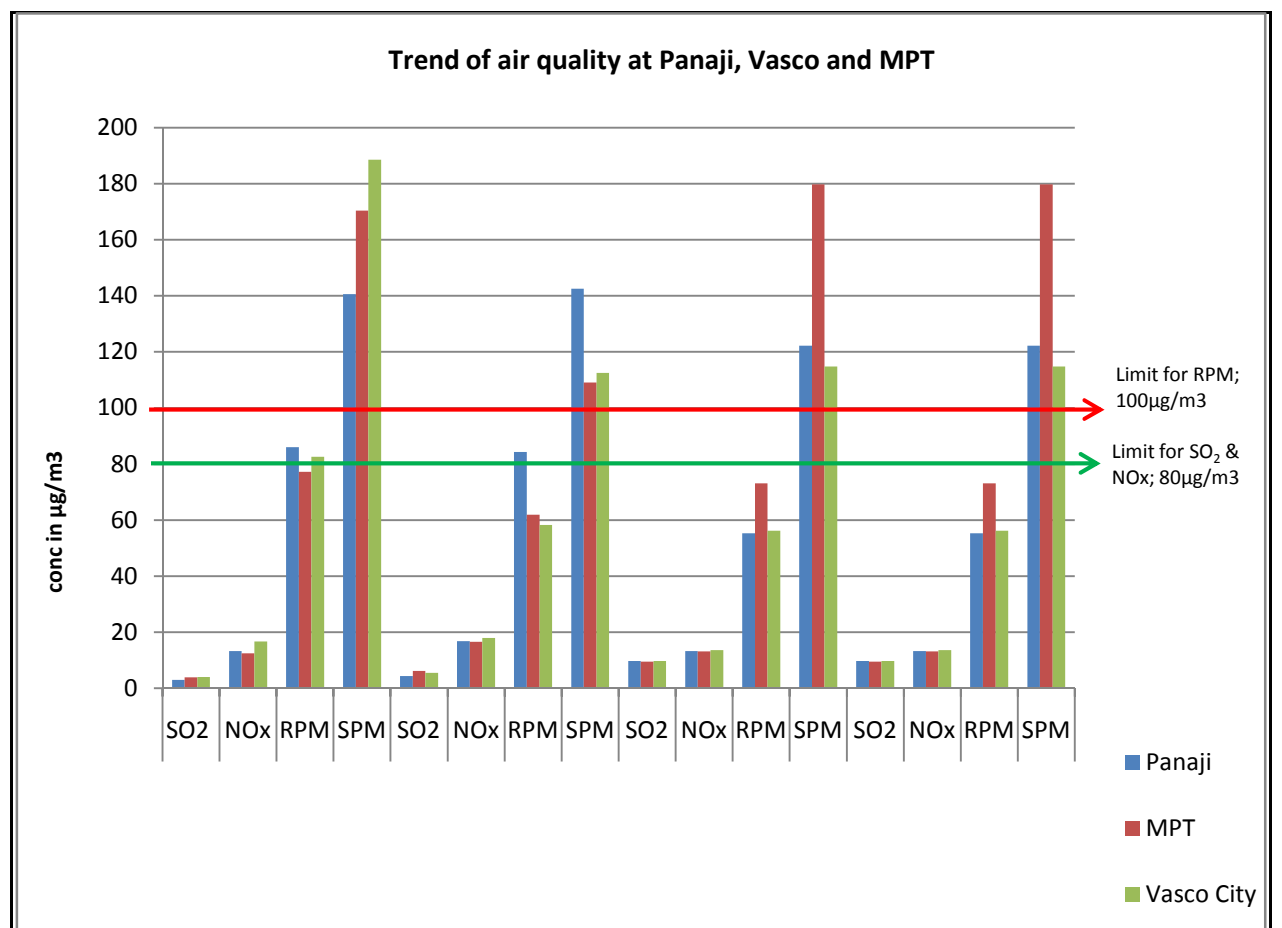


6.1.2 Ambient Air Quality in Other Areas of Goa

The Board is conducting ambient air quality monitoring at the following locations; viz; Panaji, Vasco, MPT area in Vasco, Mapusa, Margao, Ponda and Kundaim Industrial Estate. The Panaji, Vasco and MPT stations have been monitored for a long period, where as, monitoring at Vasco, Mapusa, Margao, Ponda and Kundaim Industrial Estate have been initiated since the year 2010. The monitoring data for Panaji, Vasco and MPT during the period 2009 upto March 2013 indicates that the concentration levels of RPM, SO₂ and NO_x are within the permissible limits, however, the trend indicates that the concentration levels of SO₂ although within limits are increasing slowly. In case of NO_x and RPM no particular trend can be perceived. The following table shows the trend in air quality at the 3 locations for a period of 4 years which is also represented graphically with bar chart.

Table-6.ii: Trend status of Air Quality Monitoring Data for the period April 2009 – March 2010, April 2010 – March 2011, April 2011 – March 2012 and April 2012 – March 2013

Location	Annual Averages (µg/m ³) for the period April 2009 – Mar 2010				Annual Averages (µg/m ³) for the period April 2010 – Mar 2011				Annual Averages (µg/m ³) for the period April 2011 – Mar 2012				Annual Averages (µg/m ³) for the period April 2012 – Mar 2013			
	SO ₂	NO _x	RPM	SPM	SO ₂	NO _x	RPM	SPM	SO ₂	NO _x	RPM	SPM	SO ₂	NO _x	RPM	SPM
Panaji	2.95	13.21	86.05	140.64	4.3	16.75	84.3	142.5	9.75	13.25	55.33	122.25	9.75	13.25	55.33	122.25
MPT	3.92	12.5	77.22	170.45	6.2	16.6	61.9	109.1	9.5	13.08	73.08	179.83	9.5	13.08	73.08	179.83
Vasco City	3.96	16.7	82.59	188.53	5.5	17.9	58.2	112.5	9.75	13.58	56.25	114.75	9.75	13.58	56.25	114.75



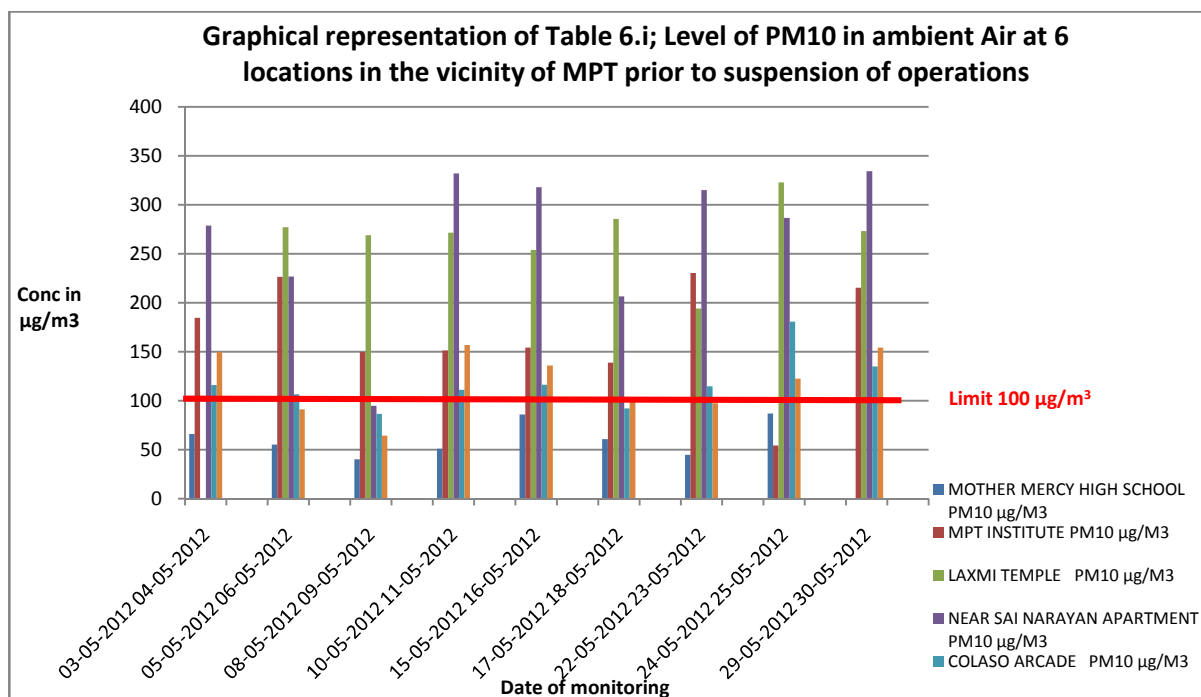
6.1.3 Ambient Air Quality Status in the Vicinity of MPT, Vasco

Study on Ambient Air Quality at 6 locations within the vicinity of MPT during the period November 2011 upto May 2012 during post suspension period

In the recent past, the Board was in receipt of complaints from citizens of Vasco regarding dust pollution in Vasco town as a result of coal/coke handling activities in MPT Port area. A Writ Petition to this effect was then filed in the Hon'ble High Court at Mumbai in Goa by the Citizens of Vasco alleging that coal handling operations at berth nos. 10 and 11 is resulting in serious air pollution in Vasco town. The Court directed NEERI to conduct a study of MPT in order to suggest measures to control pollution as alleged in the petition. NEERI conducted the said study and submitted a report to the Board. The Board had issued various directions to MPT to comply with certain measures as also the recommendations contained in the report of NEERI. The Board also regularly conducted ambient air quality monitoring to check the levels of dust pollution in the ambient air. The monitoring conducted in May 2012 is presented in the table and the graphical representation below.

Table 6.iii: Level of Particulate Matter (PM10) in ambient air at 6 locations in vicinity of MPT prior to suspension of operations

	MOTHER MERCY HIGH SCHOOL	MPT INSTITUTE	LAXMI TEMPLE	NEAR SAI NARAYAN APARTMENT	COLASO ARCADE	CALDEIRA ARCADE
Date of monitoring	PM10 µg/M ³	PM10 µg/M ³	PM10 µg/M ³	PM10 µg/M ³	PM10 µg/M ³	PM10 µg/M ³
03-05-2012	66.12	184.75	-	278.81	115.9	149.67
04-05-2012						
05-05-2012	55.19	226.51	277.27	226.64	106.49	91.14
06-05-2012						
08-05-2012	40.18	149.51	268.91	94.76	86.64	64.29
09-05-2012						
10-05-2012	51.08	151.33	271.57	332.11	110.98	156.87
11-05-2012						
15-05-2012	85.88	154.26	253.91	317.83	116.22	136.09
16-05-2012						
17-05-2012	60.77	138.8	285.46	206.39	92.31	103.3
18-05-2012						
22-05-2012	44.84	230.52	194.19	315.17	114.86	97.41
23-05-2012						
24-05-2012	86.79	54.32	322.87	286.73	180.7	122.61
25-05-2012						
29-05-2012	-	215.43	273.15	334.26	135.11	154.27
30-05-2012						



However, despite the regular follow-up with the MPT w.r.t. inspections / directions, it was observed that dust levels were not getting any lower. Hence, the board took the decision of suspending the activities at berths 10 & 11 of MPT. It was also decided to conduct AAQM at some of the strategic locations during this suspension period so as to generate base line data in absence of activities at berth 10 & 11. The directions for suspension of activities at berths 10 & 11 were issued on 23/09/2011.

During the suspension period, the Board conducted ambient air quality monitoring at the six locations which were selected by NEERI through an approved laboratory for a period of 4 days and subsequently the

Board conducted the monitoring on its own at two locations which are the closest in aerial distance to the activities at the berth 10 & 11. The details of the monitoring are presented in table II & III and graphical representations of the tables.

Table 6.iv: Levels of Particulate Matter (PM10) in Ambient Air at 6 locations in the vicinity of MPT during the suspension of operations at berths 10 & 11

Date of monitoring	MOTHER MERCY HIGH SCHOOL	MPT INSTITUTE	LAXMI TEMPLE	NEAR SAI NARAYAN APARTMENT	COLASO ARCADE	CALDEIRA ARCADE
	PM10 $\mu\text{g}/\text{M}^3$	PM10 $\mu\text{g}/\text{M}^3$	PM10 $\mu\text{g}/\text{M}^3$	PM10 $\mu\text{g}/\text{M}^3$	PM10 $\mu\text{g}/\text{M}^3$	PM10 $\mu\text{g}/\text{M}^3$
11/10/12 12/10/12	70.16	111.10	113.29	97.40	68.26	87.39
13/10/12 14/10/12	48.60	93.05	82.27	82.07	71.43	62.17
15/10/12 16/10/12	44.38	81.39	78.12	72.10	68.15	57.45
17/10/12 18/10/12	51.87	94.37	96.80	74.71	80.16	62.60
19/10/12 20/10/12	72.20	119.10	103.05	106.73	87.14	62.24

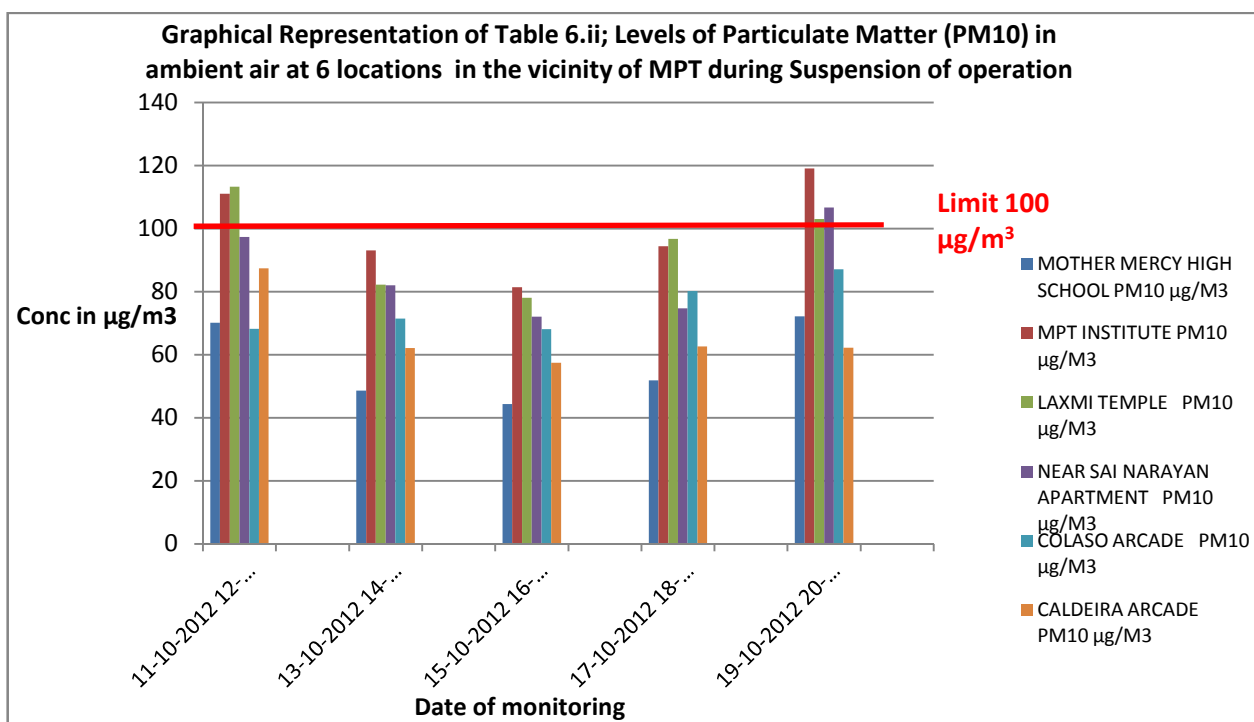


Table 6.v: Levels of Particulate Matter (PM10) in ambient air at MPT Institute and Laxmi Temple during suspension of operations at berths 10 & 11

Date of monitoring	MPT INSTITUTE	LAXMI TEMPLE (Sulabh Souchalay)
	PM10 $\mu\text{g}/\text{M}^3$ (24 HOURS AVERAGE)	
02/11/12	38.3	22
03/11/12	32	46.6
04/11/12	74.6	50.3
05/11/12	74.3	140.3*
06/11/12	111.3**	104.3**

07/11/12	89.6	92.6
12/11/12	54.3	100.5**
16/11/12	53	-
19/11/12	43.6	67
23/11/12	102**	55.6
26/11/12	67	48.6
30/11/12	51.3	67.6
05/12/12	44.6	58
07/12/12	36.0	47.3
10/12/12	63.3	88.3
14/12/12	37.6	63.8
17/12/12	60.3	61.3
21/12/12	66.3	71.6
24/12/12	62	81.3
28/12/12	92.3	76.3
02/01/13	56.3	83.0
04/01/13	65.3	111.0##
07/01/13	100.3#	77.0
11/01/13	81.45	73.4
14/01/13	68.2	71.1
18/01/13	63.2	79.2
21/01/13	67.3	73.1
25/01/13	77.2	66.0
28/01/13	61.5	74.1
01/02/13	79.91	56.13
06/02/13	70.14	63.15
80/02/13	54.0	113.2@
11/02/13	65.27	78.48
15/02/13	48.92	45.13
18/02/13	55.58	58.93
22/02/13	64.38	47.23
25/02/13	60.00	57.15
01/03/13	58.73	77.53

Remarks : * Stacking of Cargo from vessel into the yard at berth 10 & 11 of M/s Shraddh Ispat Ltd & M/s Ambey Metallic Ltd. on 05.11.12.

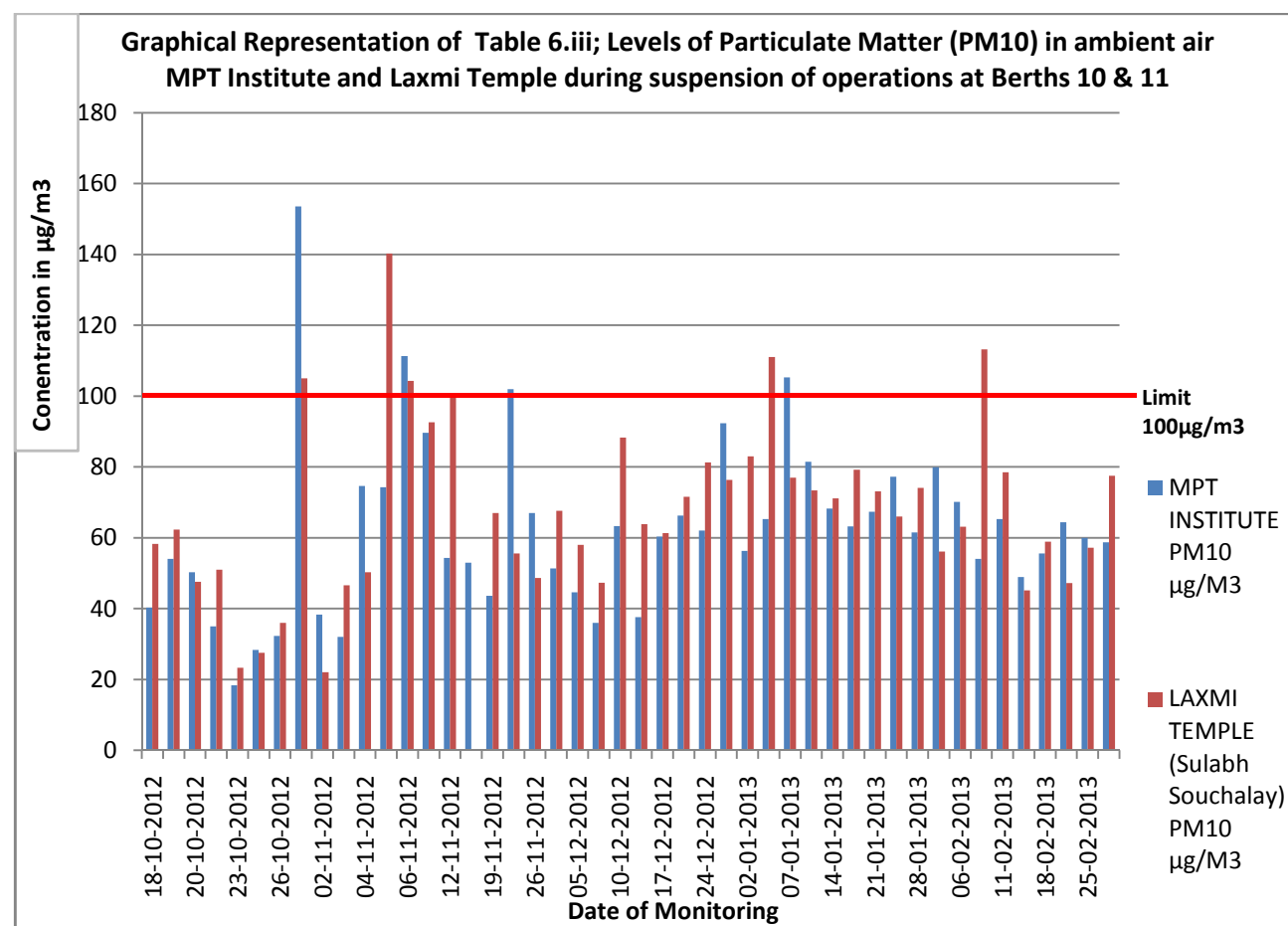
** Evacuation of coal / coke belonging to M/s JK Cement was in progress during the period from 06/11/2012 to 15/12/2012.

Evacuation of coal / coke belonging to M/s Kirloskar was in progress from 14/11/2012 to 08/12/2012.

Sweeping activity near station

Source could not be identified

@ Strong winds and dust



Comparing the levels of particulate matter in the ambient air during the pre and post-suspension periods of the activities at Berth nos. 10 & 11, the levels of pollution have gone down to a large extent after the suspension of activities at berths 10 & 11 which can be seen in the tables I, II & III and graphical representations of the tables. However, on few occasions during the monitoring period the levels of pollutant (PM₁₀) have gone beyond the permissible limit, this could possibly be a result of the evacuation activities (permitted by Board during those occasions) going on in the berths and other reasons as listed down in remarks at Table III.

6.2 Studies on the Trend of Water Quality in Goa

In Goa, water sources (i.e. perennial water bodies), which are being monitored by the Goa State Pollution Control Board (GSPCB) to ascertain its physico-chemical and microbial parameters through financial assistance provided by the Central Pollution Control Board (CPCB), have been categorised based on the guidelines stipulated by the CPCB into –

1. Saline water bodies – Class SW-II
 2. Freshwater bodies – Class C
 3. Groundwater (i.e. borewells) – Class A
- Please refer ** for classification of water bodies

Further, the water quality / locations being monitored at 16 other locations (*in addition to locations referred to in (1), (2) and (3) above*) have not yet been defined / classified pending its concurrence by the CPCB. However, an attempt is being made by the GSPCB to classify the same at site-specific level considering its optimum resource utilization and existing status.

In view of the above and after scrutinising the comparative water analysis of various parameters (i.e. annual average) analysed in the year (*i.e. 2012-13*), it can be interpreted as under :

- For class SW-II category of water bodies (*i.e. estuaries*), majority of the parameters, except Faecal Coliform, conform to the permissible limits as stipulated by the CPCB. Although pH is observed to be marginally less during 2009 – 2012, Faecal coliform shows higher trend during 2012-13 as compared to in previous years (*i.e. during 2009-2012*).
- For class 'C' category of water bodies (*i.e. rivers*), all parameters, except Total Coliform, conform to the CPCB permissible limits. Total coliform is observed to be exceedingly higher especially during 2013-13 compared to previous years (*i.e. during 2009-2012*).
- Class 'A' (*i.e. groundwater collected from borewells*) does not show any peculiar trend from 2009 to 2013. However, it is observed that Dissolve Oxygen (D.O.) is marginally lower than the permissible CPCB standard in all years while, Biological Oxygen Demand (BOD) is relatively higher than the permissible CPCB standards except in year 2013 during which it conforms to CPCB permissible standards. Further, total coliform is observed to be higher during 2012-13 as compared to during previous years (*i.e. 2009-2012*).

It could be concluded that higher coliform content may be attributed to localised site-specific human interference (*i.e. anthropogenic impact*) at the sampling location and/or shallower water depth for representative water sampling which may render higher microbial concentration due to possibility of presence of suspended organic matter owing to mechanism of resuspension.

Table-6.vi: Trend status of Water Quality Monitoring Data for the period April 2009 – March 2010, April 2010 – March 2011, April 2011 – March 2012 and April 2012 – March 2013

Location	Class	Annual Averages April 2009 – March 2010				Annual Averages April 2010 – March 2011				Annual Averages April 2011 – March 2012				Annual Averages April 2012 – March 2013			
		pH	DO (mg/l)	BOD (mg/l)	TC (mg/l)	pH	DO (mg/l)	BOD (mg/l)	TC (mg/l)	pH	DO (mg/l)	BOD (mg/l)	TC (mg/l)	pH	DO (mg/l)	BOD (mg/l)	TC (mg/l)
R. Chapora, Alorna	Class C	6.6	7.1	2	164	6.4	7.1	1.2	153	6.3	6.8	1.7	146	6.3	6.8	1.7	146
R. Khandepar, Codli	Class C	6.7	6.9	2	167	6.2	7.1	1.1	148	6.4	7.6	1.2	135	6.7	7.1	1.3	1474
R. Kushavati, Rivona	Class C	6.3	6.7	1.4	132	6.2	6.8	1.6	136	6.3	7.4	1.3	135	6.6	6.5	1.2	3847
R. Bicholim, Barazanagar	Class C	6.7	6.7	2.2	178	6.4	7	1.2	157	6.4	7	2.5	158	6.6	7	1.8	15460
Mayem Lake, Bicholim	Class C	6.5	6.9	1.4	142	6.4	6.7	1.5	137	6.7	7.1	2	147	6.3	6.9	1.6	3776
R. Kalna Chandel	Class C	6.5	7.6	1.4	122	6.1	6.8	1.3	120	6.5	7.5	1	144	6.9	7.1	0.8	3581
R. Assanora	Class C	6.3	6	1.2	116	6	7	2.5	153	6.4	7.6	1.6	120	6.6	6.6	1.5	3721
R. Valvanti Sanguem	Class C	6.5	7	1.7	140	6.1	6.8	0.8	124	6.4	7.3	2.2	194	6.5	7	1.3	7326
R. Madei Valpoi	Class C	6.7	6.9	1	79	6.1	7.2	1.5	179	6.3	7.2	1.3	144	6.8	7.3	1.2	1452
R. Khandepar Opa	Class C	6.7	7.4	0.9	155	6.2	7.6	1.2	139	6	7.1	1.7	-	6.9	7	1.3	2473
R. Talpona at Conacona	Class C	6.7	7.8	2.4	123	6.5	7.1	1.3	138	6.4	6.7	0.9	165	7	6.8	0.9	2272
R. Salaulim Lake at Sanguem	Class C	6.5	7.2	0.8	4	6.6	6.5	1	94	6.6	7	1.4	74	7.1	7.4	0.9	7452
Agricultural Canal Upstream	Class C	6.3	5.9	1.3	59	5.7	7.2	1.2	178	5.8	5.9	1.3	136	6.6	7.1	1.2	2716
Agricultural Canal down stream	Class C	6.3	6.6	1.1	180	5.6	7.2	1.3	121	6.4	6.8	1.3	115	6.8	6.9	1.6	2580

Table-6.vii: Trend status of Water Quality Monitoring Data for the period April 2009 – March 2010, April 2010 – March 2011, April 2011 – March 2012 and April 2012 – March 2013

Table 3.1.1: Trend Status of Water Quality Monitoring Data for the period April 2009 – March 2010, April 2010 – March 2011, April 2011 – March 2012 and April 2012 – March 2013																														
Location	Class	Annual Averages April 2009 – March 2010						Annual Averages April 2010 – March 2011						Annual Averages April 2011 – March 2012						Annual Averages April 2012 – March 2013										
		pH	DO (mg/l)	Turbidity (NTU)	BOD (mg/l)	Fecal Coliform (MPN/100 ml)		pH	DO (mg/l)	Turbidity (NTU)	BOD (mg/l)	Fecal Coliform (MPN/100 ml)		pH	DO (mg/l)	Turbidity (NTU)	BOD (mg/l)	Fecal Coliform (MPN/100 ml)		pH	DO (mg/l)	Turbidity (NTU)	BOD (mg/l)	Fecal Coliform (MPN/100 ml)		pH	DO (mg/l)	Turbidity (NTU)	BOD (mg/l)	Fecal Coliform (MPN/100 ml)
Cumbajua Canal	SW II	6.1	5.9	9.1	1.9	11		6.2	6.4	8.9	1.6	28		6.2	5.6	8.4	3.1	6		6.6	5.1	9.2	2.1	924		6.6	5.1	9.2	2.1	924
R. Mapusa, Mapusa	SW II	6.4	5.8	10.2	1.5	13		6.2	6.5	9.6	1.5	11		6.1	5.6	7.1	2	10		6.6	4.6	7.3	2.3	1490		6.6	4.6	7.3	2.3	1490
R. Sal, Panzarconi	SW II	7.1	7.3	8.5	2	13		6.7	5.8	13.7	1.8	12		6.7	6.3	16.4	2.3	7		6.9	6.1	12.1	1.7	1245		6.9	6.1	12.1	1.7	1245
R. Sal, Mobor	SW II	6.8	7.2	23.6	1.7	12		6.8	6	8.5	1.8	7		6.3	5.7	15.2	1.9	7		7.6	5.6	23.9	1.7	1513		7.6	5.6	23.9	1.7	1513
Dando Mollo Creek, Velsao	SW II	6.9	6.4	12.5	1.8	16		6.6	6.7	8.2	1.5	41		6.8	6.5	11.1	2.1	7		7.3	6.5	7.7	2.3	3101		7.3	6.5	7.7	2.3	3101
R. Mandovi, Panaji	Class SW II	6.9	7.2	15.9	1.5	11		6.4	6.2	–	1.7	7		6.3	5.8	12.5	1.5	9		7.4	5.7	6.2	1.4	773		7.4	5.7	6.2	1.4	773
R. Madovi Tonca Marcela	Class SW II	6.8	7	16.2	1.2	16		6.3	6.3	9.6	1.8	14		6.7	5.7	10.3	1.4	10		6.8	5.4	13.1	1.4	1242		6.8	5.4	13.1	1.4	1242
Zuari at Panchawadi	SW II	6.5	6.7	5.7	2	8		6.7	6.7	17.2	1.2	6		7.2	6.6	7.8	1.2	8		6.7	5.5	8	1.1	890		6.7	5.5	8	1.1	890
Zuari At Cortalim	SW II	6.2	7.3	25.2	2.1	9		6.8	6.6	16.7	1.2	5		6.6	6.3	56.6	1.3	9		7.5	5.8	13.7	1.6	615		7.5	5.8	13.7	1.6	615

Table-6.viii: Trend status of Water Quality Monitoring Data for the period April 2009 – March 2010, April 2010 – March 2011, April 2011 – March 2012 and April 2012 – March 2013

Location		Class	Annual Averages April 2009 – March 2010						Annual Averages April 2010 – March 2011						Annual Averages April 2011 – March 2012						Annual Averages April 2012 – March 2013						
			pH	DO (mg/l)	BOD (mg/l)	Fecal Coliform (mg/l)	Total Coliform (mg/l)	pH	DO (mg/l)	BOD (mg/l)	Fecal Coliform (mg/l)	Total Coliform (mg/l)	pH	DO (mg/l)	BOD (mg/l)	Fecal Coliform (mg/l)	Total Coliform (mg/l)	pH	DO (mg/l)	BOD (mg/l)	Fecal Coliform (mg/l)	Total Coliform (mg/l)	pH	DO (mg/l)	BOD (mg/l)	Fecal Coliform (mg/l)	Total Coliform (mg/l)
Bore well/ Tube Well at Madkai IE		Class A																									
Bore well/ Tube Well at Pilerne IE		Class A	6.6	6.8	1.3	-	NIL	6.3	1.8	1.1	-	15	6.2	2.8	1.3	-	150	6.6	6.9	2.5	-	145	6.2	4.9	0.1	-	<1.8
Bore well/ Tube Well/ Open well at Cuncolim IE		Class A																									
Bore well/ Tube Well/ Open well at Bethora IE		Class A																									
Bore well/ Tube Well/ Open well at Zuari Ind		Class A	6.8	5	3.6	-	NIL	6.6	6.7	2.6	-	NIL	5.9	4.7	2.6	-	17	6.6	3.3	0.4	-	4	6.6	3.3	0.4	-	4
Bore well/ Tube Well/ Open well at Sancoale IE		Class A	7.2	4.4	0.8	-	NIL	6.4	5.8	2.3	-	10	6.3	5.2	1	-	80	6.5	5.6	0.6	-	1700	6.5	5.6	0.6	-	1700
Bore well/ Tube Well/ Open well at Verna IE		Class A	6.4	3.1	0.3	-	NIL	6.5	5.7	2.4	-	--	6.4	5.5	1.1	-	19	6.7	5.8	1	-	65	6.7	5.8	1	-	65
Bore well/ Tube Well/ Open well at Kundaim IE		Class A	6.7	7.3	1.9	-	NIL	6.2	5.1	1	-	10	5.8	4.4	2.3	-	4	6	4.6	1	-	85	6	4.6	1	-	85
Bore well/ Tube Well/ Open well at Corlim IE		Class A	5.3	6.5	2.3	-	NIL	5.1	6	1	-	15	6.3	7.5	1.9	-	65	5	5.5	0.6	-	4	5	5.5	0.6	-	4

Table-6.ix: Status of Water Quality Monitoring Data for the period April 2012 – March 2013

Location	Class	Annual Averages April 2012 – March 2013						Remarks
		pH	DO (mg/l)	Turbidity (NTU)	BOD (mg/l)	Fecal Coliform (mg/l)	Total Coliform (mg/l)	
R. Sinkerim, Candolim Side	Not Categorised	7.7	5.3	7.5	1.5	506	1547	New locations, monitoring started in the month of June 2012
R. Sinkerim, near Ganpati temple	Not Categorised	7.7	5.3	7.1	1.3	2390	5077	
R. Mandovi near IFFI jetty	Not Categorised	7.8	5.9	8.7	1.4	1193	3205	
R. Manodvi near Mariotts	Not Categorised	7.7	5.9	9.06	1.8	2595	6975	
R. Mandovi at Ammona	Not Categorised	7.1	6.3	7	1.4	637	2432	
Raia lake	Not Categorised	6.6	5.5	9	2.5	812	1575	
Saipem Lake	Not Categorised	6.8	2.6	17.8	6	7600	18200	
Curtorim Lake	Not Categorised	6.7	4.5	13.6	6.3	1631	3431	
R. Zuari, Madkai Jetty	Not Categorised	7.3	5.2	22.5	1.4	390	2071	
R. Zuari at Borim Bridge	Not Categorised	7	5.2	10.9	1.3	3220	8114	
Carambolim Lake	Not Categorised	6.6	-	208.1	10.3	1300	2600	
R. Sal, Rumder	Not Categorised	6.7	3.9	16.4	6.3	1285	4197	
R. Sal, Orlim Bridge	Not Categorised	7.1	7.3	7	3.4	450	1345	
R. Sal, Khareband	Not Categorised	6.6	1.4	14.5	6.8	6514	11808	
R. Tiracol at Keri, Pernem	Not Categorised	7.7	6	7.5	2	1200	1036	
R. Chapora near Siolim Bridge	Not Categorised	7.6	6.2	4.6	1.6	1261	3247	

6.3 CONTINUOUS AMBIENT AIR QUALITY MONITORING STATIONS

6.3.1 DIRECTIONS FROM THE BOARD TO 17 CATEGORY INDUSTRIES FOR INSTALLATION OF ONLINE MONITORING SYSTEMS

The Central Pollution Control Board vide their communication directed the Board to ensure installation of Continuous Ambient Air Quality Monitoring Stations to 17 Red category industries. Subsequently the Board issued directions to the following industries to install Continuous Ambient Air Quality Monitoring Stations

- i) M/s Aparant Iron & Steel Pvt. Ltd, Sanguem
- ii) M/s Merck (India) Ltd, Usgao
- iii) M/s Reliance Energy Ltd, Sancoale
- iv) M/s Sanjivani Sahakari Sakkar Kharkhana Ltd., Tisk, Usgao
- v) M/s Sesa Goa Ltd, PIP division, Bicholim
- vi) M/s Syngenta India Ltd, Corlim
- vii) M/s Zuari Industries Ltd, Zuarinagar
- viii) M/s Srithik Ispat Ltd, Sanguem Industrial Estate
- ix) M/s Goa Sponge & Power Ltd, Santona

- x) M/s Shraddha Ispat Ltd, Santona
- xi) M/s Ambey Metallic Ltd., Pissurlem Industrial Estate
- xii) M/s Nicomet Industries Ltd., Pissurlem Industrial Estate
- xiii) M/s United Breweries Ltd, Ponda
- xiv) M/s United Spirits Ltd, Ponda
- xv) M/s MRF Ltd, Ponda
- xvi) M/s John Distilleries Ltd, Cuncolim Industrial Estate

The industries have sought time of six months to one year for installing the continuous monitoring system. However the following industries have installed the CAAQMS:

- i) M/s Zuari Industries Ltd, Zuarinagar – CAAQMS
- ii) M/s Sesa Goa Ltd, PIP division, Bicholim– CAAQMS
- iii) M/s Goa Sponge & Power Ltd, Santona – online stack monitoring
- iv) M/s Reliance Energy Ltd, Sancoale – online stack monitoring
- v) M/s Shraddha Ispat Ltd, Santona– online stack monitoring

The Board thereafter directed the industries to submit the bank guarantee of Rs. 5 lakh for completing the installation within the stipulated time. The industries have submitted the bank guarantees to the Board.

6.3.2 DETAILS ON INSTALLATION OF ONLINE MONITORING SYSTEMS BY SOME INDUSTRIES

1. M/S ZUARI INDUSTRIES LTD.

M/s Zuari Industries Ltd, a fertilizer manufacturing company located at Zuarinagar, Sancoale, Goa has recently installed a continuous ambient air quality monitoring system (CAAQMS) to monitor the quality of ambient air around its vicinity. The unit was inaugurated by Mr. Jose Manuel Noronha, Chairman, Goa State Pollution Control Board on February 5, 2013 in presence of Mr. Levinson Martins, Member Secretary, Goa State Pollution Control Board. Those present on the occasion from Zuari Agro Chemicals Ltd. were Mr. Ranjit Singh Chugh, Chief Manufacturing Officer, Mr. N.M. Kantak, Chief General Manager-Operations, Mr. R.Y. Patil, Chief General Manager & Company Secretary and other senior officials. The Chairman & the Member Secretary of GSPCB were taken around the unit and were briefed about the working & salient features of the continuous monitoring system.

The Continuous AAQMS installed is a sophisticated and sensitive instrument and analyzes various parameters such as PM-2.5, PM-10, Sulphur Dioxide, Nitrogen Oxides and Ammonia in ambient air on continuous basis in real time by using analyzers based on latest technology. All the instruments & analyzers on board are imported and are housed in a seal proof stainless steel shelter.



Plate 6-a: Inauguration of Continuous Ambient Air Quality Monitoring System at M/s Zuari Industries Ltd.

6.4 INSTALLATION OF ORGANIC WASTE CONVERTERS (OWC) BY HOTELS

As a solution to the indiscriminate disposal of waste, the Board issued directions to hotels having consent of the Board to install Organic Waste Converter (OWC) for converting the organic waste including bones into compost. The details of the same are provided in the table below.

Table 6.x: Table indicating the status of the hotels w.r.t. Organic Waste Converter (OWC)

Sr. No.	Name of the hotel	No. of rooms	Restaurant seating capacity	Status w.r.t. OWC
1.	M/s V.M. Salgaocar & Bro. Pvt. Ltd. (Hotel Divn: Goa Marriott Resort), Panaji	178	500 (3 restaurants)	Has installed vermi composting unit
2.	M/s Fomento Resorts & Hotels Ltd. (Cidade de Goa Beach Resort) Dona-Paula, Goa	210	390 (5 restaurants)	Has installed Organic Waste converter
3.	M/s Golden Peace Hotels & Resorts Pvt. Ltd., (Hotel "The Majestic") Porvorim	50	120 (3 restaurants)	Has installed Organic Waste converter of 600 kg/ day
4.	M/s Gulf Goans Hotels Company Ltd.(Hotel Goan Heritage)' Calangute	75	60	Has installed organic waste converter
5.	M/s Highland Holiday Homes Pvt. Ltd. (Highland Beach Resort), Candolim	90	52	Has installed organic waste converter
6.	M/s. The Indian Hotels Company Ltd. (Unit: The Taj Holiday Village) Candolim,	142	390 (3 restaurants)	The unit has installed a Bio-composting unit of capacity 1000 kgs/day
7.	The Indian Hotels Company Limited, (Fort Aguada Beach Resort) Sinquerim	145	Four restaurants	The unit uses the same Bio-composting unit installed at Taj Holiday Village
8.	M/s Maberest Hotels Pvt. Ltd. (Hotel Fidalgo) Panaji-Goa	101	250 (6 restaurants)	Has not installed OWC, bank guarantee submitted for installation of organic waste converter
9.	M/s. Kamat Constructions & Resorts Pvt. Ltd.(Unit: Vivanta by Taj) St. Inez, Panaji	170	58 (2 restaurants)	Has installed organic waste converter
10.	M/s. Lemon Tree Amarante Beach Resort (A Unit of Krizm Hotels Pvt. Ltd.) Vadi, Candolim	60	90 (2 restaurants)	Has installed organic waste converter OWC
11.	M/s Chalston Hotel, Survey No. 207, Baga Road, Cobra vaddo, Calangute -Goa	67	120	Has installed composting unit
12.	M/s Neelam Hotels Pvt. Ltd. (Neelam's The Grand) Naikawaddo, Calangute	143	110	Has installed composting unit of capacity 200 kg/ day
13.	M/s La Calypso Hotels Pvt. Ltd., Saunta Vaddo, Baga Road, Calangute	59	Three restaurants	Has installed composting unit
14.	Whispering Palm Beach Resort SINQUERIM BEACH, WADDI, CANDOLIM, BARDEZ, GOA	106	One restaurant	Has installed composting unit
15.	Phoenix Park Inn Resort, Sequeira Vaddo, Candolim	92	One restaurant	Has not installed OWC, bank guarantee submitted
16.	M/s Venture Resorts Holding, Hotel Vivenda Calangute,	53	100	Has installed composting unit
17.	M/s. Santiago Resort Calangute-Goa	70	48	The unit uses the same OWC installed at Sun Village
18.	M/s. Britto Amusements Pvt. Ltd. (Vainguinim Valley Resort) Vainguinim, Dona-Paula	53	72	Has not installed OWC, BG not submitted, directions issued.
19.	M/s DeSouza Hotels Resort ("Sun Village") Arpora, Baga	135	166 (2 restaurants)	Has installed Organic Waste Converter (100kg/ shift)
20.	M/s. Alcon Real Estates Pvt. Ltd. Unit: Victor Exotica Candolim	76	100	Has installed Organic Waste Converter

21.	M/s. Nazri Resorts Saunta Vaddo, Calangute-Goa	104	80	Has installed Organic Waste Converter
22.	M/s. Colonia Santa Maria Hotels Pvt. Ltd., Calangute,	65	1 Restaurant	Has not installed OWC, BG not submitted, directions issued.
23.	M/s Sonesta Inns Pvt. Ltd, Anna vaddo, Candolim	52	40	Has constructed composting pit
24.	M/s Kamat Holiday Homes, Gaura vaddo, Calangute	70	52	Has installed Organic Waste Converter
25.	M/s Marina Resort Pvt. Ltd, Paradise Village Beach Resort, Calangute	86	100	Has not installed OWC, BG not submitted, directions issued.
26.	M/s Marigold Hotel, Patto Bridge, Panaji	34	66	Has purchased OWC & given to CCP
27.	M/s Mandovi Hotels Pvt. Ltd, D.B. Bandodkar Marg, Panaji	65	70	Has not installed OWC, BG not submitted, directions issued.
28.	M/s Prestige Holiday Resorts Pvt. Ltd., 'Monte Rio', Arpora, Bardez-Goa	58	65	Has installed Organic Waste Converter
29.	Silver Sands Holiday Village, 148/5, 148/6, Candolim, Bardez-Goa	70	153	Has installed Organic Waste Converter

Pictures of some the Organic Waste Converter installed by some of the hotels in Goa



Plate 6-b: OWC at M/s KHR Hospitality India Ltd.
(Unit: Kenilworth Beach Resort), Utorda



Plate 6-c: OWC at M/s Fomento Resorts & Hotels Ltd.
(Cidade de Goa Beach Resort), Dona-Paula



Plate 6-d: OWC & Shredder at M/s Grand Hyatt, Bambolim



Plate 6-e: Shredder & OWC at M/s Taj Vivanta, Panaji



Plate 6-f: OWC at M/s The Leela Goa



Plate 6-g: OWC at M/s Averina International Resorts Ltd., Holiday Inn Resort Goa, Mobor, Cavelossim-Goa

6.5 PROPOSED COMMON HAZARDOUS WASTE MANAGEMENT SITE AT DHARBANDORA

The Central Pollution Control Board vide their letter dated 28th March, 2006 had issued directions to the Board to ensure setting up of Common Facility for landfilling of hazardous waste in pursuance of the Order of the Hon'ble Supreme Court. Subsequently an area admeasuring 2,20,000 sq.mts. in survey no. 193 at Dharbandora taluka has been notified by the State Government for the purpose of establishing the Common Hazardous Waste Treatment, Storage and Disposal Facility (CHWTSDF) for Goa State under Rule 8(7) of the Hazardous Waste (Management and Handling) Rules 1989. Accordingly, the site was handed over to Goa-Industrial Development Corporation by the Revenue Department, Government of Goa who was entrusted in facilitating the setting up of CHWTSDF. The Environmental Impact Assessment study of the site was conducted through an approved agency and thereafter an environmental public hearing was conducted by the Goa State Pollution Control Board. The Ministry of Environment and Forest, Government of India has accorded Environmental Clearance for setting up of the Common Hazardous Waste Treatment, Storage and Disposal Facility at Dharbandora in 2008. Subsequently the Goa-Industrial Development Corporation has handed over an area admeasuring 1,08,000 sq.mts. to the Industrial Waste Management Association of Goa for setting up of Common Hazardous Waste Treatment, Storage and Disposal Facility. The validity of the Environmental Clearance expired on 18th February, 2013 and an application for the renewal of Environmental Clearance was submitted to the Goa State Environment Impact Assessment Authority. At its meeting held on 30th January, 2013, the Goa State Environment Impact Assessment Authority has extended the Environmental Clearance for a further period of five years that is upto 18th February, 2018.

The proposed Common Hazardous Waste Treatment, Storage and Disposal Facility will comprise of weigh bridge, laboratory, storage onsite, pre-treatment facility (stabilization and solidification) and the landfill. The landfill will be developed in eight cells in phases and each cell will comprise of a base layer of low permeability soil/ clay followed by drainage layer for removal of secondary leachate thereafter by HDPE liners followed by primary leachate collection and second layer of HDPE liners over which the stabilized waste will be placed. Once the cell is fully occupied with the waste it will be covered with drainage layer followed by HDPE/ synthetic geo membrane liners and a final cover of vegetative soil over which grass cover will be provided. Provision will be made for gas vent pipes and monitoring wells. The water quality in the wells will be monitored for a period of 30 years. Further the non destructive testing of the landfill will have to be carried out periodically to ensure that there are no cracks developed in the landfill.

6.6 SLUDGE DEWATERING UNIT INSTALLED BY M/S UNITED SPIRITS LTD.

M/s United Spirits Ltd. has recently installed a Sludge De-Watering Unit with brand name – “SLUDGLESS”. This is an upgradation to the existing Effluent Treatment Plant for enhancing the treatment procedure. The units function as follows:



Plate 6-j: Sludge De-Watering unit (SLUDGLESS) installed apt M/s Unites Spirits Ltd.

The XMD “Sludgless” unit realizes the dewatering of the sludge in small/medium size plants. This machine, fabricated in stainless steel, takes advantage of a patented thickening principle and in a next phase of a mechanical dewatering principle. The liquid sludge (solid concentration 0.8 - 5 %) is gathered until a solid content variable from 12 to 15% has been reached (depending from the kind of sludge, reactants and of the application field). The sludge added to the reactant is introduced to the machine. A pre-thickener static mixer provide for a first thickening action. Then the screw transports the sludge in the dewatering zone where the action of mechanical dewatering is emphasized. The composition of the machine is extremely simple, just to reduce at minimum the operations of ordinary maintenance. The external body of the machine is fully realized in stainless steel INOX. On the inside there are the dewatering drums and the conveying and compressing screw for the sludge. The drums are realized with a peculiar wedge-wired profile section which is able to grant a draining surface much wider than the profile section commonly used. The sludge conveying screw is fabricated with micro alloy steel to assure a great resistance and durability through time.

In the following picture a logical scheme of introduction of the machine in the plant is reported.

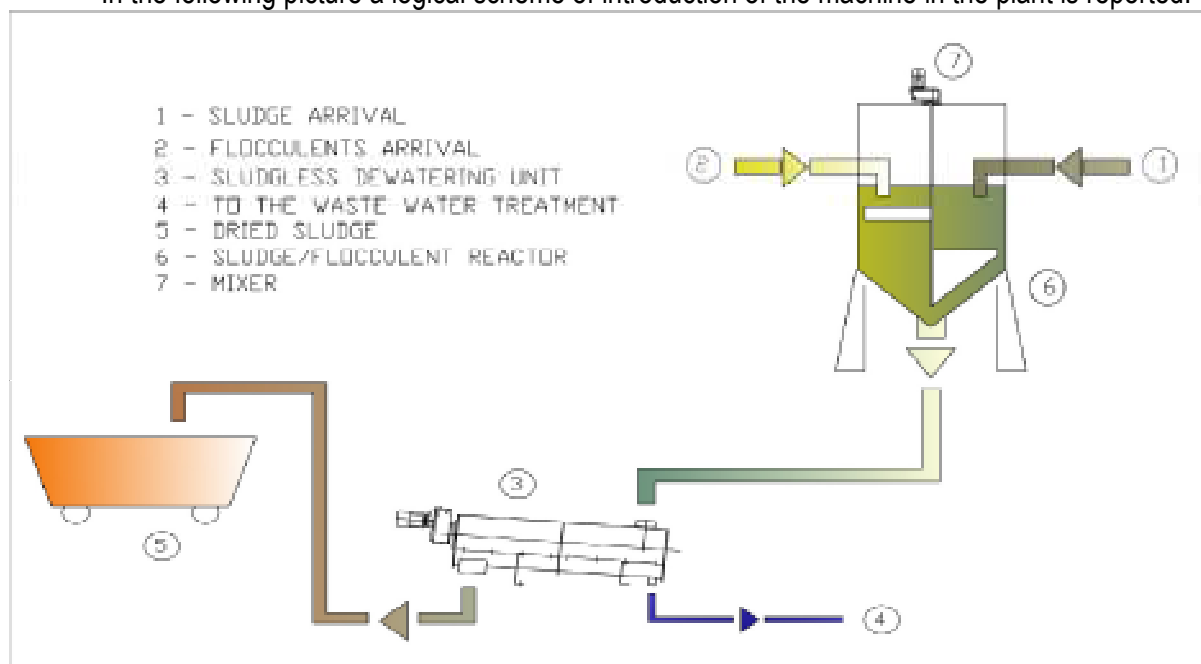


Figure 6.1: Picture showing the schematic diagram of the Sludge De-Watering Unit

CHAPTER 7

ENVIRONMENTAL TRAINING

7.1 TRAININGS / WORKSHOPS/ SEMINARS ATTENDED BY BOARD OFFICIALS

7.1.1 EXTERNAL TRAININGS / WORKSHOPS / SEMINARS ATTENDED BY BOARD OFFICIALS

During the year under report, the officials of the Board attended training programmes / workshops / seminars etc., organized by reputed Institutions. The details of the same are as follows:

Table 7.i: Trainings Programmes / Workshops / Seminars attended by the Board staff during the year

Sr. No	Name & Designation of the Official	Title of the Seminar	Duration	Organizing Institute
1	Mr. Alleluia D'Mello	In- Service Training Programme	6 th August 2012 to 10 th August 2012	Goa Institute of Rural Development & Administration, Old Goa
2	Mrs. Francisca Auria Lobo	In- Service Training Programme	6 th August 2012 to 10 th August 2012	
3	Ms. Berlyn Fernandes – Accounts Clerk	In- Service Training Programme	6 th August 2012 to 10 th August 2012	
4	Mrs. Swapna Naik	Course on Internet & Email	21 st August 2012 to 23 rd August 2012	GEDC
5	Mrs. Ana Maria Lourenco	Course on Internet & Email	21 st August 2012 to 23 rd August 2012	GEDC
6	Mrs. Suzee Fernandes	Course on Internet & Email	21 st August 2012 to 23 rd August 2012	GEDC
7	Mr. Umesh Kankonkar	Course on Internet & Email	21 st August 2012 to 23 rd August 2012	GEDC
8	Ms. Stefanie Carvalho – Accounts Clerk	In- Service Training Programme	3 rd September 2012 to 7 th September 2012	Goa Institute of Rural Development & Administration, Old Goa
9	Ms. Debra Pereira	In- Service Training Programme	3 rd September 2012 to 7 th September 2012	
10	Ms. Shane Gracias	In- Service Training Programme	3 rd September 2012 to 7 th September 2012	
11	Mrs. Ana Maria Lourenco	In- Service Training Programme	3 rd September 2012 to 7 th September 2012	
12	Mr. Maison Fernandes	In- Service Training Programme	3 rd September 2012 to 7 th September 2012	
13	Ms. Edma Fernandes - Scientific Assistant	VTT Technical Centre, Espoo Finland in collaboration with CPCB	10 th September 2012 to 14 th September 2012	CPCB
14	Mrs. Daya Usgaonkar e Godinho – Upper Division Clerk	In- Service Training Programme	20 th September 2012 to 22 nd September 2012	Goa Institute of Rural Development & Administration, Old Goa
15	Ms. Margaret Cardozo	In- Service Training Programme	20 th September 2012 to 22 nd September 2012	
16	Dr Mohan Girap	Training programme for Environmental	24 th – 29 th September 2012	Center for Science & Environment (CSE) in

		Regulators		collaboration with the
17	Mrs. Francisca Pereira	Training programme for Environmental Regulators	25th – 29th September 2012	MoEF and CPCB, New Delhi.
18	Mrs. Joshna Mahale – Scientific Assistant	Workshop on “Execution of CBIMP Project & NPRPS Sharing Experience”	29th November 2012	Andra Pradesh Pollution Control Board
19	Mr.Krishnanath Pednekar – Scientific Assistant	Source Emission & Ambient Air Dioxin Furan Monitoring	5 th December 2012 to 7 th December 2012	Central Pollution Control Board, Bangalore
20	Mr. Waman Chari – Senior Laboratory Assistant	Source Emission & Ambient Air Dioxin Furan Monitoring	5 th December 2012 to 7 th December 2012	
21	Mr. Nilesh Surlekar – Senior Laboratory Assistant	Source Emission & Ambient Air Dioxin Furan Monitoring	5 th December 2012 to 7 th December 2012	
22	Mrs. Francisca Pereira	Workshop on ‘Air Quality Management in India’	6th to 7th December, 2012.	Indian Institute of Technology (IIT), Mumbai
23	Mr. Ganpat M. Naik	Workshop on ‘Air Quality Management in India’	6th to 7th December, 2012.	
24	Dr Mohan Girap	Sustainable Management of Mercury (Hg) in Fluorescent Lamps in India	12th to 15th December 2012	CPCB, Toxic Links, New Delhi
25	Mrs. Tulita da Costa e Fernandes – Office Superintendent	Standardizing Service delivery & Citizens charter	13 th February 2013 to 15 th February 2013	Goa Institute of Rural Development & Administration, Old Goa

7.1. 2. INDUCTION TRAINING PROGRAMME TO THE NEWLY RECRUITED SCIENTIFIC & TECHNICAL STAFF OF THE GSPCB

Centre for Environment Education, Goa organized an ‘Induction Training Programme’ for the newly recruited Scientific & Technical Staff of the Goa State Pollution Control Board during 5th June to 13th June 2012. The programme was sponsored by GSPCB. The following officials of GSPCB attended the training programme.

Table 7.ii: Details of the Board staff who attended the Induction Training Programme

Sr. No	Name & Designation of the Official
SCIENTIFIC SECTION	
1	Ms. Connie Fernandes – Scientist ‘C’
2	Dr. Mohan Girap – Scientist ‘C’
3	Ms. Edma Fernandes - Scientific Assistant
4	Mrs. Avina Pereira – Scientific Assistant
5	Mrs. Joshna Mahale – Scientific Assistant
6	Mr. Chaitanya Salgaonkar – Scientific Assistant
7	Mr. Ravi Naik – Scientific Assistant
8	Mr.Krishnanath Pednekar – Scientific Assistant
9	Mrs. Chetna Naik – Scientific Assistant
10	Ms. Denza Cardozo – Scientific Assistant
11	Ms. Reshma Vaz – Scientific Assistant
12	Mrs. Payal Baadkar – Scientific Assistant
13	Ms. Elvira Martins – Scientific Assistant

14	Ms. Shabna Nadaf – Scientific Assistant
15	Ms. Jewela Miranda – Scientific Assistant
16	Mr. Sanmesh Borkar – Senior Laboratory Assistant
17	Mr. Nilesh Surlekar – Senior Laboratory Assistant
18	Mr. Samir Borkar – Senior Laboratory Assistant
19	Ms. Sonia Borges – Senior Laboratory Assistant
20	Mrs. Luiza Ferrao e Gracias – Senior Laboratory Assistant
21	Ms. Prisca Borges – Senior Laboratory Assistant
22	Mrs. Fransquina Fernandes – Senior Laboratory Assistant
23	Ms. Jessica Fernandes – Senior Laboratory Assistant
24	Ms. Reema Kaulekar – Junior Laboratory Assistant
25	Mr. Freddy Barbosa – Junior Laboratory Assistant
26	Ms. Felsy Pereira – Junior Laboratory Assistant
27	Ms. Sophia Dias – Junior Laboratory Assistant
28	Mr. Johnny Moniz – Junior Laboratory Assistant
29	Ms. Nishtha Lolayekar- Junior Laboratory Assistant
30	Mrs. Quiteria Fernandes e Pereira – Junior Laboratory Assistant
31	Ms. Sheetal Laad – Junior Laboratory Assistant
32	Ms. Wilma D'costa – Junior Laboratory Assistant
33	Mr. Anthony Miranda – Junior Laboratory Assistant
34	Mrs. Clemy Rodrigues – Junior Laboratory Assistant
35	Mrs. Rowena Fernandes
36	Mr. Anil Parab – Field Assistant
37	Mr. Chandrashekar Parab – Field Assistant
38	Mr. Xawollino Rodrigues – Field Assistant
39	Ms. Luiza D'silva – Field Assistant
40	Mrs. Milagrina Colaco – Field Assistant
41	Mr. Sidney Gracias – Field Assistant
42	Mr. Saby Fernandes – Field Assistant
TECHNICAL SECTION	
43	Mr. Abner Rodrigues – Jr. Env't Engineer
44	Mr. Eknath Gopal Kerkar – Jr. Env't Engineer
45	Mr. Rohan Nagvekar – Jr. Env't Engineer
46	Mr. Shivprasad Murari – Jr. Env't Engineer
47	Mr. Manoj Kudalkar – Jr. Env't Engineer
48	Mr. Amit Shanbhag – Jr. Env't Engineer
49	Mr. Pravin Faldessai – Jr. Env't Engineer
50	Mr. Sebastiao Barreto - Engg. Assistant
51	Mr. Ashley Pereira - Engg. Assistant
52	Mr. Vinson Quadros - Engg. Assistant
53	Mr. Sebastiao Colaco - Engg. Assistant
54	Mr. Liston Fernandes - Engg. Assistant

7.1.3 TRAININGS CONDUCTED BY THE BOARD ON STACK EMISSION MONITORING

(1) STACK EMISSION MONITORING TRAINING CONDUCTED BY M/S ADITYA ENVIRONMENTAL SERVICES PVT. LTD.

M/s Aditya Environmental Services Pvt. Ltd. sponsored a training programme for the officials of the GSPCB on Stack Emission Monitoring. The following officials of the Board participated in Stack Emission monitoring training programme held during 16th to 20th of April 2012. The industrial units covered for the on-

site monitoring were M/s Rukminirama Rolling Pvt.Ltd., M/s Shraddha Ispat Pvt. Ltd. and M/s Sunrise Electromelt Pvt. Ltd. all located in Cuncolim Industrial Estate.

Table 7.iii: Details of the Board staff who attended the above Stack Emission Monitoring Training

Sr.No	Name & Designation of the Official
1.	Mr. Ganpat Naik, Scientific Assistant
2.	Mr. Krishnanath Pednekar, Scientific Assistant
3.	Mr. Soccorro Borges, Scientific Assistant
4.	Mr. Waman Chari, Sr. Laboratory Assistant
5.	Mr. Nilesh Surlekar, Sr. Laboratory Assistant
6.	Mr. Sunny Pirankar, Jr. Laboratory Assistant
7.	Mr. Kamlesh Kavlekar, Jr.Laboratory Assistant

(2) STACK EMISSION MONITORING TRAINING CONDUCTED BY GSPCB IN CO-ORDINATION WITH CPCB, BANGALORE

The GSPCB conducted a training programme on Stack Emission monitoring in co-ordination with Central Pollution Control Board (CPCB), Bangalore from 17th to 19th December 2012. Mr. Karunakaran, Sr. Technical Supervisor and Mr. Gnanavelu, Sr. Scientific Assistant from the CPCB West Zonal Office, Bangalore conducted the training programme at Goa. The training programme included theory classes on 17/12/2012 at the Board office and practical on site stack emission monitoring training on 18/12/2012 and 19/12/2012. The industries covered for the on site monitoring were M/s Karthik Alloys Ltd., Cuncolim and M/s Syngenta India Ltd., Corlim. The following officials of the Board attended the training programme.

Table 7.iv: Details of the Board staff who attended the above Stack Emission Monitoring Training

Sr.No	Name & Designation of the Official
1.	Ms.Connie Fernandes, Scientist 'C'
2.	Mrs.Francisca Pereira, Scientist 'B'
3.	Mr. Ganpat Naik, Scientific Assistant
4.	Mr. Krishnanath Pednekar, Scientific Assistant
5.	Mr. Soccorro Borges, Scientific Assistant
6.	Mr. Waman Chari, Sr. Laboratory Assistant
7.	Mr. Nilesh Surlekar, Sr. Laboratory Assistant
8.	Mr. Kamlesh Kavlekar, Jr.Laboratory Assistant
9.	Mr. Freddy Barbosa, Jr. Laboratory Assistant
10.	Mr. Xawollino Rodrigues, Field Assistant
11.	Mr. Saby Fernandes, Field Assistant

7.2 DEPUTATIONS IN THE BOARD

Shri. Videsh Mammal, Accountant from Accounts Department was appointed as Accountant in the Board since 30/07/2009.

7.3 RESIGNATION FROM SERVICE

Shri Pedro Fernandes, Driver of the Board resigned from the post from 30/06/2012 and his resignation has been accepted from 30/06/2013.

CHAPTER 8

ENVIRONMENTAL AWARENESS AND PUBLIC PARTICIPATION

8.1 MASS AWARENESS

Awareness programmes on solid waste management in the State of Goa have been conducted through The Energy Research Institute (TERI). Mass awareness programmes are required to be conducted for the following:

1. Municipal Solid Waste segregation, treatment and disposal in each council and coastal Panchayats
2. Awareness regarding Noise Rules in the coastal villages for the general public and stakeholders (hotels / restaurants / shacks / discotheques)
3. Awareness programmes for segregation, treatment and disposal of bio-medical waste for the doctors, nurses and workers
4. Awareness programmes for the truck drivers transporting iron ore.
5. Awareness programmes for assemblers, distributors and dealers of batteries regarding provision of the Batteries Management and Handling Rules.
6. Awareness programmes for manufacturers of plastic bags.

CHAPTER 9

LEGAL MATTERS OF THE BOARD

The status of the major cases filed by the Board and the cases disposed off and the cases pending, in the High Court of Bombay at Goa and in the Supreme Court of India at Delhi is presented in Annexure VI.

The statement showing the details of number of requests received, disposed off, rejected, fees collected, appeals preferred to the first Appellate Authority, outcome of appeals etc. under RTI Act, 2005 for the financial year April 2010 to March 2011 is given in Annexure VII.

CHAPTER 10

FINANCE AND ACCOUNTS OF THE BOARD

10.1 STATUS OF AUDITING OF ACCOUNTS OF THE BOARD

As per sub-sections 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 Board accounts for the year 2003-2004, 2004-2005, and 2005-2006 has been completed during the financial year 2010-2011. Audit for the Years 2006 – 2007, 2007 – 2008, 2008 – 2009 and 2009 – 2012 have been completed during the financial year 2011 – 2012. Audit for the year 2010 – 2011 have been completed in January 2013.

10.2 INCOME, EXPENDITURE AND FUNDING

The income and expenditure account of the Board for the year ended 31st March, 2013 is as per table below:

Table 12.i: Income and Expenditure Account for the year ended 31st March, 2013

Particulars	1-Apr-2012 to 31-Mar-2013	Particulars	1-Apr-2012 to 31-Mar-2013
Direct Expense	41204734.00	Direct Income	54815820.54
Salaries	41204734.00	Air Consent Fees	25332083.00
GIS		Ambient Monitoring Fees	246739.00
Indirect Expenses	24248983.00	Bio Medical Fees	28345.00
Advertisement & Publicity	1239507.00	Income From RTI	24582.00
Chairman Expenses	2410199.00	NOC Fees	3014180.00
Laboratory Expense	11106092.00	Other Receipts	781838.00
Office Expense	5256419.00	Water Consent Fees	25388053.54
Running & Maintences-Vehicles	1113996.00		
Audit Fees	122416.00	Indirect Incomes	51213543.00
Books & Periodicals	13825.00	Interest Accrued	50713543.00
Business Promotion Expense	4226.00	Public Hearing	500000.00
Computer Training	57000.00		
Courier Charges	2790.00		
Fire Insurance	32304.00		
Honorarium	167000.00		
Hospitality Expenses	73172.00		
Legal Fees	1450738.00		
Medical Reimbursement	92347.00		
NIC	31900.00		
Professional Fees	68427.00		
Rates & Taxes	905.00		
Rent Paid	492270.00		
Seminar (XGN Software)	26398.00		
Travelling & Conveyance	301116.00		
Vehicle Expenses	6300.00		
Website	64112.00		
Wi – Fi	25410.00		
World Environment Day Expense	90114.00		
Excess of Income over Expenditure	40575646.54		
Total	106029363.54	Total	106029363.54

The details of the funding received by the Board for the year under report is as follows:

Funds	Estimated, in Rs. lakhs
	2012-13
1. Central Govt.	121.66
2. State Govt.	7.44
3. Share of Water Cess from Central Govt.	4.59
4. Partial reimbursement of NWMP and NAMP expenses by CPCB	2.47
5. Fees (consent to establish, consent to operate new/ renewal, authorization and analysis charges)	537.62
6. Bank interest	508.54
7. Public Hearing	5.00
8. Other receipts (including grants of SEP programming and Right to Information)	8.06
Total	1195.38

*As per the revised Goa Water and Air Rules 2011, fees amounting to about ten crores were collected from mining companies. However the Government thereafter decided to withdraw the notification and the amount of ten crores has been returned back to the mining companies.

CHAPTER 11

ANY OTHER IMPORTANT MATTERS DEALT WITH BY THE BOARD

11.1 IMPLEMENTATION OF HAZARDOUS WASTE (MANAGEMENT, HANDLING & TRANSBOUNDARY MOVEMENT) RULES, 2008

The Hazardous Waste (Management & Handling) Rules were notified by the Ministry of Environment & Forests in the year 1989 under the provisions of the Environment Protection Act, 1986. Later the Rules were amended in the years 2000 and 2003 and subsequently, they were modified as the Hazardous Wastes (Management, Handling & Transboundary Movement) Rules in the year 2008.

The Board grants authorizations to industries generating and handling hazardous wastes. At present the Goa State Pollution Control Board has identified 541 industrial units generating hazardous waste in Goa and authorizations have been granted to all 541 industries (since the inception of the Rules). During the year under report, 160 units have been granted authorization (new / renewals) under the Hazardous Waste (Management & Handling) Rules, 2008. The hazardous waste generated in the State of Goa for the year 2012-2013, is as follows: total recyclable waste: 2473.5493MT; total land fillable waste: 5513.676MT; total incinerable waste: 28566.122MT and discarded containers & filters :7883nos. the total no. of hazardous waste authorizations granted for 2012-2013:293 nos.

The details such as location of the unit, category of hazardous waste, quantity generated and mode of disposal are given in Annexure VIII.

The implementation of Hazardous Waste (Management, Handling & Transboundary Movement) Rules, 2008 is dealt with by Mr. Pravin Faldessai, Jr. Environment Engineer of the Board.

11.2 IMPLEMENTATION OF BIO-MEDICAL WASTE (MANAGEMENT & HANDLING) RULES, 1998

For the purpose of implementation of the Bio-Medical Waste (Management and Handling) Rules 1998, 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	1 Nos.
3. Category 3: With 50 beds and above, but less than 200	13 Nos.
4. Category 4: With beds less than 50 including Clinics & Patho Labs.	216 Nos.
5. All other institutions generating bio-medical waste (not included above)	3 Nos.

Till 31/03/2011, 234 Health Care Units were granted authorizations under the Bio-Medical Waste (Management & Handling) Rules, 1998. The status of the Bio Medical waste generated by these units during the year is given as Table 6 in Annexure VI.

There are total three hundred and sixteen Health Care Facilities (HCF) out of which one hundred and forty are bedded Hospitals with four thousand five hundred and twenty nine beds, one hundred and thirteen are non bedded hospital and sixty three are Veterinary hospitals/ research organizations in the State. All the facilities have been granted authorization. Out of these, one facility have incinerator with air pollution control device, one hundred and seventy five have autoclave for sterilization, one have microwave and three hundred and sixteen have shredders for preliminary disposal of hospital instruments such as syringes, needle etc. The total quantity of bio-medical waste generated per day during the year 2012-13 is 4950.90 Kg out of which the total recyclable treated biomedical waste sold by HCF is 43.40 kg/ day and the

total treated bio-medical waste disposed by HCF is 4907.50 kg/ day.

The implementation of Bio-medical Waste (Management & Handling) Rules, 1998 is dealt with by Mr. Rohan Nagvenkar of the Board.

11.3 NOISE POLLUTION (REGULATION & CONTROL) RULES, 2000

The Board conducts monitoring of noise levels whenever any specific complaints of noise pollution are received and action is 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. In view of this, the Board forwards to the Competent Authority all the reports of Noise Level Monitoring conducted by the Board for necessary action.

11.4 IMPLEMENTATION OF MUNICIPAL SOLID WASTES (MANAGEMENT & HANDLING) RULES, 2000

The Board has issued an authorization to all the Urban Local Bodies under the provisions of Municipal Solid Waste (Management & Handling) Rules 2000. The authorizations have been issued independently for specific purpose to the Municipal Bodies.

As per the Annual Report for the year 2011- 2012 submitted to the Central Pollution Control Board, out of 13 Municipal Councils and 1 Municipal Corporation; Seven Municipal Bodies have installed Garbage Treatment Plants and presently all are in operation and five Municipal Bodies have constructed sanitary landfill sites and presently all are in operation. Municipal Bodies except Sanguem & Curchorem Cacora Municipal Council have complied with the provisions of Municipal Solid Waste (Management & Handling) Rules 2000 in terms of collection, segregation, storage & transportation of the waste.

The Board has directed the Starred Hotels (3 Star & above) to install Organic Waste Converter (OWC) at their establishments in order to treat the Bio- Degradable Waste generated by them. Presently, some of the Hotels have installed the same.

The implementation of Municipal Solid Wastes (Management & Handling) Rules, 2000 is dealt with by Mr. Manoj, Kudalkar, Jr. Environmental Engineer of the Board.

11.5 IMPLEMENTATION OF PLASTICS MANUFACTURE, SALE AND USAGE RULES, 1999

There are twenty two units involved in manufacture of plastic bags in the State. All these units have obtained consent and have also obtained registration under Recycled Plastic Usage Rules. There are thirty one units involved in plastic shredding and manufacture of granules (except plastic bags).

The Government of Goa through the High Level Task Force (HLTF) constituted to provide directions and implement various measures as announced in the Budget Speech, 2012-13, towards resolving the solid waste management problems affecting the State of Goa has taken a decision to phase out the plastic from domestic use.

Accordingly the Government has decided to strictly implement banning the manufacturing, sale and use of the plastic having thickness less than 40 microns and bags which do not have the name of

manufacturer, thickness and registration number printed on them as per the provisions of the Plastic Rules 2011 and Goa Non Biodegradable Garbage (Control) Act, 1996.

A drive for this purpose has already commenced on 22nd April 2013 on the occasion of Earth Day all over Goa including in and around the beaches of Goa.

The implementation of Plastics Manufacture, Sale and Usage Rules, 1999 is dealt with by Mr. Eknath Kerkar, Jr. Environmental Engineer of the Board.

11.6 IMPLEMENTATION OF BATTERIES (MANAGEMENT & HANDLING) RULES, 2001

Twenty three manufacturers / dealers and twenty two Bulk consumers are filing half yearly returns regularly to the Board. Most of the dealers are not filing half yearly returns to this office. Status reports on Batteries Management and handling Rules is under preparation. The details of the returns under the said rules are given in Annexure IX.

The implementation of Batteries (Management & Handling) Rules, 2001 is dealt with by Mr. Amit Shanbag, Jr. Environmental Engineer of the Board.

11.7 IMPLEMENTATION OF ELECTRONIC WASTES (MANAGEMENT & HANDLING) RULES, 2000

The computer market in the State has been increasing due to lot of commercial development and IT related activities. The State is emerging with a large middle class group who are willing to buy PC's. A large chunk of demand is still met by Assemblers who compete primarily on low cost advantage.

PC usage increases with the increase of the income level and education level of people. Majority of obsolete PC's are diverted to the grey markets, wherein the non functional parts are changed and fixed with the new parts in PC's and further sold back to customers and remaining miscellaneous scraps are sold to scrap-dealers and recyclers.

There are no recyclers in the State specially doing recycling for obsolete PC's. Existing E-waste handling practices are not expected to manage future E-waste generation thus formal recycling center is needed for E-waste collection, segregation, dismantling and recycling of the material. There is a lack of awareness in public regarding E-waste handling, treatment and disposal.

Presently, there are two units registered with the Board for collection of E-waste from the State of Goa, which is then sent to the registered recycler for recycling.

The implementation of Electronic Wastes (Management & Handling) Rules, 2000 is dealt with by Mr. Shivprasad Murari, Jr. Environmental Engineer of the Board.

11.8 OBJECTIVES & ACHIEVEMENTS

11.8.1 OBJECTIVES OF THE BOARD

The Board has planned to implement certain programmes for infrastructure development in specific areas. Following are some of the programmes sponsored by CPCB wherein studies have been initiated and the progress of the same is given below.

The CPCB has been supporting various programmes carried out by the Board. During the financial year 2009 - 2010, the Board received financial support to the tune of Rs. 2 Lakhs for each of the following studies carried out by the Board through outsourcing.

1. Preparation of report on 'Strengthening of Goa State Pollution Control Board'.
2. Preparation of report on 'Status of Sewage Management in Goa'.
3. Preparation of report on 'Status of Municipal Solid Waste Management in Goa'.
4. Preparation of report on 'Status of Bio Medical Waste Management in Goa'.
5. Preparation of report on 'Status of Plastic Waste Management and Inventorization of Recycling Units in Goa'.
6. Preparation of report on 'Status of E-waste generation/ Management in Goa'.
7. Preparation of report on 'Status of Batteries (Waste Handling) in Goa as per Batteries Waste Management Handling Rules'

The Draft Final Reports were submitted by the Consultants. All the studies have been approved and forwarded to CPCB except the study on 'Status of Sewage Management' which is presently under the scrutiny of the committee.

14.8.2 ACHIEVEMENTS MADE BY THE BOARD

- **Recognition of the Goa State Pollution Control Board under ISO 9001:2008 (Quality Management Systems)**

The TUV SUD South Asia Pvt. Ltd. auditing body has certified GSPCB under ISO 9001:2008 (Quality Management Systems) and granted it accreditation to the said system. The certifying body has also approved one Management Representative. The accreditation is valid for two years.

- **Launching of New Webpage of GSPCB website**

The new webpage of the Goa State Pollution Control Board website was officially launched on the occasion of the 'World Environment Day 2012' i.e., on 5th June, 2012 at the hands of the Deputy Chief Minister, Shri Francis D'Souza. Also present during the launching were Chairman, Goa State Pollution Control Board, Dr. Simon de Sousa, Director, Directorate of Science, Technology & Environment, Shri Michael D' Souza and Scientist 'E' from Central Pollution Control Board, Dr.D. D. Basu.



Plate-14 a: Launching of new webpage of GSPCB website



Plate-14 b: Dignitaries present during the launching of new webpage

Subsequently, the website became fully operational on 10th October, 2012.

11.9 CELEBRATION OF WORLD ENVIRONMENT DAY

The Board celebrates World Environment Day (WED) on 5th June annually in line with the UNEP theme for 2012 i.e. **“Green Economy: Does it include you?”** The theme basically stressed on doing business in a green manner or in other words creating an economic environment that achieves low Carbon Emissions, resource efficiency, sound waste management and at the same time is society friendly and inclusive.

GSPCB celebrated WED with active participation from industries, staff and staff children and also involved the public in major towns. The celebrations were held on 3rd & 5th of June'2012.

- GSPCB had decided to impart awareness at the earliest age possible; hence a poster Competition was organized for the children of the staff on the WED theme “How to green my home?” And children were asked to put forth their ideas on how they can help live greener lives at home.



Plate-14-c: Children's poster competition



Plate-14-d: First Prize Jr.Category : Kezia DaCosta



Plate-14-e: First Prize Sub. Jr.Category: Keane Fernandes



Plate-14-f: First Prize Sr.Category: George Dias

- GSPCB also imparted awareness to its staff by organizing an Environment Quiz competition for the Board staff based on the WED theme.
- The industries were assessed for their best initiatives on best Environmental Technology/Practices towards environmental sustainability along with the Environmental & Financial benefits incurred there on. The same was subsequently presented to a panel of experts along with a Power Point presentation on the same.



Plate-14-g: Environment Quiz competition



Plate-14-h Best Environmental Practices competition

The best three initiatives/posters/teams were selected and suitably awarded with certificates and Plaques on 5th June'2012.

On the 5th of June '2012

- A street play titled "Dhartari VaachayaatVvanvshaaval Tigayaat" on the WED theme was enacted by the Vivekananda Environment Awareness Brigade, Keri Satteri at all major towns of Panaji, Vasco & Margao to spread the awareness to the public at large.
- An Awareness program was imparted by Shri Martin Ghosh, Plant Head-Syngenta on "Green Economy-Does it include you? "- An Industry Perspective.



Plate-14-i: Street play at Panaji



Plate-14-j: Street play at Vasco



Plate-14-k: Street play at Madgaon



Plate-14-l: Shri Martin Ghosh-Plant Head Syngenta



Plate-14-m: Environmental Awareness program

The prizes were distributed at the hands of Hon. Dy. Chief Minister of Goa, Shri Francis D'Souza, in the presence of Shri Michael D'Souza, Director-STE & Dr.Simon DeSouza, Chairman Goa State Pollution Control Board, Shri Srinet kotwale, Member Secretary GSPCB and other dignitaries.



Plate-14-n: Lighting of the lamp



Plate-14-o: BEP: WED audience



Plate-14-p: BEP: 1st Prize M/s Sesa Goa



Plate-14-q: BEP: 2nd Prize M/s Siemens



Plate-14-r: BEP: 3rd Prize M/s Goa Glass Fibre



Plate 14-s: Board Staff recognition of participation



Plate-14-t: Childrens Poster Competition prize



Plate-14-u: Board Staff prize distribution

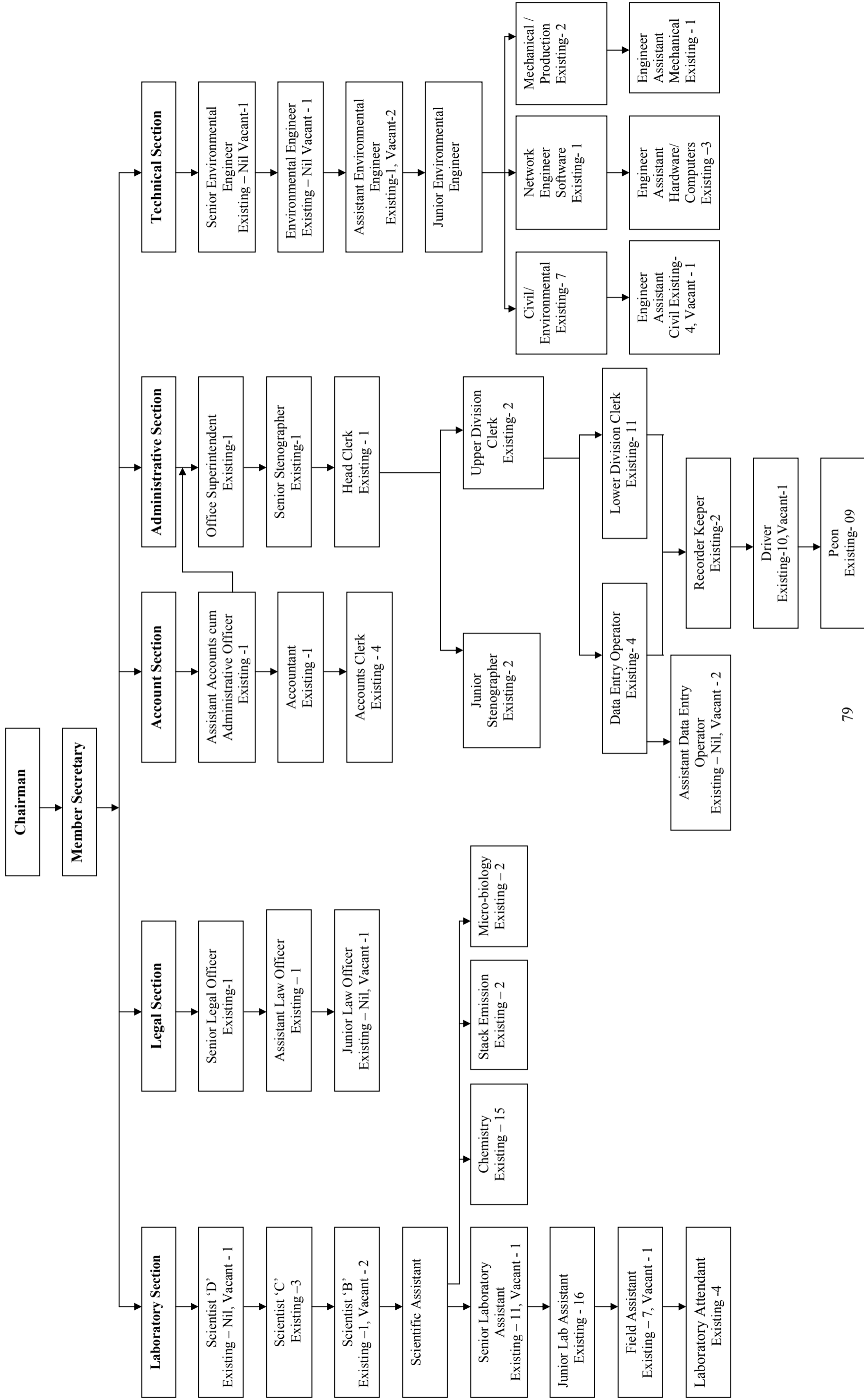


Plate-14-v: Address by the chief guest

14.10 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 at work place were received by the Board during the financial year covered by this report.

Annexure I
ORGANISATION CHART FOR GOA STATE POLLUTION CONTROL BOARD



ANNEXURE II

LIST OF APPLICATIONS FOR CONSENTS TO ESTABLISH/OPERATE UNDER WATER (PREVENTION & CONTROL OF POLLUTION) ACT, 1974 AND AIR (PREVENTION & CONTROL OF POLLUTION) ACT, 1981 BIO-MEDICAL WASTE (MANAGEMENT & HANDLING) RULES, 1998 AND HAZARDOUS WASTE (MANAGEMENT & HANDLING) (AMENDMENT) RULES, 2000 PROCESSED AND APPROVED BY THE BOARD DURING THE YEAR 2012-2013.

Sr. No.	Name of the Industry	Category	Consent issue date	Air / Water / Hazardous
1	Shelsta Holiday Resort	L	Granted - 08/03/2013	AW
2	Bel Tower Resort Pvt Ltd	L	Granted - 08/03/2013	AW
3	12.5 Mld Sewage Treatment Plant	M	Granted - 08/03/2013	AW
4	Manipal Hospital	L	Granted - 08/03/2013	AWH
5	Casa De Cajino	S	Granted - 08/03/2013	AW
6	Mrs Maria Service Centre	S	Granted - 08/03/2013	AW
7	M/s Everest Enterprises	S	Granted - 08/03/2013	AW
8	Minco (India) Pvt Ltd	S	Granted - 08/03/2013	AW
9	M/s Vinson's Cottages	S	Granted - 08/03/2013	A
10	M/s Fahrenheit Hotels & Resorts (Shree Par Fragrance Pvt. Ltd.)	S	Granted - 08/03/2013	AWH
11	M/s Tasty Plastic Mouldings	S	Granted - 08/03/2013	AW
12	Viva	S	Granted - 08/03/2013	AWH
13	M/s Target Innovations	S	Granted - 08/03/2013	AW
14	M/s Mikrocarb Tools (Unit 1)	S	Granted - 08/03/2013	AW
15	M/s Sai Arts	S	Granted - 08/03/2013	AW
16	M/s Stanelec Private Ltd	S	Granted - 08/03/2013	AWH
17	M/s Golden Cashew Products	S	Granted - 08/03/2013	AW
18	M/s Shalini Metals	S	Granted - 08/03/2013	AW
19	Viva Furniture	S	Granted - 08/03/2013	CTE
20	M/s Shriji Polymers India Ltd.	M	Granted - 08/03/2013	AW
21	Amigo Plaza	S	Granted - 08/03/2013	AW
22	Glynwed Pipe Systems India Private Limited	L	Granted - 08/03/2013	AWH
23	Lemon Tree Amarante Beach Resort	M	Granted - 08/03/2013	AWH
24	Goan Hotels And Clubs Pvt Ltd	L	Granted - 08/03/2013	AWH
25	Shreegurukrupa Autoworld	M	Granted - 08/03/2013	AW
26	The Indian Hotels Co. Ltd. Unit : Vivanta By Taj - Fort Aguada, Goa.	L	Granted - 08/03/2013	AWH
27	Sesa Goa Limited, Head Office	S	Granted - 08/03/2013	AW
28	Kamaxi Body Builders	S	Granted - 08/03/2013	AW
29	Buildmore Infrastructure India Pvt Ltd.	M	Granted - 08/03/2013	AW
30	Global Conveyor Systems Pvt. Ltd.	S	Granted - 08/03/2013	AW
31	Quality Exports	S	Granted - 01/03/2013	AWH

32	Shail Foods And Packing Pvt. Ltd.	S	Granted - 01/03/2013	W
33	Asian Industries	S	Granted - 01/03/2013	AW
34	F.N.Industries	S	Granted - 01/03/2013	A
35	Murasit Bauchemie (Goa) Pvt.Ltd.	S	Granted - 01/03/2013	AW
36	Mrf Ltd.	L	Granted - 01/03/2013	W
37	M/s Prateek Alloys Pvt. Ltd.	S	Granted - 01/03/2013	CTE
38	Gkb Vision Ltd	L	Granted - 01/03/2013	A
39	Goa Shipyard Limited Unit-2	S	Granted - 01/03/2013	AW
40	M/s Sateri Rice & Flour Mill	S	Granted - 01/03/2013	AW
41	M/s A. K. Steel	S	Granted - 01/03/2013	AW
42	Borkar Packaging Pvt. Ltd	L	Granted - 01/03/2013	AW
43	Hotel Neptune	S	Granted - 01/03/2013	A
44	Milroc Good Earth Property & Developers L.L.P (Milroc Kadamba)	L	Granted - 01/03/2013	AWH
45	M/s Sai Plastics	S	Granted - 01/03/2013	W
46	M/s Goldfield Fragrances	S	Granted - 01/03/2013	AWH
47	Ms. Hotel Astoria	S	Granted - 01/03/2013	AW
48	M/s Silicon Cortech Pvt Ltd	M	Granted - 01/03/2013	AWH
49	M/s Maruska Stone Industry	S	Granted - 01/03/2013	AW
50	Super Services	S	Granted - 01/03/2013	AW
51	Suresh B. Naik	S	Granted - 01/03/2013	AWH
52	Fun Cream Foods (I) Ltd	L	Granted - 01/03/2013	AWH
53	Close 2 C Holiday House	S	Granted - 01/03/2013	AW
54	M/s.Harry S Bar & Restuarant	L	Granted - 01/03/2013	AW
55	Western India Shipyard Limited	M	Granted - 21/02/2013	AW
56	M/s R. C. Metal Industries	S	Granted - 21/02/2013	AW
57	M/s Sony Garage	S	Granted - 21/02/2013	AW
58	Shinde Packaging Pvt Ltd	S	Granted - 21/02/2013	AW
59	Aparant Iron And Steel Private Limited	L	Granted - 12/02/2013	AW
60	Smartlink Network Systems Limited	L	Granted - 12/02/2013	AWH
61	Adhar Precision Industries	S	Granted - 12/02/2013	AW
62	M/s Dynaquip Engineers	S	Granted - 12/02/2013	AWH
63	M/s Marine Electrical Agencies	S	Granted - 12/02/2013	CTE
64	M/s West Coast Shipyard	S	Granted - 12/02/2013	W
65	Sesa Industries Limited	L	Granted - 30/01/2013	AW
66	Mandovi Shipyard Private Limited	S	Granted - 21/01/2013	A
67	Muktar Minerals Pvt Ltd	S	Granted - 21/01/2013	AW
68	M/s Rotek Industries	S	Granted - 17/01/2013	AW
69	E.Dalian Holiday Village	S	Granted - 17/01/2013	CTE
70	M/s National Paper Industries	S	Granted - 17/01/2013	CTE
71	Shalom Guest House	S	Granted - 17/01/2013	W

72	M/s Samant Blocks	S	Granted - 17/01/2013	AW
73	M/s Agrawal Renewable	S	Granted - 17/01/2013	CTE
74	Hotel Jasmine	L	Granted - 17/01/2013	AW
75	Marigold Hotel	M	Granted - 17/01/2013	A
76	Sara Industries	S	Granted - 17/01/2013	W
77	M/s Indo Plast	S	Granted - 17/01/2013	CTE
78	Cadila Healthcare Ltd.	L	Granted - 17/01/2013	CTE
79	M/s. Power Control	S	Granted - 14/01/2013	AW
80	M/s. Colmar Hotels Pvt. Ltd., (Colmar Beach Resort)	S	Granted - 14/01/2013	CTE
81	M/s. Colmar Hotels Pvt. Ltd., (Colmar Beach Resort)	S	Granted - 14/01/2013	W
82	Guala Closures (India) Pvt Ltd	S	Granted - 14/01/2013	AWH
83	Rmc Readymix (India)	S	Granted - 14/01/2013	AWH
84	C N K Polymer Products Pvt. Ltd.	S	Granted - 14/01/2013	AW
85	Coach Care Center, Konkan Railway Corporation Limited,	S	Granted - 14/01/2013	W
86	Nestle India Limited	L	Granted - 14/01/2013	AWH
87	Glenmark Genercis Limited (Plant li)	L	Granted - 14/01/2013	AWH
88	Sun Village	S	Granted - 14/01/2013	WH
89	Sun Village	S	Granted - 14/01/2013	A
90	M/s. Devyani Food Industries Pvt. Ltd.	L	Granted - 14/01/2013	AWH
91	Su-Raj Diamonds & Jewellery Ltd.	L	Granted - 14/01/2013	AWH
92	M/s Marian Carvalho & Sons (Unit li)	S	Granted - 14/01/2013	AW
93	Chowgule Industries Pvt. Ltd. Unit II (Sml Div.)	S	Granted - 14/01/2013	AWH
94	Emgee Housing Pvt Ltd	L	Granted - 14/01/2013	CTE
95	Umiya Builders And Developers	S	Granted - 14/01/2013	W
96	Umiya Builders And Developers	S	Granted - 14/01/2013	W
97	M/s Laxmi Industries	S	Granted - 14/01/2013	AW
98	Usha Adventure Hotels Ltd.(Varca Palms Beach Resort)	S	Granted - 14/01/2013	AWH
99	M/s Hotel Matashree	S	Granted - 14/01/2013	AW
100	Sea Pearl Hotel	S	Granted - 14/01/2013	AW
101	Acron Hospitality Pvt. Ltd.	L	Granted - 14/01/2013	AW
102	Universal Cables Ltd	L	Granted - 14/01/2013	CTE
103	M/s Magsons Network Pvt . Ltd.	S	Granted - 14/01/2013	W
104	Joet Guest House	S	Granted - 14/01/2013	AW
105	M/s Shalini Hotel	S	Granted - 14/01/2013	AW
106	Pravin Electricals Pvt. Ltd.	S	Granted - 14/01/2013	A
107	M/s Hotel Padmavi	S	Granted - 14/01/2013	W
108	M/s Aguada Management Company (Aguada Anchorage)	S	Granted - 14/01/2013	AWH
109	M/s Vel-Vin Packaging Pvt. Ltd	S	Granted - 14/01/2013	AW

110	Mystical Polycontainers Private Ltd	M	Granted - 14/01/2013	AW
111	M/s Sadchidanand Constructions	S	Granted - 14/01/2013	AW
112	Goa Steels Ltd.	L	Granted - 14/01/2013	AW
113	s. M. Cold Retreads	S	Granted - 14/01/2013	AW
114	Group Housing	S	Granted - 14/01/2013	CTE
115	Schiffer & Menezes India Pvt Ltd. Unit li Dta	M	Granted - 24/12/2012	CTE
116	Shail Foods And Packging Pvt. Ltd.	S	Granted - 24/12/2012	A
117	Britacel Silicones Ltd.	S	Granted - 24/12/2012	A
118	Geno Pharmaceuticals Limited	L	Granted - 17/12/2012	W
119	Glenmark Pharmaceutical Limited	S	Granted - 17/12/2012	AWH
120	Indoco Remedies Limited	L	Granted - 17/12/2012	AWH
121	Sociadade De Fomento Industrial Pvt. Ltd	L	Granted - 17/12/2012	CTE
122	M/s Sayed Bakery	S	Granted - 17/12/2012	AW
123	M/s Pooja Cashewnut Industry	S	Granted - 17/12/2012	AW
124	Sukhsagar Beach Resort	S	Granted - 17/12/2012	AW
125	Viva	S	Granted - 17/12/2012	CTE
126	launderaids	S	Granted - 17/12/2012	A
127	M/s M Fabricators	S	Granted - 04/12/2012	W
128	Auto Window India Pvt. Ltd.	S	Granted - 04/12/2012	AW
129	Horizon View Guest House	S	Granted - 04/12/2012	W
130	M/s. Electroshine	S	Granted - 04/12/2012	AWH
131	Mallikarjun Industries	S	Granted - 04/12/2012	AW
132	Imperial Distillers & Vinters Pvt Ltd	S	Granted - 04/12/2012	CTE
133	Hotel Sona	S	Granted - 04/12/2012	W
134	M/s Keni Hotels Pvt Ltd.	S	Granted - 04/12/2012	AWH
135	The Executive Engineer Works Division Xxi (Phe)	M	Granted - 04/12/2012	AW
136	M/s Mahalasa Cement Product	S	Granted - 04/12/2012	AW
137	Timblo Enterprises	L	Granted - 04/12/2012	AW
138	Associated Woodrums Manufacturing Pvt. Ltd.	S	Granted - 04/12/2012	AW
139	Acron Hospitality Pvt Ltd.	S	Granted - 04/12/2012	CTE
140	Goa Art Printers	M	Granted - 04/12/2012	A
141	M/s Packraft Industries	S	Granted - 04/12/2012	CTE
142	M/s Gajantlaxmi Industries	S	Granted - 04/12/2012	AW
143	E-Boshan	S	Granted - 04/12/2012	AWH
144	Sigma Laboratories	S	Granted - 04/12/2012	AWH
145	Unichem Laboratories Limited	L	Granted - 04/12/2012	AWH
146	Encube Ethicals Pvt Ltd	M	Granted - 04/12/2012	AWH
147	Titan Timeproducts Ltd.	L	Granted - 04/12/2012	A
148	Natekar Agro	S	Granted - 04/12/2012	CTE

149	Sanofi India Limited	L	Granted - 04/12/2012	CTE
150	Lafarge Aggregates & Concrete India Pvt. Ltd.	S	Granted - 04/12/2012	AWH
151	M/s Goa Rajee Auto Pvt Ltd	S	Granted - 04/12/2012	AWH
152	All Seasons Beach Classic	S	Granted - 04/12/2012	W
153	Kundil Rolling Mills Pvt Ltd	M	Granted - 19/11/2012	AW
154	Arun Sheet Metal Works	S	Granted - 19/11/2012	AW
155	Tata Consultancy Services Ltd.	L	Granted - 19/11/2012	AW
156	Abbott India Limited	L	Granted - 19/11/2012	CTE
157	Godwin Ship Repairs	L	Granted - 19/11/2012	AW
158	Amit C Prabhu	S	Granted - 19/11/2012	CTE
159	E. P. Industries	S	Granted - 19/11/2012	AWH
160	Delta Hospitality And Entertainment Pvt. Ltd.	L	Granted - 19/11/2012	AWH
161	Raffle Square Development Pvt Ltd.	L	Granted - 19/11/2012	AW
162	Coastal Sports Ventures Pvt. Ltd.	M	Granted - 19/11/2012	AW
163	Abdul Two Wheeler Repair Center	S	Granted - 19/11/2012	AW
164	M/s Dauji Ice Plant	S	Granted - 19/11/2012	AW
165	M/s Superior Cap Mouldings Pvt. Ltd.	S	Granted - 19/11/2012	AW
166	Quality Granite	S	Granted - 19/11/2012	CTE
167	M/s Alan's Meat Products	S	Granted - 19/11/2012	CTE
168	M/s Milestone Foods	M	Granted - 19/11/2012	CTE
169	Sixteen Degrees North	S	Granted - 19/11/2012	AWH
170	M/s Rahul Foods	S	Granted - 19/11/2012	AW
171	C'Roque Resort	L	Granted - 19/11/2012	A
172	Majorda Beach Resort	S	Granted - 19/11/2012	AWH
173	Golden Globe Hotels Pvt. Ltd.,	M	Granted - 16/11/2012	AW
174	Tarika's Sea Breeze Holiday Homes Unit Of M/s Ranjana Overseas Pvt Ltd	L	Granted - 09/11/2012	AW
175	V.M. Salgoankar And Brothers Pvt. Ltd. - M.V. Boa Sorct	M	Granted - 05/11/2012	AW
176	Acron Developers Pvt. Ltd. Viscente Green	S	Granted - 01/11/2012	CTE
177	Vivajay Brushes (Goa)	M	Granted - 30/10/2012	A
178	Shetye Builders	S	Granted - 30/10/2012	CTE
179	M/s Ferdie's Metal Industries	S	Granted - 30/10/2012	CTE
180	M/s P. K. Metal Crusher & Industries	S	Granted - 30/10/2012	A
181	Sika India Pvt. Ltd.	M	Granted - 30/10/2012	AWH
182	M/s Greenpeace Guesthouse	S	Granted - 30/10/2012	W
183	M/s Halarnkar Industries	S	Granted - 30/10/2012	AW
184	M/s. Mahindra Holidays And Resorts (I) Ltd. (Club Mahindra)	L	Granted - 30/10/2012	AWH
185	Colva Tavern Private Limited	S	Granted - 30/10/2012	AW
186	M/s Marksans Pharma Ltd.	L	Granted - 30/10/2012	A

187	M/s Marksans Pharma Ltd.	L	Granted - 30/10/2012	W
188	Corlim Marine Exports Pvt.Ltd.	S	Granted - 30/10/2012	AWH
189	M/s. Indotech Ice And Cold Storage - Unit- li	S	Granted - 30/10/2012	W
190	M/s. Indotech Ice And Cold Storage - Unit- li	S	Granted - 30/10/2012	AH
191	Precitech Components	S	Granted - 30/10/2012	AW
192	Aparant Iron And Steel Private Limited	L	Granted - 30/10/2012	AW
193	Villa Julieta	L	Granted - 30/10/2012	AW
194	Chemtech Industries Pvt. Ltd	S	Granted - 30/10/2012	AW
195	Protek Systems	S	Granted - 30/10/2012	AW
196	Micro Labs Limited	L	Granted - 23/10/2012	AWH
197	K.B.Wood Works	S	Granted - 23/10/2012	AW
198	Kishan Auto Engineering	L	Granted - 23/10/2012	AW
199	Amey Saiesh Residency	S	Granted - 23/10/2012	AWH
200	Hotel Mandarin	S	Granted - 23/10/2012	W
201	M/s Palette Hotel India Pvt. Ltd.	M	Granted - 23/10/2012	AW
202	M/s Kudnekar Granites	S	Granted - 19/10/2012	W
203	goa Mall Cum Hotel	S	Granted - 19/10/2012	CTE
204	Akar Creations Pvt. Ltd. (Akar Excelsior)	S	Granted - 12/10/2012	CTE
205	M/s Boomerang Bar & Restaurant	S	Granted - 10/10/2012	AW
206	M/s. Starflex Sealing India Pvt. Ltd.	M	Granted - 10/10/2012	AW
207	M/s Casino Motels	S	Granted - 10/10/2012	AW
208	Martin's Comfort	M	Granted - 10/10/2012	AW
209	Novacare Drug Specialities Pvt. Ltd.	M	Granted - 10/10/2012	AW
210	M/s Muktar Infrastructure (India) Pvt Ltd	S	Granted - 10/10/2012	AWH
211	Marmagao Steel Limited	L	Granted - 10/10/2012	A
212	Sam's Guest House	S	Granted - 10/10/2012	AW
213	Lark Wires & Infotech Limited	L	Granted - 09/10/2012	AW
214	Karthik Inductions Ltd	S	Granted - 09/10/2012	AW
215	Imperial Petrotech Ltd	L	Granted - 08/10/2012	CTE
216	Vinayak Distilleries Pvt. Ltd.	S	Granted - 08/10/2012	AW
217	Ajanata Medicals Pvt Ltd	L	Granted - 08/10/2012	AW
218	Soham Leisure Ventures Private Ltd	L	Granted - 08/10/2012	CTE
219	Ashley Resort Pvt. Ltd. Adamo The Bellus	M	Granted - 08/10/2012	AWH
220	Shubham Printers	S	Granted - 08/10/2012	AW
221	M/s National Paper Industries	S	Granted - 08/10/2012	AW
222	Goa Meat Complex Ltd	S	Granted - 08/10/2012	AW
223	M/s Franco Caps	S	Granted - 08/10/2012	CTE
224	. Seahath Canning Company	S	Granted - 08/10/2012	AW
225	Prazeres Resorts	S	Granted - 08/10/2012	A
226	M/s Rizwan Plastic Industry	S	Granted - 08/10/2012	AWH

227	Maruti Beverages	S	Granted - 08/10/2012	AW
228	Himachal Futuristic Communications Ltd	L	Granted - 08/10/2012	AW
229	Chowgule & Company Private Limited	S	Granted - 08/10/2012	W
230	Sneha Real Estate Developer	S	Granted - 21/09/2012	CTE
231	Zuari Structural Works	L	Granted - 21/09/2012	CTE
232	M/s Shetye Distilleries Pvt. Ltd	S	Granted - 21/09/2012	CTE
233	M/s Parab Engineering Industries	S	Granted - 21/09/2012	CTE
234	M/s Power Lab	S	Granted - 21/09/2012	CTE
235	Shri Sai Fabrication	S	Granted - 21/09/2012	CTE
236	M/s. Lotlikar Fabtech	S	Granted - 21/09/2012	CTE
237	M/s Vijayalaxmi Flour And Masala Mill	S	Granted - 21/09/2012	CTE
238	Melodious Waves Beach Holiday Home	S	Granted - 21/09/2012	AW
239	Shrem Resort Pvt. Ltd	L	Granted - 21/09/2012	CTE
240	M/s Aishwarya Bakery	S	Granted - 18/09/2012	AW
241	Reliance Engineering & Electicals Corporation	S	Granted - 18/09/2012	CTE
242	M/s Jyothi Electricals	S	Granted - 18/09/2012	CTE
243	M/s Bhagyashri Printing & Stationary	S	Granted - 18/09/2012	CTE
244	M/s Suman Engineers	S	Granted - 18/09/2012	CTE
245	M/s Xavier Tooling Enterprises	S	Granted - 18/09/2012	AW
246	Frederick Enterprises	S	Granted - 18/09/2012	W
247	Mardolkar Marine Engineering Works	S	Granted - 18/09/2012	AW
248	Ulka Seafoods Pvt. Ltd.	M	Granted - 18/09/2012	AW
249	Chowgule Industries Pvt. Ltd	L	Granted - 18/09/2012	AWH
250	United Spirits Ltd.	L	Granted - 12/09/2012	AWH
251	Skylark Resort	S	Granted - 12/09/2012	AWH
252	M/s. Goa Resorts	S	Granted - 12/09/2012	AWH
253	M/s. Goa Resorts	S	Granted - 12/09/2012	AWH
254	Vimani Engineering Works	S	Granted - 12/09/2012	AW
255	Alcon Cement Company Pvt. Ltd.	L	Granted - 12/09/2012	AWH
256	Mc Bauchemie (India) Pvt.Ltd.	S	Granted - 12/09/2012	CTE
257	Tcpl Packaging Limited	L	Granted - 12/09/2012	AW
258	Alcon Holiday Village	S	Granted - 12/09/2012	AW
259	Vijay Engineers	L	Granted - 12/09/2012	W
260	M/s Westwood Residency Guest House	S	Granted - 12/09/2012	AW
261	Sandalwood Resorts Private Ltd.	L	Granted - 12/09/2012	AW
262	Royale Assagao	S	Granted - 12/09/2012	AW
263	Nanu Industries	S	Granted - 12/09/2012	AW
264	Bharat Industries	S	Granted - 12/09/2012	AW
265	Royal Phoenix Inn	S	Granted - 12/09/2012	W
266	M/s Oriental Containers Ltd	L	Granted - 12/09/2012	AWH

267	M/s Goa Instruments	M	Granted - 12/09/2012	AW
268	M/s Ashwin Foods	S	Granted - 12/09/2012	CTE
269	M/s Tiger Sheet Metal Works (Unit II)	S	Granted - 12/09/2012	AWH
270	M/s Coqueiral Holiday Home	S	Granted - 12/09/2012	W
271	Vac Pac Products Pvt Ltd	M	Granted - 12/09/2012	CTE
272	Umicore Anandeya India	M	Granted - 12/09/2012	AWH
273	.2cosme Costa's Serenity	S	Granted - 12/09/2012	CTE
274	Sea Pal Guest House	S	Granted - 12/09/2012	W
275	Grand View Hotels Pvt. Ltd.	L	Granted - 12/09/2012	CTE
276	Hotel Vilela	S	Granted - 12/09/2012	W
277	John Adam Values India	L	Granted - 11/09/2012	AWH
278	Filtertechniks Private Limited	M	Granted - 11/09/2012	AW
279	Electro Services	S	Granted - 11/09/2012	AW
280	Electro Tech	S	Granted - 11/09/2012	AW
281	. Sea Queen Beach Resort Pvt. Ltd.,	S	Granted - 11/09/2012	AWH
282	. Sam Star Electrics.	S	Granted - 11/09/2012	AW
283	Gemini Distilleries (Goa) Pvt Ltd	M	Granted - 11/09/2012	AWH
284	Plasticon	M	Granted - 31/08/2012	AW
285	M/s Steelmec Industries	S	Granted - 31/08/2012	AWH
286	Vailankanni Coffin Makers	S	Granted - 14/08/2012	CTE
287	Nazri Resort	M	Granted - 01/08/2012	AW
288	Vailankanni Nest	S	Granted - 01/08/2012	AW
289	M/s Kalika Engineering Works	S	Granted - 25/07/2012	AW
290	M/s S.S Enterprises	S	Granted - 23/07/2012	AW
291	J. J Guest House	S	Granted - 23/07/2012	AW
292	M/s Springfield (India) Distilleries	S	Granted - 23/07/2012	AWH
293	M/s Sushant Associates	S	Granted - 23/07/2012	A
294	Maruti Beverages	S	Granted - 23/07/2012	W
295	Chowgule & Company Private Limited	S	Granted - 23/07/2012	A
296	Ronil Hotels & Resorts Pvt. Ltd.	M	Granted - 23/07/2012	AWH
297	Syngenta India Limited	L	Granted - 18/07/2012	CTE
298	Syngenta India Limited	L	Granted - 18/07/2012	W
299	. Sea Bird Resorts Pvt. Ltd.(Alila Diwa Goa)	L	Granted - 18/07/2012	AWH
300	Caurem Iron Ore Beneficiation Plant	S	Granted - 18/07/2012	AWH
301	Sanofi Synthelabo India Limited	L	Granted - 18/07/2012	AW
302	Caculo Earthmovers Pvt. Ltd	L	Granted - 18/07/2012	AW
303	Steelmec Industries	S	Granted - 18/07/2012	W
304	M/s Goa Granite	S	Granted - 18/07/2012	W
305	M/s Novel Furnishing	S	Granted - 18/07/2012	CTE
306	M/s Twenty First Century Iron & Steel Ltd	L	Granted - 17/07/2012	AWH

307	S. S Engineering Co.	S	Granted - 17/07/2012	AW
308	Miranda Metal Industries	S	Granted - 17/07/2012	AW
309	Fresh Logistics Ltd	M	Granted - 17/07/2012	AW
310	Shivsamarth Motoriders Pvt. Ltd.	S	Granted - 17/07/2012	A
311	Caculo Cars Pvt Ltd	L	Granted - 17/07/2012	AW
312	Esteem Industries Pvt. Ltd.,	M	Granted - 17/07/2012	A
313	Gulliem-E-Gaval (Pissurlem) Iron Ore Mine	M	Granted - 10/07/2012	AW
314	Pentair Water India Pvt. Ltd.	M	Granted - 10/07/2012	AW
315	M/s Ramkrishna Cashew Oil Industry	S	Granted - 10/07/2012	AW
316	North Shore Hotels	S	Granted - 10/07/2012	AW
317	m/s Damodar Metals	S	Granted - 10/07/2012	AW
318	Renuka Tyres And Treads	S	Granted - 09/07/2012	CTE
319	Ess Dee Aluminium Ltd.	L	Granted - 09/07/2012	AW
320	Mahalasa Servicing Centre	S	Granted - 09/07/2012	CTE
321	Shailesh Enterprises	S	Granted - 09/07/2012	AW
322	M/s The Sand Pebble Guest House	S	Granted - 09/07/2012	W
323	M/s Pebble Millenium Guest House	S	Granted - 09/07/2012	W
324	Lupin Limited	L	Granted - 09/07/2012	AWH
325	Sonatapes Private Limited	S	Granted - 09/07/2012	AWH
326	Vicky Service Center	S	Granted - 03/07/2012	CTE
327	Akash Fabrication	S	Granted - 02/07/2012	AW
328	Satpurush Industry Unit 2	S	Granted - 02/07/2012	AW
329	M/s Parekh Recycling	S	Granted - 02/07/2012	CTE
330	Goa Shipyard Limited, Unit Iv	S	Granted - 02/07/2012	CTE
331	Amiantit Fiberglass Industries (I) Pvt. Ltd.	S	Granted - 02/07/2012	AWH
332	Fdc Limited,	L	Granted - 02/07/2012	AW
333	Abbott India Limited	L	Granted - 02/07/2012	AWH
334	Philips Electronic India Limited	S	Granted - 02/07/2012	AH
335	Hindustan Petroleum Corporation Limited, Asf	S	Granted - 02/07/2012	AWH
336	Prabhu Group Of Industries	M	Granted - 21/06/2012	CTE
337	Quality Exports	S	Granted - 21/06/2012	CTE
338	M/s Kane Metals	S	Granted - 21/06/2012	A
339	Chowgule Industries Pvt. Ltd	L	Granted - 21/06/2012	AWH
340	Rmc Readymix (India)	S	Granted - 21/06/2012	AW
341	Anant V. Sarmalkar	L	Granted - 21/06/2012	AW
342	Shri. Jairam B. Neogui, Tembeachem Dongor Iron & Manganese Ore Mine	L	Granted - 21/06/2012	AWH
343	. Ferromar Shipping Pvt. Ltd.	S	Granted - 21/06/2012-RCN	CTE
344	Birla Furukawa Fibre Optics Limited	L	Granted - 21/06/2012	AWH
345	Bosch Limited	L	Granted - 21/06/2012	CTE

346	M/s Shamiraj Hotels Pvt. Ltd. (Hotel Sea Coin)	S	Granted - 21/06/2012	AWH
347	M/s Tin Pack Cans	S	Granted - 21/06/2012	AWH
348	M/s Bandekar Brothers Private Limited, Mobile Screening Plant-I	S	Granted - 21/06/2012	A
349	Tonia Estates & Resort Pvt. Ltd.	M	Granted - 21/06/2012	CTE
350	Abc Enterprises	S	Granted - 21/06/2012	CTE
351	Teracom Ltd	M	Granted - 21/06/2012	AW
352	The Country Club De Goa	M	Granted - 21/06/2012	AWH
353	Manohar Packagings Pvt Ltd	L	Granted - 19/06/2012	AW
354	Sainath Industrial Corporation	S	Granted - 13/06/2012	AW
355	Counto Metals & Mining Co. Ltd.	S	Granted - 13/06/2012	AW
356	Berger Becker Coatings Private Limited.,	S	Granted - 13/06/2012	AW
357	M/s Johton Autocoat	S	Granted - 13/06/2012	CTE
358	Upa Engineering Works	S	Granted - 11/06/2012	CTE
359	V.M. Salgaocar And Brother Private Limited-Hotel Division, Goa Marriott Resort	L	Granted - 11/06/2012	AW
360	M/s Madachem Bat Mines Private Limited	L	Granted - 11/06/2012	A
361	Polynova Industries Ltd	L	Granted - 11/06/2012	AWH
362	Nicomet Industries Ltd	S	Granted - 11/06/2012	AW
363	Triumph Reality Pvt Ltd	L	Granted - 11/06/2012	CTE
364	Popular Metals	S	Granted - 07/06/2012	W
365	Cam Industries Pvt Ltd	S	Granted - 07/06/2012	CTE
366	Star Beach Resort	S	Granted - 07/06/2012	AWH
367	Asian Food Industries	L	Granted - 07/06/2012	AW
368	M/s Sai Sham Service Station	S	Granted - 07/06/2012	AWH
369	Averina International Resort Pvt. Ltd	L	Granted - 07/06/2012	AW
370	Hotel Tanish	S	Granted - 07/06/2012	AWH
371	Whispering Palms Beach Resort	L	Granted - 07/06/2012	AWH
372	Universal Cables Limited (Unit: Optic Fibre Goa)	L	Granted - 07/06/2012	AW
373	Quality Exports	S	Granted - 07/06/2012	W
374	Procter & Gamble Hygiene & Health Care Ltd.	L	Granted - 06/06/2012	AW
375	Sesa Industries Limited	L	Granted - 06/06/2012	AWH
376	Nestle India Limited	L	Granted - 06/06/2012	CTE
377	Glenmark Genercis Limited (Plant I)	L	Granted - 06/06/2012	AW
378	global Engineers	S	Granted - 06/06/2012	AW
379	Hotel El Paso	S	Granted - 06/06/2012	AW
380	Parenteral Biotech Ltd.	L	Granted - 06/06/2012	CTE
381	M/s Prabhu Smaran Rest House	S	Granted - 06/06/2012	A
382	Diana Buildwell Limited	L	Granted - 06/06/2012	CTE
383	M/s Hidustan Container	M	Granted - 06/06/2012	AW

384	Bhavani Udhog	L	Granted - 28/05/2012	CTE
385	Shikerkar Building	S	Granted - 24/05/2012	CTE
386	Alpha Industries	S	Granted - 24/05/2012	AWH
387	Medispray Laboratories Pvt. Ltd.	L	Granted - 24/05/2012	AWH
388	M/s Ramkrishna Cashew Oil Industry	S	Granted - 24/05/2012	AWH
389	M/s. Ratan Housing Development Limited	S	Granted - 22/05/2012	CTE
390	M/s United Marine Products	S	Granted - 22/05/2012	AW
391	Tulip Diagnostics (P).Ltd.	S	Granted - 22/05/2012	WH
392	Nestle India Limited	L	Granted - 22/05/2012	AWH
393	Abbott India Limited	L	Granted - 22/05/2012	CTE
394	Hotel Oshin	L	Granted - 22/05/2012	CTE
395	M/s Denver Packaging	S	Granted - 21/05/2012	AW
396	Rudro Exports	S	Granted - 21/05/2012	CTE
397	Ameya Offset Printers	S	Granted - 21/05/2012	AW
398	Lucky Star (Unit. Hafizabad Real Estate Pvt. Ltd.)	M	Granted - 21/05/2012	AWH
399	A. L. Industries	S	Granted - 21/05/2012	AWH
400	Cap's Corner	L	Granted - 21/05/2012	AW
401	Big Daddy's Inn	S	Granted - 21/05/2012	AW
402	Langotem Villas	M	Granted - 21/05/2012	CTE
403	Rukminirama Steel Rollings Pvt Ltd Bricks Division Unit Iv	S	Granted - 21/05/2012	AW
404	M/s Electrotech Systems	S	Granted - 21/05/2012	AW
405	Amey Engineering & Printers	S	Granted - 21/05/2012	AW
406	Diamond Tool Industries	S	Granted - 21/05/2012	AW
407	Coral Clinical Systems	S	Granted - 21/05/2012	W
408	Puja Ferro Alloys Pvt. Ltd	M	Granted - 21/05/2012	AW
409	V. M. Salgaocar & Bro. Pvt. Ltd. (Mobile Screening & Crushing Plants) 4 Nos)	S	Granted - 21/05/2012	AW
410	Fabrizio Industries Pvt. Ltd.	L	Granted - 21/05/2012	AW
411	bharat Bakery	S	Granted - 21/05/2012	AW
412	Indo-Tech Ice And Cold Storage	S	Granted - 21/05/2012	CTE
413	Rajaram Bandekar (Sirigao) Mines Pvt Ltd	S	Granted - 21/05/2012	AW
414	Sociedade Timblo Irmaos Ltda	L	Granted - 21/05/2012	AWH
415	Himali Soap Products	L	Granted - 21/05/2012	AW
416	Canacona Hydrocarbons	S	Granted - 21/05/2012	AWH
417	Abab Industries	S	Granted - 21/05/2012	AWH
418	M/s. Orchid Printers Private Limited	L	Granted - 21/05/2012	AW
419	Trimurty Industry	S	Granted - 14/05/2012	AW
420	Cipla Ltd	L	Granted - 14/05/2012	AW
421	Dattatraya Fabrication Workshop	S	Granted - 14/05/2012	AW
422	Labartraj Enterprises	S	Granted - 14/05/2012	CTE

423	M/s Sagar Feeds & Food Processing Industries	S	Granted - 14/05/2012	AWH
424	M/s J L Pinto Fabrication	S	Granted - 09/05/2012	CTE
425	Unique Signboards & Allied Products	S	Granted - 07/05/2012	CTE
426	Ferns Service Station	S	Granted - 07/05/2012	AW
427	M/s J. K Block Factory	S	Granted - 07/05/2012	CTE
428	Zetta Communications Pvt Ltd	S	Granted - 07/05/2012	AWH
429	M/s Shanta Pumps (Unit II)	S	Granted - 07/05/2012	CTE
430	Syngenta India Limited	L	Granted - 07/05/2012	A
431	Sesa Goa Limited-Metcoke Division	L	Granted - 07/05/2012	AWH
432	Mandovi Shipyard Private Limited	S	Granted - 07/05/2012	AWH
433	Goa Thermopack Private Limited	S	Granted - 03/05/2012	AW
434	Finolex Cables Ltd (Ofc Division)	M	Granted - 03/05/2012	AW
435	Driftwood Holiday	L	Granted - 03/05/2012	AW
436	Kala Residency	S	Granted - 27/04/2012	CTE
437	M/s Angels Goan Special Masala	S	Granted - 27/04/2012	CTE
438	M/sjferns Engineering	S	Granted - 27/04/2012	CTE
439	Syngenta India Limited	L	Granted - 27/04/2012	A
440	Goa Sponge & Power Ltd	L	Granted - 27/04/2012	AW
441	M/s. Rani Constructions Private Limited	M	Granted - 27/04/2012	CTE
442	Deepti Marbles & Granites	L	Granted - 25/04/2012	W
443	M/s. Prestige Holiday Resorts Pvt. Ltd., (Royal Goan Beach Club At Monterio)	M	Granted - 24/04/2012	AW
444	Viola Trading Co.	S	Granted - 24/04/2012	AW
445	Savannah Surfactants Ltd	L	Granted - 24/04/2012	AW
446	The Sustainable Green Company	S	Granted - 23/04/2012	AW
447	Hotel Colva Kinara	M	Granted - 23/04/2012	AWH
448	Albright Aluminium Industries	S	Granted - 20/04/2012	AWH
449	Delanco Home & Resorts Pvt. And Bhamini Developers Real Estates Pvt. Ltd.	L	Granted - 20/04/2012	CTE
450	Nicomet Industries Ltd	S	Granted - 20/04/2012	AW
451	Mandovi Ice Plant	S	Granted - 19/04/2012	W
452	Riviera De Goa Resorts & Hotels Pvt. Ltd.	L	Granted - 17/04/2012	W
453	Mangal Iron Pvt. Ltd	M	Granted - 17/04/2012	AW
454	Tevapharm India Pvt. Ltd.	L	Granted - 17/04/2012	AW
455	Zephyr Biomedicals	L	Granted - 17/04/2012	AW
456	Caculo Earthmovers Pvt Ltd	L	Granted - 17/04/2012	AW
457	Panduronga Timblo	S	Granted - 17/04/2012	AW
458	Desai Cement Company Pvt Ltd	S	Granted - 17/04/2012	AW
459	Codon Biosciences Pvt Ltd	S	Granted - 17/04/2012	CTE
460	Shivam Combines	S	Granted - 17/04/2012	CTE
461	Goaware Filaments	S	Granted - 17/04/2012	AW

462	Mario Fernandes & Co.,	S	Granted - 17/04/2012	AW
463	Cabe Springs And Fasteners India Pvt Ltd	M	Granted - 13/04/2012	CTE
464	Hotel Neptune Deluxe	S	Granted - 11/04/2012	W
465	Chari Fabrication	S	Granted - 11/04/2012	CTE
466	Gurudas Engineering Works	S	Granted - 10/04/2012	CTE
467	The Hawaii Comforts	S	Granted - 10/04/2012	CTE
468	M/s Goa Hydraulics	S	Granted - 10/04/2012	AW
469	Nanotek Infra Projects Private Limited	S	Granted - 10/04/2012	CTE
470	M/s Fresenius Kabi India Private Limited	L	Granted - 10/04/2012	CTE
471	Fdc Limited	L	Granted - 10/04/2012	AWH
472	Glenmark Genercis Limited (Plant Ii)	L	Granted - 10/04/2012	CTE
473	Ifb Industries Ltd.	S	Granted - 10/04/2012	AW
474	Xirfod Barge Loading Jetty	S	Granted - 09/04/2012	A
475	Dmellos Sea View Home	S	Granted - 09/04/2012	AW
476	Real Bottling Factory Pvt Ltd	L	Granted - 09/04/2012	W
477	Manohar Packagings Pvt Ltd	L	Granted - 09/04/2012	H
478	The Crown Goa - Unit Of Vision Enterprises	S	Granted - 09/04/2012	AWH
479	M/s Goa Sagar Cashewnuts	S	Granted - 09/04/2012	AWH
480	R. K. Industrial Corporation	S	Granted - 09/04/2012	CTE
481	La Grande Residencia	S	Granted - 09/04/2012	A
482	Satpurush Industry Unit 2	S	Granted - 09/04/2012	CTE
483	M/s Commonwealth Developers Pvt Ltd.	L	Granted - 04/04/2012	AWH
484	The Indian Hotels Co. Ltd. Unit: Taj Exotica, Goa	L	Granted - 04/04/2012	AWH
485	Wyeth Limited	L	Granted - 04/04/2012	AWH
486	Berger Becker Coatings Private Limited.,	S	Granted - 03/04/2012	AWH
487	Marico Limited	L	Granted - 03/04/2012	AW
488	M/s R & H Spaces Pvt Ltd.	L	Granted - 03/04/2012	CTE
489	Clean Cat Conveyors Pvt Ltd(Unit Ii)	M	Granted - 03/04/2012	CTE
490	Shree Kamaxi Packaging Industries	M	Granted - 03/04/2012	CTE
491	M/s Prestige Holiday Resorts Pvt Ltd (Royal Palms)	L	Granted - 03/04/2012	AWH
492	M/s. Nitin Developers Pvt. Ltd.,	M	Granted - 03/04/2012	CTE
493	The Indian Hotels Co. Ltd. Unit: Vivanta By Taj-Holiday Village, Goa	L	Granted - 02/04/2012	CTE
494	Devashri Garden	S	Granted - 30/03/2012	A
495	Shree Gajanan Paper Industries	S	Granted - 30/03/2012	AW

ANNEXURE III

NWMP DATA FOR THE YEAR 2012 - 2013

Table 3-a: RIVER CHAPORA NEAR ALORNA FORT, PERNEM

Sr. No	Parameters	Apr-12	May-12	Jun-12	Jul-12	Aug-12	Sep-12	Oct-12	Nov-12	Dec-12	Jan-13	Feb-13	Mar-13
1	pH	6.3	7	6.9	6.98	6.54	6.4	7.04	7.14	6.97	7.6	7.75	6.72
2	Temperature °C	24	32	31	28	27	27	28	27	29	30	28	28
3	Conductivity µs/cm	6560	2315	69.9	70.8	51.8	55.6	54	67.1	5750	7020	108.81	6550
4	Dissolved Oxygen mg/l	5.86	6.84	7.16	6.9	7.4	7.5	7.7	7.2	6.7	7.1	7.3	6.9
5	Turbidity (NTU)	3.12	2.92	6.83	18.9	13.3	8.76	2.19	0.71	2.72	2.72	8.01	2.53
6	Nitrite Nitrogen mg/l	0.03	0.004	0.004	0.005	0.003	0.099	0.001	0.002	0.019	0.003	0.005	0.02
7	Nitrogen(Nitrate) mg/l	0.07	0.054	0.006	0.071	0.1	0.004	0.12	0.159	0.101	0	0.064	0.04
8	Phosphate mg/l	0.05	0.003	0.008	0.01	0.02	0.022	0.04	0.02	0.004	0.074	0.005	BDL
9	BOD mg/l	1.64	1.61	1.64	0.1	0.4	0.6	1.6	1.2	1.6	1.1	1.3	2.1
10	COD mg/l	4	5	10	1	3	5	3	5	4	16	3	9
11	Chloride mg/l	1735.63	935.88	990.12	4.24	4.18	4.15	4.24	4.71	1900	1414.46	12.54	1377.6
12	Fecal Coliform MPN/100 ml	NIL	7	11	1100	1700	200	2300	1100	1300	1300	780	1300
13	Total Coliform MPN/100 ml	165	160	210	7900	3300	1300	4600	1700	2300	2300	1700	2300
14	Ammonia mg/l	0.03	0.093	0.31	0.621	0.035	0.294	0.04	0.077	0.062	0.097	0	0.04

Table 3-b: RIVER KALNA AT CHANDEL, PERNEM 2012-2013

Sr. No	Parameters	Apr-12	Jul-12	Aug-12	Sep-12	Oct-12	Nov-12	Dec-12	Jan-13	Feb-13	Mar-13
1	pH	6.94	6.88	6.3	6.3	6.88	7.11	7.1	7.41	6.79	6.92
2	Temperature °C	27	26	28	27	28	27	27	29	26	103.1
3	Conductivity µs/cm	78.6	38.2	48.6	47.3	55.1	62.2	84.3	83.41	58.7	
4	Dissolved Oxygen mg/l	6.83	7	7.2	7.4	7.9	7.8	7.1	6.5	7	6.6
5	Turbidity (NTU)	2.37	53.2	20.9	14.3	2.99	0.62	2.21	4.13	3.78	1.86
6	Nitrite Nitrogen mg/l	0.002	0.006	0.002	0.005	0.001	0.004	0.001	0.002	0.002	0.01
7	Nitrogen(Nitrate) mg/l	0.08	0.104	0.09	0.063	0.12	0.094	0.038	0.106	0.052	0.08
8	Phosphate mg/l	0.02	0.02	0.03	0.029	0.03	0.031	0.019	0.037	0.008	0.01
9	BOD mg/l	1	0.08	0.2	0.5	0.4	1.1	0.5	2.1	0.8	1.5
10	COD mg/l	NIL	0.14	2	3	5	4		15	3	7
11	Chloride mg/l	33.75	2.36	2.3	2.3	5.18	3.3	8.08	1.89	0.96	0.48
12	Fecal Coliform MPN/100 ml	NIL	1700	1300	200	2300	2300	780	780	1300	780
13	Total Coliform MPN/100 ml	14	13000	3300	4900	4900	3300	1300	1700	1700	1700
14	Ammonia mg/l	0.04	0.187	0.048	0.253	0.028	0.039	0.011	0.13	0.076	0.03

Table 3-c: RIVER MAPUSA ON CULVERT ON HIGHWAY MAPUSA-PANAJI 2012-2013

Sr. No	Parameters	Apr-12	May-12	Jun-12	Jul-12	Aug-12	Sep-12	Oct-12	Nov-12	Dec-12	Jan-13	Feb-13	Mar-13
1	pH	6.45	7	6.5	6.63	6.11	6.03	6.8	6.8	6.7	7.2	6.81	6.54
2	Temperature °C	29	34	34	28	29	28	30	27	28	29	28	29
3	Conductivity µs/cm	14250	16.32	77400	107.6	144.5	82.6	1154	1358	5820	13310	15800	18800
4	Dissolved Oxygen mg/l	6.83	4.56	4.88	4.4	4	4.7	2.6	3.7	5.8	5.2	5.3	3.1
5	Turbidity (NTU)	2.25	2.09	8.25	33.9	13.8	13.2	2.31	2.31	1.74	2.54	2.22	2.54
6	Nitrite Nitrogen mg/l	0.005	0.007	0.02	0.021	0.011	0.006	0.01	0.007	0.004	0.007	0.006	0.01
7	Nitrogen(Nitrate) mg/l	0.09	0.124	0.25	0.149	0.26	0.074	0.22	0.228	0.104	0.15	0.142	0.13
8	Phosphate mg/l	0.04	0.028	0.05	0.06	0.04	0.028	0.04	0.025	0.025	0.006	0.013	0.01
9	BOD mg/l	1.31	1.95	3.26	1.7	1.2	1.2	6.2	1.3	4.4	2.5	2.8	1.8
10	COD mg/l	16	19	18	17	5	2	38	12		17	16	28
11	Chloride mg/l	4580.14	5147.34	3153.95	14.62	21.83	9.22	297	377.19	1948	471.41	4676.56	5557.85
12	Fecal Coliform MPN/100 ml	NIL	14	9	3100	2600	NIL	2200	780	2300	1100	1700	1100
13	Total Coliform MPN/100 ml	110	220	175	22000	13000	7900	3400	1300	4900	1700	3300	1700
14	Ammonia mg/l	0.07	0.129	1.84	1.164	2.97	0.493	0.19	0.107	0.039	0.126	0.236	0.06

Table 3-d: RIVER ASSANORA AT ASSANORA 2012-2013

Sr. No	Parameters	Apr-12	Jul-12	Aug-12	Sep-12	Oct-12	Nov-12	Dec-12	Jan-13	Feb-13	Mar-13
1	pH	6	6.2	5.82	6.65	6.38	6.95	6.87	6.74	7.18	6.68
2	Temperature °C	30	28	27	28	29	29	28	27	31	31
3	Conductivity µs/cm	75.1	58.2	59.8	50.5	50.5	58.2	163.3	58.26	82.68	73.18
4	Dissolved Oxygen mg/l	5.85	6.9	6.5	6.6	6.9	6.8	6.8	6.4	6.3	6.6
5	Turbidity (NTU)	3.9	3.92	6.25	3.74	3.95	7.88	8.64	4.8	5.25	17.32
6	Nitrite Nitrogen mg/l	0.002	0.003	0.003	0.001	0.003	0.007	0.004	0.003	0.003	0.01
7	Nitrogen(Nitrate) mg/l	0.1	0.179	0.29	0.089	0.098	0.089	0.03	0.086	0.04	0.08
8	Phosphate mg/l	0.05	0.01	0.01	0.008	0.01	0.02	0.01	0.006	0.01	0.02
9	BOD mg/l	1.27	0.5	0.9	2.6	1.8	2.1	1.5	1	1.1	1.8
10	COD mg/l	7	5	8	3	11	3	4	5	7	15
11	Chloride mg/l	6.75	7.07	6.04	3.2	3.28	8.49	35.36	4.75	9.43	46.68
12	Fecal Coliform MPN/100 ml	NIL	NIL	NIL	4900	2300	2100	680	1300	400	4900
13	Total Coliform MPN/100 ml	12	<1.8	780	13000	3300	4900	1700	1700	1100	7000
14	Ammonia mg/l	0.03	0.068	0.035	0.03	0.061	0.042	0.01	0.003	0.03	0.04

Table 3-e: RIVER VALVANTI AT SANQUELIM 2012-2013

Sr. No	Parameters	Apr-12	Jul-12	Aug-12	Sep-12	Oct-12	Nov-12	Dec-12	Jan-13	Feb-13	Mar-13
1	pH	6.3	6.09	5.89	6.7	6.5	6.73	6.6	6.29	7.22	7.07
2	Temperature °C	34	28	26	28	33	30	27	28	31	32
3	Conductivity µs/cm	77.6	51.8	48	51.5	58.7	52.2	67	64.41	65.3	116.52
4	Dissolved Oxygen mg/l	6.5	7.2	7.4	6.6	7.5	7.4	7.2	5.8	6.7	7.4
5	Turbidity (NTU)	4.12	5.64	3.2	17.9	4.5	3.86	4.32	4.27	2.95	2.33
6	Nitrite Nitrogen mg/l	0.003	0.002	0.001	0.008	0.003	0.003	0.005	0.003	0.003	BDL
7	Nitrogen(Nitrate) mg/l	0.08	0.197	0.28	0.12	0.066	0.086	0.07	0.104	0.05	0.04
8	Phosphate mg/l	0.02	0.07	0.01	0.031	0.009	0.01	0.01	0.013	0.004	0.01
9	BOD mg/l	2.58	0.8	1.5	1.5	2.5	0.5	1.1	0.2	1.1	1.2
10	COD mg/l	8	3	7	2	10	3	2	8	2	2
11	Chloride mg/l	11.57	4.24	4.64	0.46	5.62	6.13	5.66	4.75	4.71	65.54
12	Fecal Coliform MPN/100 ml	4	680	1700	11000	2300	3100	1700	3300	780	3300
13	Total Coliform MPN/100 ml	160	3300	13000	24000	4900	7000	4800	7900	3300	4900
14	Ammonia mg/l	0.009	0.321	0.05	0.052	0.006	0.011	0.011	0.007	0.03	0.04

Table 3-f: RIVER MADEI AT DABOSE, VALPOI 2012-2013

Sr. No	Parameters	Apr-12	Jul-12	Aug-12	Sep-12	Oct-12	Nov-12	Dec-12	Jan-13	Feb-13	Mar-13
1	pH	6.1	6.55	6.44	6.8	6.9	7.14	6.95	6.9	7.27	7.32
2	Temperature °C	33	26	25	28	29	30	26	28	31	31
3	Conductivity µs/cm	166.5	54.2	56.1	61.8	62.3	71.54	76.9	112.85	111.28	32.42
4	Dissolved Oxygen mg/l	7.15	7.4	7.9	7.5	7.8	7.3	7.5	7	7	6.5
5	Turbidity (NTU)	2.61	2.65	3.75	3.11	2.73	5.47	2.8	2.71	1.7	2.04
6	Nitrite Nitrogen mg/l	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	BDL
7	Nitrogen(Nitrate) mg/l	0.04	0.104	0.22	0.03	0.024	0.031	0.03	0.031	0.01	0.02
8	Phosphate mg/l	0.06	0	0.01	0.03	0.008	0.01	0.004	0.004	0.001	0.01
9	BOD mg/l	2.57	0.2	1.1	1.2	1.5	1.2	1.2	0.9	1.4	0.9
10	COD mg/l	6	4	6	6	22	5	2	8	10	14
11	Chloride mg/l	9.64	4.24	6.97	2.29	7.95	7.54	4.71	9.03	7.07	9.9
12	Fecal Coliform MPN/100 ml	7	180	450	180	450	450	200	450	780	400
13	Total Coliform MPN/100 ml	140	1300	4900	560	780	1700	450	680	3400	610
14	Ammonia mg/l	0.05	0.331	0.035	0.056	0.011	0.019	0.013	0.032	0.03	0.04

Table 3-g: RIVER KHANDEPAR, OPA, PONDA 2012-2013

Sr. No	Parameters	Apr-12	Jul-12	Aug-12	Sep-12	Oct-12	Nov-12	Dec-12	Jan-13	Feb-13	Mar-13
1	pH	6	6.25	6.1	7.1	7.2	7.2	7.12	6.49	7.53	7.5
2	Temperature °C	29	28	27	28	30	29	28	29	31	32
3	Conductivity µs/cm	118.4	41.5	40.8	58.3	48.4	62	110.6	98.56	92.4	50.9
4	Dissolved Oxygen mg/l	7.49	7.3	6.8	6.8	7.4	7.3	6.4	7	7.4	6.3
5	Turbidity (NTU)	3.18		46.6	10.23	3.04	3.28	3.58	2.67	2.21	2.79
6	Nitrite Nitrogen mg/l	0.004	26	0.022	0.001	0.002	0.0016	0.0026	0.042	0.003	0.001
7	Nitrogen(Nitrate) mg/l	0.04	0.024	0.12	0.17	0.11	0.085	0.13	0.08	0.046	0.071
8	Phosphate mg/l	0.004	0.523	0.04	0.05	0.01	0.0032	0.0087	0.005	0.002	0.003
9	BOD mg/l	1.61	0.03	0.15	0.7	1	1.3	6	0.6	0.8	0.7
10	COD mg/l	10	12	9	11	3	7	13	3	12	2
11	Chloride mg/l	5.79	185.74	3.72	7.07	2.77	2.43	7.125	5.3	4.24	5.34
12	Fecal Coliform MPN/100 ml	NIL	200	1300	780	1100	NIL	200	200	NIL	Nil
13	Total Coliform MPN/100 ml	4	7900	4900	3300	4900	<1.8	400	200	200	450
14	Ammonia mg/l	0.006	0.331	0.044	0.02	0.03	0.034	0.031	0.04	0.023	0.024

Table 3-g: RIVER KHANDEPAR AT CODLI 2012-2013

Sr. No	Parameters	Apr-12	May-12	Jun-12	Aug-12	Sep-12	Oct-12	Nov-12	Dec-12	Jan-13	Feb-13	Mar-13
1	pH	6.9	6.85	6.49	5.76	6.9	7	6.81	7.22	7.5	6.2	6.53
2	Temperature °C	32	35	32	27	27	29	30	28	29	28	32
3	Conductivity µs/cm	96.5	82.6	82.9	39.5	56.5	46.3	49.8	65	95.3	100.36	86.89
4	Dissolved Oxygen mg/l	7.81	5.86	6.83	7.1	7.1	7.4	7	7.4	7.2	7.3	7.4
5	Turbidity (NTU)	6.67	2.78	3.3	18	9.31	3.74	2.12	1.59	7.82	3.06	1.7
6	Nitrite Nitrogen mg/l	0.003	0.001	0.004	0.007	0.002	0.002	0.003	0.001	0.004	0.006	BDL
7	Nitrogen(Nitrate) mg/l	0.06	0.036	0.11	0.264	0.16	0.09	0.139	0.088	0.131	0.095	0.05
8	Phosphate mg/l	0.003	0.005	0.006	0.02	0.02	0.02	0.004	0.002	0.013	0.001	BDL
9	BOD mg/l	2.25	2.91	0.63	0.5	0.6	1.9	0.8	0.9	1.9	0.7	1.1
10	COD mg/l	NIL	2	1	4	7	3	9	2	6	2	5
11	Chloride mg/l	2.89	3.28	8.02	4.64	4.24	1.38	4.24	3.33	2.45	2.89	5.23
12	Fecal Coliform MPN/100 ml	7	10	9	780	200	680	1300	200	780	2300	NIL
13	Total Coliform MPN/100 ml	155	150	210	2300	3300	1300	2300	1300	1700	3300	200
14	Ammonia mg/l	0.06	0.031	0.203	0.058	0.006	0.03	0.044	0.006	0.088	0.067	0.09

Table 3-h: RIVER KUSHAWATI NEAR BUND AT KEVONA, RIVONA, SANGUEM 2012-2013

Sr. No	Parameters	Apr-12	May-12	Jun-12	Jul-12	Aug-12	Sep-12	Oct-12	Nov-12	Dec-12	Jan-13	Feb-13	Mar-13
1	pH	6.28	6.49	6.3	5.85	5.77	7.3	6.82	6.71	7.06	7.2	6.58	7.2
2	Temperature °C	31	33	29	28	27	27	28	29	27	26	28	26
3	Conductivity µs/cm	219.8	187.7	119.6	47.7	55.9	38.4	51.1	60.9	97.5	127.5	152.25	127.5
4	Dissolved Oxygen mg/l	5.86	4.56	6.18	6.7	7	7.3	7	7.2	7.2	6.2	6.7	6.2
5	Turbidity (NTU)	2.11	2.93	4.22	4.76	8.63	19.52	2.31	0.61	1.71	2.58	5.52	2.58
6	Nitrite Nitrogen mg/l	0.004	0.002	0.002	0.002	0.002	0.001	0.002	0.002	0.002	0.004	0.004	0.004
7	Nitrogen(Nitrate) mg/l	0.15	0.09	0.114	0.636	0.66	0.18	0.1	0.146	0.133	0.194	0.097	0.194
8	Phosphate mg/l	0.08	0.006	0.01	0.03	0.02	0.02	0.01	0.002	0.002	0.009	0.013	0.009
9	BOD mg/l	1.94	0.96	0.96	0.4	0.6	0.7	0.9	0.7	1.1	1.6	2.4	1.6
10	COD mg/l	2	1	1	8	1	4	2	4	2	8	7	8
11	Chloride mg/l	6.75	4.68	8.96	3.77	3.25	2.83	2.77	6.13	4.28	3.42	1.93	3.42
12	Fecal Coliform MPN/100 ml	NIL	11	7	2300	2300	450	780	2200	780	2300	2300	2300
13	Total Coliform MPN/100 ml	90	200	175	7000	11000	3300	1700	4700	3300	4900	4900	4900
14	Ammonia mg/l	BDL	0.036	0.21	0.489	0.038	0.012	0.03	0.028	0.013	0.056	0.088	0.056

Table 3-i: RIVER TALPONA AT CANACONA 2012-2013

Sr. No	Parameters	Apr-12	Jul-12	Aug-12	Sep-12	Oct-12	Nov-12	Dec-12	Jan-13	Feb-13	Mar-13
1	pH	8.27	6.1	6.96	7.08	6.82	7.16	6.48	6.91	6.91	6.98
2	Temperature °C	27	28	27	28	30	31	30	29	29	33
3	Conductivity µs/cm	93.2	47.7	50	46	44.6	40	43.4	56.9	63.3	72.93
4	Dissolved Oxygen mg/l	6.51	7.1	7.3	7.3	6.8	7.5	7.3	5.9	6.4	5.6
5	Turbidity (NTU)	3.31	32.1	15.8	5.48	1.38	0.24	1.36	2.83	2.57	2.83
6	Nitrite Nitrogen mg/l	0.005	0.012	0.007	0.003	0.002	0.001	0.008	0.002	0.002	BDL
7	Nitrogen(Nitrate) mg/l	0.07	0.253	0.25	0.092	0.849	0.019	0.01	0.03	0.338	0.01
8	Phosphate mg/l	0.07	0.04	0.02	0.012	0.006	0.054	0.005	0.06	0.007	0.02
9	BOD mg/l	2.26	0.6	0.8	0.9	0.3	0.2	0.8	0.6	1	1.4
10	COD mg/l	8	1	12	4	2	9.36	5	7	4	13
11	Chloride mg/l	8.68	2.83	3.25	6.55	1.6	7.54	1.89	5.19	2.36	6.13
12	Fecal Coliform MPN/100 ml	7	2300	780	780	200	200	400	450	200	NIL
13	Total Coliform MPN/100 ml	185	7000	7000	4900	450	780	1100	680	450	180
14	Ammonia mg/l	0.04	0.22	0.069	0.002	0.029	0.004	0.02	0.01	0.017	0.04

Table 3-j: RIVER SAL AT PAZORCONI, CUNCOLIM 2012-2013

Sr. No	Parameters	Apr-12	May-12	Jun-12	Jul-12	Aug-12	Sep-12	Oct-12	Nov-12	Dec-12	Jan-13	Feb-13	Mar-13
1	pH	7.84	6.5	6.5	5.9	6.94	7.03	6.76	6.93	7.4	6.84	6.91	7.05
2	Temperature °C	24	30	31	26	29	29	30	29	29	26	29	29
3	Conductivity µs/cm	89.8	71.4	100.2	42	82	10540	74.9	60	70	87.8	93.9	63.6
4	Dissolved Oxygen mg/l	5.2	5.21	6	6.3	6.7	6.9	6.4	6.4	6.5	4.7	7.2	5.8
5	Turbidity (NTU)	7.37	10.4	18	41.7	8.17	6.79	10.1	4.75	12.8	9.33	9.07	7.19
6	Nitrite Nitrogen mg/l	0.006	0.005	0.01	0.01	0.006	0.004	0.024	0.005	0.011	0.01	0.008	0.01
7	Nitrogen(Nitrate) mg/l	0.09	0.032	0.17	0.16	0.338	0.267	0.191	0.254	0.225	0.2	0.137	0.08
8	Phosphate mg/l	0.05	0.023	0.03	0.004	0.02	0.018	0.016	0.02	0.028	0.03	0.074	0.01
9	BOD mg/l	2.92	1.8	1.4	0.9	0.5	0.8	2.3	0.5	2.3	2.8	2.8	1.3
10	COD mg/l	22	2	6	14	3	1	4	9.36	11	8	12	4
11	Chloride mg/l	674.97	467.94	2734.61	3.25	7.43	46.79	7.77	8.02	9.43	9.43	7.54	5.66
12	Fecal Coliform MPN/100 ml	4	4	9	1700	200	450	3300	2300	1700	680	2300	2300
13	Total Coliform MPN/100 ml	160	165	210	7900	7900	1700	7900	4900	4600	1700	4900	6300
14	Ammonia mg/l	0.03	0.035	0.56	0.565	0.033	0.033	0.045	0.023	0.045	0.04	0.059	0.03

Table 3-k: RIVER SAL AT MOBOR 2012-2013

Sr. No	Parameters	Apr-12	May-12	Jun-12	Jul-12	Aug-12	Sep-12	Oct-12	Nov-12	Dec-12	Jan-13	Feb-13	Mar-13
1	pH	8.01	7	7.54	6.87	7.38	7.59	7.85	8	7.66	8	7.71	8.01
2	Temperature °C	27	32	32	28	29	29	32	31	31	30	31	32
3	Conductivity µs/cm	62700	54000	42100	10870	27430	10510	31000	50600	41300	46800	46700	47740
4	Dissolved Oxygen mg/l	5.2	5.86	5.5	5.2	6.4	5.4	6.7	5.4	6.5	4.7	5	5.7
5	Turbidity (NTU)	3.14	8.18	17.3	110	11.1	7.05	2.26	1.87	3.03	21.5	98.3	2.79
6	Nitrite Nitrogen mg/l	0.006	0.007	0.02	0.096	0.003	0.009	0.014	0.007	0.002	0.01	0.014	0.01
7	Nitrogen(Nitrate) mg/l	0.1	0.003	0.05	0.08	0.31	0.264	0.032	0.078	0.043	0.04	0.033	0.04
8	Phosphate mg/l	0.09	0.074	0.14	0.19	0.1	0.061	0.031	0.001	0.027	0.07	0.281	0.03
9	BOD mg/l	1.94	1.8	1.5	0.9	1.5	1.4	1.2	1.6	1.8	3.4	2.6	0.8
10	COD mg/l	63	18	23	9	22	9	24	38.48	14	19	22	36
11	Chloride mg/l	15909.96	19747.07	18859.4	3771.88	8405.55	3322.37	19481.19	20180	17916.43	18387.92	10136.93	15794
12	Fecal Coliform MPN/100 ml	4	4	4	3900	1700	1700	450	450	450	1400	7900	200
13	Total Coliform MPN/100 ml	145	155	145	4900	4900	4900	3300	1100	1100	3900	13000	200
14	Ammonia mg/l	0.05	0.035	1.01	1.893	0.019	0.115	0.043	0.045	0.02	0.19	0.183	0.021

Table 3-l: HARWALE WATERFALL 2012-2013

Sr. No	Parameters	Apr-12	May-12	Jun-12	Jul-12	Aug-12	Sep-12	Oct-12	Nov-12	Dec-12	Jan-13	Feb-13	Mar-13
1	pH	6.25	6	6.4	6.24	6.27	6.3	6.15	7.2	7.29	7.28	6.1	7.83
2	Temperature °C	30	33	26	28	28	26	28	30	29	29	29	30
3	Conductivity µs/cm	77.8	93	40.5	64.9	48.9	51.1	46.2	30.4	73.5	100.2	99.98	108.9
4	Dissolved Oxygen mg/l	7.48	8.5	7.9	7.3	7.4	7.6	7.6	7.5	8.1	7.4	7.4	7.5
5	Turbidity (NTU)	7.04	4.76	283	30.9	13.7	6.8	5.58	0.43	3.77	3.73	2.94	9.63
6	Nitrite Nitrogen mg/l	0.003	0.004	0.056	0.003	0.005	0.003	0.003	0.004	0.003	0.001	0.004	0.007
7	Nitrogen(Nitrate) mg/l	0.19	0.103	0.639	0.164	0.48	0.076	0.296	0.41	1.341	0.251	0.2	0.105
8	Phosphate mg/l	0.18	0.031	0.215	0.04	0.01	0.03	0.01	0.006	0.009	0.007	0.003	0.015
9	BOD mg/l	1.93	2.94	2.7	1.6	0.6	1.2	0.4	0.9	2.6	1.8	1.1	2
10	COD mg/l	4	1	12	2	1	5	2	3	4	9	7	6
11	Chloride mg/l	2.89	6.08	4.24	518.63	5.11	1.89	2.77	19.33	9.975	4.71	6.6	2.38
12	Fecal Coliform MPN/100 ml	4	4	17000	11000	4900	3300	2100	780	1300	4900	780	7900
13	Total Coliform MPN/100 ml	125	175	35000	28000	9400	24000	13000	1700	2300	13000	3300	13000
14	Ammonia mg/l	0.03	0.088	1.82	0.819	4.548	0.037	0.026	0.007	0.005	0.026	0.16	0.037

Table 3-m: RIVER BICHOLIM, BARAZAN NAGAR, BICHOLIM 2012-2013

Sr. No	Parameters	Apr-12	May-12	Jun-12	Jul-12	Aug-12	Sep-12	Oct-12	Nov-12	Dec-12	Jan-13	Feb-13	Mar-13
1	pH	6.48	7	6.5	5.8	5.97	6.1	6.45	7.07	7.04	7.25	7.1	6.85
2	Temperature °C	34	33	26	28	29	28	29	31	31	28	30	30
3	Conductivity µs/cm	204.5	175.2	69.5	62.6	74.9	80.2	95.8	87.7	110.7	156	181.83	149.82
4	Dissolved Oxygen mg/l	7.81	7.81	6.3	6.2	6.7	6.8	6.7	6.9	8.6	7	7.5	6.1
5	Turbidity (NTU)	7.68	5.44	88.9	76.8	9.59	5.45	4.77	1.99	3.07	5.77	3.34	3.2
6	Nitrite Nitrogen mg/l	0.009	0.006	0.04	0.024	0.002	0.003	0.006	0.005	0.005	0.001	0.01	0.007
7	Nitrogen(Nitrate) mg/l	0.37	0.203	1.21	0.335	0.45	0.35	0.252	0.26	1.302	0.373	0.3	0.214
8	Phosphate mg/l	0.05	0.15	0.15	0.14	0.02	0.01	0.009	0.006	0.0078	0.01	0.001	0.011
9	BOD mg/l	2.25	3.89	1.4	1.8	2.3	2	0.5	2.5	1.6	1.6	1.5	0.5
10	COD mg/l	8	4	4	6	3	8	7	6	6	13	9	11
11	Chloride mg/l	10.61	7.95	7.54	3.77	5.57	3.3	7.37	7.07	11.4	10.37	19.8	4.28
12	Fecal Coliform MPN/100 ml	7	1	24000	11000	3300	2600	2300	1700	7900	14000	4900	7900
13	Total Coliform MPN/100 ml	175	145	35000	22000	22000	35000	7900	15000	13000	21000	13000	1300
14	Ammonia mg/l	0.06	0.105	1.27	1.143	1.74	0.007	0.073	0.024	0.0107	0.066	0.13	0.033

Table 3-n: MAYEM LAKE AT MAYEM 2012-2013

Sr. No	Parameters	Apr-12	May-12	Jun-12	Jul-12	Aug-12	Sep-12	Oct-12	Nov-12	Dec-12	Jan-13	Feb-13	Mar-13
1	pH	6.2	6	6.58	5.52	5.67	5.7	6.21	6.29	6.56	6.65	7.23	6.55
2	Temperature °C	33	32	28	29	29	28	30	32	31	28	31	33
3	Conductivity µs/cm	56.6	61.8	37.7	35.5	38.2	39	33.5	59.3	31.8	39.7	41.69	92.39
4	Dissolved Oxygen mg/l	7.16	6.83	6.58	6.9	7.4	6.9	6.1	6.7	6.4	6.9	7.7	6.8
5	Turbidity (NTU)	5.43	14.1	10.6	6.93	4.96	3.99	1.72	1.85	2.98	4.04	3.55	4.81
6	Nitrite Nitrogen mg/l	0.004	0.007	0.006	0.004	0.007	0.004	0.001	0.002	0.002	0.001	0.004	0.004
7	Nitrogen(Nitrate) mg/l	0.08	0.024	0.13	0.094	0.09	0.07	0.02	0.068	0.983	0.005	0.01	0.02
8	Phosphate mg/l	0.01	0.025	0.017	0.01	0.01	0.003	0.003	0.004	0.0072	0.008	0.001	0.01
9	BOD mg/l	2.26	1.93	1.1	1.6	1.6	2.5	1.1	1.7	1.2	1.3	1.1	1.3
10	COD mg/l	20	16	7	3	4	6	6	5	10	17	7	15
11	Chloride mg/l	20.25	5.62	6.6	3.3	2.79	2.36	2.77	3.77	6.65	4.24	4.71	0.48
12	Fecal Coliform MPN/100 ml	NIL	NIL	1100	780	200	450	180	1100	1100	7900	NIL	1700
13	Total Coliform MPN/100 ml	125	145	5400	7900	2300	4900	370	3900	1700	13000	680	4900
14	Ammonia mg/l	BDL	0.03	0.295	0.601	0.007	0.005	0.041	0.017	0.012	0.03	0.12	0.03

Table 3-o: CUMBHARJUA CANAL, CORLIM 2012-2013

Sr. No	Parameters	Apr-12	May-12	Jun-12	Jul-12	Aug-12	Sep-12	Oct-12	Nov-12	Dec-12	Jan-13	Feb-13	Mar-13
1	pH	6.55	7.3	5.58	5.56	5.46	6.3	6.51	7.12	7.05	7.52	6.91	7.19
2	Temperature °C	33	32	26	29	29	29	32	32	31	30	31	30
3	Conductivity µs/cm	54000	47.9	6200	1313	285.2	189.5	3.15	27690	32900	42600	42610	47400
4	Dissolved Oxygen mg/l	5.53	5.56	5.4	5.9	5.4	5.2	6.7	3.5	3.3	4.7	4.5	5
5	Turbidity (NTU)	8.43	13.8	9.11	5.17	3.55	11.5	15.6	2.25	3.62	11.6	10.35	14.9
6	Nitrite Nitrogen mg/l	0.04	0.008	0.016	0.003	0.001	0.005	0.008	0.09	0.025	0.003	0.02	0.01
7	Nitrogen(Nitrate) mg/l	0.08	0.007	0.314	0.077	0.17	0.33	0.01	0.106	0.141	0.082	0.05	0.03
8	Phosphate mg/l	0.06	0.047	0.02	0.01	0.01	0.04	0.03	0.012	0.028	0.066	0.04	0.05
9	BOD mg/l	2.92	4.25	1	1.1	0.6	1.9	1.5	1.8	2.5	3.5	1.7	1.9
10	COD mg/l	46	27	16	10	5	4	22	4	22	27	14	25
11	Chloride mg/l	18802.08	17079.81	6129.31	1.89	46.44	4.24	921.7	2593.17	13443	15181.82	15040.37	15438.48
12	Fecal Coliform MPN/100 ml	4	NIL	2200	NIL	450	2600	NIL	930	1300	200	180	450
13	Total Coliform MPN/100 ml	165	15	5400	1100	1700	13000	200	4900	4900	200	180	450
14	Ammonia mg/l	0.05	0.071	0.928	0.709	0.034	0.081	0.064	0.101	0.146	0.151	0.16	0.07

Table 3-p: RIVER ZUARI AT PANCHAWADI 2012-2013

Sr. No	Parameters	Apr-12	Jul-12	Aug-12	Sep-12	Oct-12	Nov-12	Dec-12	Jan-13	Feb-13	Mar-13
1	pH	6.09	6.04	6.53	7.41	7	6.88	6.61	6.69	7.19	6.9
2	Temperature °C	32	29	29	30	31	30	28	29	31	33
3	Conductivity µs/cm	14480	74.6	72.3	285.2	61.7	14680	14000	19680	24590	19980
4	Dissolved Oxygen mg/l	5.2	6.3	6.2	6.8	7.3	5.4	4.8	5.7	3.6	3.5
5	Turbidity (NTU)	5.52	11.4	14.5	3.56	3.51	8.03	21	3.77	4.42	4.62
6	Nitrite Nitrogen mg/l	0.02	0.009	0.007	0.007	0.003	0.0158	0.049	0.03	0.06	BDL
7	Nitrogen(Nitrate) mg/l	0.08	0.137	0.08	0.01	0.698	0.062	0.115	0.04	0.1	1.05
8	Phosphate mg/l	0.02	0.01	0.01	0.061	0.006	0.0116	0.0568	0.01	0.02	0.01
9	BOD mg/l	1.93	0.4	0.6	1.3	1.7	1.8	1	1.4	0.2	0.8
10	COD mg/l	27	6	1	2	3	16	18	13	24	23
11	Chloride mg/l	3133.78	3.3	13	64.06	9.21	4176.71	4607	6508.62	10608.41	6896.44
12	Fecal Coliform MPN/100 ml	NIL	200	3300	NIL	1300	400	NIL	180	400	450
13	Total Coliform MPN/100 ml	155	4900	13000	2300	4600	1700	<1.8	180	930	780
14	Ammonia mg/l	0.02	0.192	0.065	0.08	0.091	0.0267	0.017	0.02	0.03	0.01

Table 3-q: RIVER ZUARI AT CORTALIM 2012-2013

Sr. No	Parameters	Apr-12	Feb-13	Mar-13
1	pH	6.96	7.47	7.92
2	Temperature °C	34	30	32
3	Conductivity µs/cm	59900	50080	50090
4	Dissolved Oxygen mg/l	6.51	5.4	5.5
5	Turbidity (NTU)	13.4	19	8.64
6	Nitrite Nitrogen mg/l	0.03	0.01	0.01
7	Nitrogen(Nitrate) mg/l	0.05	0.19	0.02
8	Phosphate mg/l	0.04	0.03	0.03
9	BOD mg/l	2.59	1	1.3
10	COD mg/l	36	32	39
11	Chloride mg/l	17838.44	18065.32	17623.6
12	Fecal Coliform MPN/100 ml	NIL	780	450
13	Total Coliform MPN/100 ml	90	1100	780
14	Ammonia mg/l	0.08	0.03	0.04

Table 3-r: CREEK AT DANDO MOLLO, VELSAO, MORMUGAO 2012-2013

Sr. No	Parameters	Apr-12	May-12	Jun-12	Jul-12	Oct-12	Nov-12	Dec-12	Jan-13	Feb-13	Mar-13
1	pH	6.8	6	6.19	6.58	7.14	7.52	8.74	8.1	7.2	8.56
2	Temperature °C	35	33	27	30	30	28	30	28	31	31
3	Conductivity µs/cm	9200	4960	361	612	4690	34500	6760	27580	25850	51320
4	Dissolved Oxygen mg/l	5.2	7.16	5.2	4.8	5	7.9	7.8	7.6	7.5	
5	Turbidity (NTU)	1.7	1.16	37.3	15.5	5.45	1.04	5.99	3.5	2.79	2.49
6	Nitrite Nitrogen mg/l	0.31	0.34	0.099	0.028	0.06	0.004	0.003	0.003	0.4	0.69
7	Nitrogen(Nitrate) mg/l	48.21	12.24	0.669	0.174	8.55	0.57	0.365	11.4	12.36	12.52
8	Phosphate mg/l	0.16	0.19	0.171	0.08	0.081	0.11	0.035	0.072	0.089	0.04
9	BOD mg/l	1.61	1.6	2	1.2	1.3	2.3	2.2	3.7	4.5	
10	COD mg/l	52	5	13	15	8	18	15	20	27	26
11	Chloride mg/l	2169.54	1310.23	1131.56	17916.43	1520.8	12635.8	1791.64	8250.99	7072.28	4243.65
12	Fecal Coliform MPN/100 ml	NIL	10	13000	7000	1700	1100	1100	450	NIL	450
13	Total Coliform MPN/100 ml	95	125	24000	28000	7900	4900	2200	780	450	780
14	Ammonia mg/l	0.07	1.5	1.302	1.169	0.097	0.388	2.69	1.932	7.38	2.16

Table 3-s: RIVER MANDOVI AT PANAJI 2012-2013

Sr. No	Parameters	Apr-12	Jul-12	Aug-12	Sep-12	Oct-12	Nov-12	Dec-12	Jan-13	Feb-13	Mar-13
1	pH	6	7.25	7.05	7.63	7.43	7.68	7.96	7.9	7.7	7.77
2	Temperature °C	27	28	31	31	30	29	29	30	30	27
3	Conductivity µs/cm	62700	10500	19380	14180	32500	38100	48100	42400	44760	49300
4	Dissolved Oxygen mg/l	4.56	6.8	6	6.3	5	6	5	6.1	5.4	6
5	Turbidity (NTU)	3.87	12.3	6.72	4.8	2.63	2.9	6.76	10.68	5.79	5.55
6	Nitrite Nitrogen mg/l	0.02	0.004	0.016	0.003	0.005	0.01	0.017	0.01	0.03	0.01
7	Nitrogen(Nitrate) mg/l	0.1	0.138	0.1	0.032	0.045	0.04	0.047	0.01	0.2	0.02
8	Phosphate mg/l	0.11	0.04	0.02	0.052	0.017	0.016	0.011	0.04	0.01	0.02
9	BOD mg/l	1.95	2	0.6	0.9	1.6	1.6	1.3	1.7	1.5	1.1
10	COD mg/l	33	15	11	16	21.84	28.08	14	47	27	29
11	Chloride mg/l	21213.28	44.79	7430.32	4193	20578.73	15181.82	19476.23	12730.1	19405.32	19357.47
12	Fecal Coliform MPN/100 ml	4	3300	780	200	1300	200	200	200	NIL	NIL
13	Total Coliform MPN/100 ml	145	13000	4900	680	3300	450	780	200	200	180
14	Ammonia mg/l	0.05	0.444	3.322	0.005	0.033	0.011	0.033	0.11	0.07	0.05

Table 3-t: RIVER MANDОВI AT TONCA MARCELA 2012-2013

Sr. No	Parameters	Apr-12	Jul-12	Aug-12	Sep-12	Oct-12	Nov-12	Dec-12	Jan-13	Feb-13	Mar-13
1	pH	6.3	6.22	6.18	6.8	7.02	7.4	7.11	6.91	6.93	7.24
2	Temperature °C	28	27	26	30	30	31	28	29	31	31
3	Conductivity µs/cm	43400	235.3	83.2	512	4280	70870	25210	35020	37830	40890
4	Dissolved Oxygen mg/l	5.2	6.5	7	6.1	5.9	5.3	5.5	5.1	4.2	4.1
5	Turbidity (NTU)	3.88	27.6	55.8	9.67	7.53	2.21	9.16	5.92	5.5	3.98
6	Nitrite Nitrogen mg/l	0.001	0.033	0.012	0.003	0.005	0.006	0.005	0.02	0.02	0.01
7	Nitrogen(Nitrate) mg/l	0.05	0.164	0.23	0.066	0.081	0.055	0.12	0.89	0.02	0.05
8	Phosphate mg/l	0.03	0.02	0.03	0.017	0.019	0.02	0.02	0.02	0.01	0.01
9	BOD mg/l	2.26	0.7	2.4	1.5	0.3	1.1	2.1	1.7	0.9	1.5
10	COD mg/l	28	6	13	2	12	9	24	22	22	31
11	Chloride mg/l	12727.97	51.86	41.33	320.11	2149.33	6223.6	27063.24	12944.57	13790.94	5068.48
12	Fecal Coliform MPN/100 ml	NIL	1100	4700	1700	1100	780	450	450	450	450
13	Total Coliform MPN/100 ml	4	4900	22000	7000	4900	1300	450	1300	1300	680
14	Ammonia mg/l	0.04	0.38	0.008	0.066	0.053	0.05	0.04	0.03	0.11	0.09

Table 3-u: RIVER SELAULIM LAKE AT SELAULIM, SANGUEM 2012-2013

Sr. No	Parameters	Apr-12	May-12	Jun-12	Jul-12	Aug-12	Sep-12	Oct-12	Nov-12	Dec-12	Jan-13	Feb-13	Mar-13
1	pH	5.9	6.5	6.63	7.59	6.6	6.65	7.85	7.47	7.04	6.94	7.58	8.19
2	Temperature °C	30	35	29	30	30	30	34	34	31	32	32	33
3	Conductivity µs/cm	62.7	52.1	45.7	48	44	39.4	39.8	43	36.2	50.51	47.9	24.39
4	Dissolved Oxygen mg/l	7.49	7.81	6.4	7.6	7.8	7.8	7.8	7.5	7.2	6.7	7.3	7.9
5	Turbidity (NTU)	1.32	1.89	7.9	1.56	1.58	2.03	1.48	0.15	1.02	0.88	1.49	1.42
6	Nitrite Nitrogen mg/l	0.005	0.001	0.003	0.01	0.0011	0.002	0.002	0.002	0.002	0.006	0.002	0.002
7	Nitrogen(Nitrate) mg/l	0.065	0.002	0.11	0.429	0.061	0.0015	0.001	0.09	0.011	0.001	0.049	0.009
8	Phosphate mg/l	0.005	0.008	0.01	0	0.01	0.013	0.009	0.01	0.003	0.003	0.033	0.005
9	BOD mg/l	-	-	0.2	0.6	1.1	1.2	0.4	1.4	0.6	0.9	1.1	1.9
10	COD mg/l	14	9	5	1	2	2	6.48	4	3	6	2	2.08
11	Chloride mg/l	13.5	4.21	5.19	4.24	2.3	0.46	1.83	6.6	0.94	1.89	1.41	3.77
12	Fecal Coliform MPN/100 ml	NIL	11	7000	NIL	NIL	400	NIL	NIL	NIL	NIL	NIL	Nil
13	Total Coliform MPN/100 ml	10	150	35000	<1.8	<1.8	1700	<1.8	<1.8	<1.8	<1.8	400	<1.8
14	Ammonia mg/l	0.057	0.103	0.52	0.793	0.659	0.07756	0.025	0.089	0.017	0.031	0.044	0.023
15	Iron(mg/l)	0.725	0.76	0.14	0.19	0.029	0.113	0.21	0.06	0.017	0.04	0.062	0.09
16	Manganese (mg/l)	0.097	0.19	0.11	0.02	0.045	0.044	ND	0.04	0.006	0.032	0.002	0.02

Table 3-v: BOREWELL/TUBE WELL/ OPEN WELL IN ZUARI INDUSTRIES LTD, ZUARINAGAR

Sr. No	Parameters	Apr-12	Oct-12
1	pH	6.16	6.93
2	Temperature °C	29	33
3	Conductivity µs/cm	261.9	239.5
4	Dissolved Oxygen mg/l	4.56	2
5	Turbidity (NTU)	3.63	0.6
6	Nitrite Nitrogen mg/l	0.001	0.005
7	Nitrogen(Nitrate) mg/l	0.08	0.022
8	Phosphate mg/l	0.04	0.004
9	BOD mg/l	NIL	0.4
10	COD mg/l	NIL	1
11	Chloride mg/l	27	9.83
12	Fecal Coliform MPN/100 ml	NIL	NIL
13	Total Coliform MPN/100 ml	4	<1.8
14	Ammonia mg/l	0.06	0.158

Table 3-w: BOREWELL/TUBE WELL/OPEN WELL AT SANCOALE INDUSTRIAL ESTATE

Sr. No	Parameters	Apr-12	Oct-12
1	pH	6.19	6.72
2	Temperature °C	28	31
3	Conductivity µs/cm	149.8	105.5
4	Dissolved Oxygen mg/l	4.89	6.3
5	Turbidity (NTU)	0.16	32.5
6	Nitrite Nitrogen mg/l	0.002	0.01
7	Nitrogen(Nitrate) mg/l	0.82	0.824
8	Phosphate mg/l	0.01	0.069
9	BOD mg/l	NIL	0.6
10	COD mg/l	NIL	6
11	Chloride mg/l	21.21	10.76
12	Fecal Coliform MPN/100 ml	NIL	450
13	Total Coliform MPN/100 ml	NIL	1700
14	Ammonia mg/l	0.27	0.017

Table 3-x: BOREWELL/TUBE WELL/ OPEN WELL AT VERNA INDUSTRIAL ESTATE 2012-2013

Sr. No	Parameters	Apr-12	Oct-12
1	pH	6.4	6.99
2	Temperature °C	29	33
3	Conductivity µs/cm	33.7	220.9
4	Dissolved Oxygen mg/l	5.53	6
5	Turbidity (NTU)	0.48	0.44
6	Nitrite Nitrogen mg/l	0.003	0.001
7	Nitrogen(Nitrate) mg/l	0.17	0.073
8	Phosphate mg/l	0.02	0.014
9	BOD mg/l	NIL	1
10	COD mg/l	NIL	2
11	Chloride mg/l	20.75	9.83
12	Fecal Coliform MPN/100 ml	NIL	NIL
13	Total Coliform MPN/100 ml	65	<1.8
14	Ammonia mg/l	0.07	0.016

Table 3-y: BOREWELL/ TUBE WELL/ OPEN WELL KUNDAIM INDUSTRIAL ESTATE 2012-2013

Sr. No	Parameters	Apr-12	Oct-12
1	pH	6	6.02
2	Temperature °C	31	32
3	Conductivity µs/cm	270.4	124.9
4	Dissolved Oxygen mg/l	4.56	4.2
5	Turbidity (NTU)	57.2	5.18
6	Nitrite Nitrogen mg/l	0.002	0.001
7	Nitrogen(Nitrate) mg/l	0.2	0.509
8	Phosphate mg/l	4	0.036
9	BOD mg/l	0.96	0.9
10	COD mg/l	NIL	2
11	Chloride mg/l	23.14	5.53
12	Fecal Coliform MPN/100 ml	NIL	NIL
13	Total Coliform MPN/100 ml	85	<1.8
14	Ammonia mg/l	0.08	0.027

Table 3-z: BORE WELL/ TUBE WELL / OPENWELL IN CORLIM INDUSTRIAL ESTATE 2012-2013

Sr. No	Parameters	Apr-12	Oct-12
1	pH	5	5.02
2	Temperature °C	29	31
3	Conductivity µs/cm	50.8	40.04
4	Dissolved Oxygen mg/l	5.85	5.1
5	Turbidity (NTU)	1.89	0.39
6	Nitrite Nitrogen mg/l	0.001	0.001
7	Nitrogen(Nitrate) mg/l	0.66	0.855
8	Phosphate mg/l	NIL	0.013
9	BOD mg/l	0.29	1
10	COD mg/l	NIL	2
11	Chloride mg/l	19.28	11.06
12	Fecal Coliform MPN/100 ml	NIL	NIL
13	Total Coliform MPN/100 ml	4	<1.8
14	Ammonia mg/l	0.03	0.031

Table 3-aa: BOREWELL/TUBE WELL/OPEN WELL IN PILERNE INDUSTRIAL ESTATE 2012-2013

Sr. No	Parameters	Apr-12	Oct-12
1	pH	6.3	6.83
2	Temperature °C	33	34
3	Conductivity µs/cm	280.5	216.1
4	Dissolved Oxygen mg/l	6.83	6.9
5	Turbidity (NTU)	5.28	0.47
6	Nitrite Nitrogen mg/l	0.001	0.001
7	Nitrogen(Nitrate) mg/l	0.19	0.053
8	Phosphate mg/l	0.07	0.062
9	BOD mg/l	3.23	1.8
10	COD mg/l	NIL	0.001
11	Chloride mg/l	14.46	4.15
12	Fecal Coliform MPN/100 ml	4	NIL
13	Total Coliform MPN/100 ml	145	<1.8
14	Ammonia mg/l	0.03	0.007

Table 3-ab: BORE WELL/TUBE WELL/ OPEN WELL IN CUNCOLIM INDUSTRIAL ESTATE 2012-2013

Sr. No	Parameters	Oct-12
1	pH	7.01
2	Temperature °C	28
3	Conductivity µs/cm	249.6
4	Dissolved Oxygen mg/l	6.4
5	Turbidity (NTU)	5.83
6	Nitrite Nitrogen mg/l	0
7	Nitrogen(Nitrate) mg/l	0.01
8	Phosphate mg/l	0.02
9	BOD mg/l	1
10	COD mg/l	2
11	Chloride mg/l	6.91
12	Fecal Coliform MPN/100 ml	NIL
13	Total Coliform MPN/100 ml	<1.8
14	Ammonia mg/l	0.06

Table 3-ac: BOREWELL/TUBE WELL/OPEN WELL IN BETHORA INDUSTRIAL ESTATE 2012-2013

Sr. No	Parameters	Oct-12
1	pH	6.56
2	Temperature °C	32
3	Conductivity µs/cm	9000
4	Dissolved Oxygen mg/l	6.7
5	Turbidity (NTU)	7.13
6	Nitrite Nitrogen mg/l	0.0004
7	Nitrogen(Nitrate) mg/l	1.122
8	Phosphate mg/l	0.012
9	BOD mg/l	1
10	COD mg/l	7
11	Chloride mg/l	280.76
12	Fecal Coliform MPN/100 ml	NIL
13	Total Coliform MPN/100 ml	200
14	Ammonia mg/l	0.005

Table 3-ad: AGRICULTURAL CANAL UPSTREAM OF CUNCOLIM INDUSTRIAL ESTATE 2012-2013

Sr. No	Parameters	Apr-12	Jan-13	Feb-13
1	pH	5.85	6.89	7.08
2	Temperature °C	34	28	30
3	Conductivity µs/cm	60.9	50.55	50.7
4	Dissolved Oxygen mg/l	7.49	6.2	7.5
5	Turbidity (NTU)	1.88	1.29	1.85
6	Nitrite Nitrogen mg/l	0.003	0.003	0.003
7	Nitrogen(Nitrate) mg/l	0.05	0.082	0.013
8	Phosphate mg/l	0.013	0.048	0.005
9	BOD mg/l	1.61	1	0.9
10	COD mg/l	21	11	6
11	Chloride mg/l	14.46	2.36	4.24
12	Fecal Coliform MPN/100 ml	7	360	2200
13	Total Coliform MPN/100 ml	150	4600	3400
14	Ammonia mg/l	0.002	0.017	0.113

Table 3-ae: AGRICULTURAL CANAL DOWNSTREAM OF CUNCOLIM INDUSTRIAL ESTATE 2012-2013

Sr. No	Parameters	Apr-12	Oct-12	Jan-13	Feb-13
1	pH	6.09	6.54	7.05	7.38
2	Temperature °C	34	29	29	30
3	Conductivity µs/cm	156	663	56.4	56.7
4	Dissolved Oxygen mg/l	8.14	5	7.1	7.2
5	Turbidity (NTU)	26	0.75	2.23	2.39
6	Nitrite Nitrogen mg/l	0.01	0.004	0.004	0.003
7	Nitrogen(Nitrate) mg/l	0.09	0.732	0.039	0.022
8	Phosphate mg/l	0.02	0.03	0.098	0.017
9	BOD mg/l	2.1	1.2	1.3	1.9
10	COD mg/l	52	3	19	7
11	Chloride mg/l	27.96	47.01	2.36	5.66
12	Fecal Coliform MPN/100 ml	NIL	NIL	1300	4900
13	Total Coliform MPN/100 ml	120	2	2300	7900
14	Ammonia mg/l	0.475	0.31	0.011	0.111

Table 3-af: RIVER SAL AT RUMDER, NUVEM 2012-2013

Sr. No	Parameters	Apr-12	May-12	Jun-12	Jul-12	Aug-12	Sep-12	Oct-12	Nov-12	Dec-12	Jan-13	Feb-13	Mar-13
1	pH	6.09	7	6.27	6.64	6.14	6.46	6.5	6.62	6.68	7.41	7.2	6.89
2	Temperature °C	28	34	31	30	29	29	30	32	30	29	30	32
3	Conductivity µs/cm	193.5	192.3	111.1	85.7	80.5	72.9	87.1	99.4	115.2	133.4	130.52	150.35
4	Dissolved Oxygen mg/l	0	0	5.2	5.3	5.6	6.1	5.8	4.7	3.7	3	3.6	4.3
5	Turbidity (NTU)	16.4	29.8	41.3	13.3	11.7	13.7	19.4	0.88	20.3	15.11	10.49	4.93
6	Nitrite Nitrogen mg/l	0.009	0.006	0.022	0.023	0.005	0.005	0.02	0.004	0.008	0.003	0.004	0.01
7	Nitrogen(Nitrate) mg/l	0.005	0.004	0.262	0.512	0.51	0.42	0.02	0.009	0.011	0.004	0.063	0.02
8	Phosphate mg/l	0.02	0.088	0.11	0.06	0.03	0.029	1.13	0.013	0.017	0.184	0.01	0.01
9	BOD mg/l	30	22	2.9	1.2	1.7	1.3	2.8	3.4	3.2	1.9	2.7	2.5
10	COD mg/l	70	48	10	18	4	5	9	15	15	30	25	39
11	Chloride mg/l	40.5	29.01	116.97	8.96	9.16	9.22	11.5	13.2	17.44	14.62	13.9	24.23
12	Fecal Coliform MPN/100 ml	11	14	11	180	780	4600	3300	2300	1700	780	1300	450
13	Total Coliform MPN/100 ml	210	175	240	9400	4900	17000	4900	4600	4900	1300	2300	450
14	Ammonia mg/l	1.51	0.092	0.983	0.895	0.08	0.064	0.04	0.097	0.058	0.855	0.079	0.5

Table 3-ag: RIVER SAL AT ORLIM BRIDGE 2012-2013

Sr. No	Parameters	Apr-12	May-12	Jun-12	Jul-12	Aug-12	Sep-12	Oct-12	Nov-12	Dec-12	Jan-13	Feb-13	Mar-13
1	pH	6.76	8	7.89	6.4	6.3	6.74	7.1	7	7.18	7.72	7.22	7.35
2	Temperature °C	28	34	32	32	30	31	31	33	30	30	30	32
3	Conductivity µs/cm	43100	26400	17970	398	158.7	624	10020	17740	30900	38000	42580	36980
4	Dissolved Oxygen mg/l	6.2	5.5	12	3.3	4.3	4.4	4.6	3.1	4.4	4.9	5.7	4.7
5	Turbidity (NTU)	4.85	12.7	12.6	11.3	8.59	7.6	5.6	0.99	5.17	4.59	5.58	4.82
6	Nitrite Nitrogen mg/l	0.007	0.012	0.011	0.047	0.016	0.01	0.01	0.018	0.013	0.007	0.01	0.01
7	Nitrogen(Nitrate) mg/l	0.04	0.068	0.025	0.343	0.41	0.38	0.18	0.333	0.25	0.038	0.167	0.04
8	Phosphate mg/l	0.06	0.025	0.042	0.06	0.04	0.049	0.97	0.012	0.02	0.024	0.032	0.04
9	BOD mg/l	2	2.2	6.2	2.4	1	1.6	2.3	3.1	2.5	12	2.4	2.6
10	COD mg/l	45	13	26	7	10	20	12	21	21	31	35	42
11	Chloride mg/l	11378.03	467.94	9146.81	94.3	24.58	142.4	467.9	5893.6	7072	12871.54	14789.74	12208.27
12	Fecal Coliform MPN/100 ml	4	7	7	180	1100	1100	1100	610	NIL	200	NIL	200
13	Total Coliform MPN/100 ml	150	150	165	2100	3300	4900	1300	1400	680	200	<1.8	450
14	Ammonia mg/l	0.05	3.895	0.234	0.871	0.19	0.089	0.18	0.123	0.088	0.07	0.032	0.14

Table 3-ah: RIVER SAL AT KHAREBAND, MARGAO 2012-2013

Sr. No	Parameters	Apr-12	May-12	Jun-12	Jul-12	Aug-12	Sep-12	Oct-12	Nov-12	Dec-12	Jan-13	Feb-13
1	pH	6.21	7	6.8	6.81	6.1	6.6	6.56	6.62	6.18	6.96	6.37
2	Temperature °C	26	31	30	30	30	29	31	31	29	27	29
3	Conductivity µs/cm	431	357	191.6	191.6	92.3	105.1	146.9	322	388	1067	1264
4	Dissolved Oxygen mg/l	0	0	0.8	2.7	4.6	4.5	2	0	0.5	0	0
5	Turbidity (NTU)	16.1	28.8	24.8	11.5	9.51	8.02	10.1	6.08	16.1	14.71	13.38
6	Nitrite Nitrogen mg/l	0.01	0.018	0.04	2.2	0.026	0.12	0.03	0.009	0.011	0.004	0.02
7	Nitrogen(Nitrate) mg/l	0.02	0.052	0.096	0.014	0.42	0.47	0.33	0.13	0.03	0.005	0.044
8	Phosphate mg/l	1.86	0.888	0.144	0.08	0.09	0.036	0.89	0.09	0.35	0.639	0.59
9	BOD mg/l	15	12	3.33	2.2	1.8	1.9	5.76	6.4	10.6	8.1	7.93
10	COD mg/l	34	23	14	13	14	3	18	32	28	40	36
11	Chloride mg/l	96.42	93.59	2263.13	11.79	8.68	57.61	64	42.43	27.35	233.39	299.77
12	Fecal Coliform MPN/100 ml	12	NIL	15	NIL	2200	7900	14000	7900	7900	1700	17000
13	Total Coliform MPN/100 ml	225	125	240	3300	13000	17000	22000	17000	13000	22000	22000
14	Ammonia mg/l	5.58	2.938	2.244	1.801	0.2	0.146	0.29	7.966	0.078	3.33	10.328

Table 3-ai: RIVER SAL AT JACKNI BAND, NAVELIM 2012-2013

Sr. No	Parameters	Apr-12	May-12	Jun-12	Jul-12	Aug-12	Sep-12	Nov-12	Dec-12
1	pH	6	7	6.37	6.28	6.18	6.59	6.63	7.24
2	Temperature °C	24	29	30	30	29	29	30	27
3	Conductivity µs/cm	888	1726	209.3	140.9	110.9	123.9	157.1	295.9
4	Dissolved Oxygen mg/l	0.65	0.65	2	5.2	5.7	5.7	3.1	4.2
5	Turbidity (NTU)	5.24	6.38	4.5	11.1	9.61	7.1	1.92	9.09
6	Nitrite Nitrogen mg/l	0.02	0.012	0.003	0.039	0.01	0.01	0.025	0.018
7	Nitrogen(Nitrate) mg/l	0.18	0.105	0.688	1.136	0.7	0.8	0.902	0.35
8	Phosphate mg/l	0.03	0.057	0.015	0.06	0.03	0.037	0.011	0.04
9	BOD mg/l	7.4	7	1	1.7	1.3	1.3	1.3	3.5
10	COD mg/l	24	16	3	4	8	7	5	7
11	Chloride mg/l	337.48	46.79	942.97	14.62	10.6	13.83	21.22	24.99
12	Fecal Coliform MPN/100 ml	NIL	14	15	NIL	2200	780	3400	6300
13	Total Coliform MPN/100 ml	80	210	240	4900	11000	17000	13000	12000
14	Ammonia mg/l	0.97	2.315	0.248	1.398	0.06	0.112	2.576	0.028

Table 3-aj: RIVER SAL AT MUNGUL, MARGAO 2012-2013

Sr. No	Parameters	Apr-12	May-12	Jun-12	Jul-12	Aug-12	Sep-12	Nov-12	Dec-12
1	pH	8	7	0.58	6.15	6.14	6.53	6.57	6.93
2	Temperature °C	29	34	30	30	30	29	31	28
3	Conductivity µs/cm	462	26400	221.4	119.8	83.3	85.5	274.1	268.8
4	Dissolved Oxygen mg/l	0	0	1.6	4.3	5.2	5	1.9	1.7
5	Turbidity (NTU)	14.4	12.7	23.1	13.8	9.73	10.1	6.97	8.41
6	Nitrite Nitrogen mg/l	0.006	0.005	0.079	0.057	0.017	0.01	0.013	0.02
7	Nitrogen(Nitrate) mg/l	0	0.021	0.385	0.666	0.38	0.39	0.051	0.04
8	Phosphate mg/l	0.22	0.014	0.134	0.08	0.08	0.037	0.116	0.17
9	BOD mg/l	10	10	1.11	1.8	1.4	1.3	15	3.5
10	COD mg/l	25	18	14	7	4	3	30	25
11	Chloride mg/l	48.21	374.35	942.97	12.26	8.68	11.06	30.65	35.5
12	Fecal Coliform MPN/100 ml	NIL	9	11	1700	2200	9400	4900	4900
13	Total Coliform MPN/100 ml	20	170	175	7900	11000	21000	21000	11000
14	Ammonia mg/l	5.52	BDL	3.465	2.78	0.11	0.102	8.988	0.064

Table 3-ak: RIVER TIRACOL AT KERI, PERNEM 2012-2013

Sr. No	Parameters	Jul-12	Aug-12	Sep-12	Oct-12	Nov-12	Dec-12	Jan-13	Feb-13	Mar-13
1	pH	7.58	7.27	7.53	7.87	8.01	8.08	7.93	7.86	7.22
2	Temperature °C	29	29	29	31	28	29	29	30	31
3	Conductivity µs/cm	43900	48900	20820	50500	49900	48900	50460	49640	53290
4	Dissolved Oxygen mg/l	6.2	5.9	6.3	5.5	5.7	5.8	6	6.4	5.8
5	Turbidity (NTU)	19.9	6.69	3.89	13.6	5.92	7.13	3.29	3.19	3.87
6	Nitrite Nitrogen mg/l	0.08	0.01	0.003	0.005	0.023	0.011	0.002	0.004	0.01
7	Nitrogen(Nitrate) mg/l	0.098	0.17	0.07	0.039	0.033	0.02	0.01	0.01	BDL
8	Phosphate mg/l	0.18	0.04	0.03	0.079	0.021	0.03	0.01	0.01	0.02
9	BOD mg/l	1	2.9	2.5	1.8	2.5	1.6	1.7	2	2.4
10	COD mg/l	5	6	7	34.32	29	16	20	25	34
11	Chloride mg/l	1885.94	18390.04	5092.04	18482.21	17916.43	20273.86	17680.69	15912.62	19920.24
12	Fecal Coliform MPN/100 ml	200	NIL	NIL	2200	NIL	NIL	NIL	NIL	NIL
13	Total Coliform MPN/100 ml	450	450	780	3300	<1.8	<1.8	<1.8	200	<1.8
14	Ammonia mg/l	0.845	0.057	0.05	0.016	0.022	0.015	0.02	0.06	0.04

Table 3-al: RIVER CHAPORA NEAR SIOLIM BRIDGE 2012-2013

Sr. No	Parameters	Jul-12	Aug-12	Sep-12	Oct-12	Nov-12	Dec-12	Jan-13	Feb-13	Mar-13
1	pH	6.55	7.18	7.48	7.95	8.01	7.97	7.97	7.84	7.03
2	Temperature °C	29	29	29	30	27	30	29	29	32
3	Conductivity µs/cm	4780	35900	11920	39500	46500	48300	37800	35320	41150
4	Dissolved Oxygen mg/l	6.7	7	6.8	5.3	6.7	5.3	5.9	6.4	5.3
5	Turbidity (NTU)	11.1	4.35	4.1	3.09	2.19	4.93	3.61	3.91	3.75
6	Nitrite Nitrogen mg/l	0.017	0.004	0.003	0.004	0.008	0.018	0.003	0.005	0.01
7	Nitrogen(Nitrate) mg/l	0.114	0.04	0.03	0.022	0.025	0.05	0.01	0.008	0.01
8	Phosphate mg/l	0.03	0.02	0.05	0.028	0.008	0.02	0.02	0.01	0.02
9	BOD mg/l	1.1	1.6	1.5	1.9	2.2	1.4	1.3	1.9	1.3
10	COD mg/l	1	20	18	32.24	29	26	28	29	29
11	Chloride mg/l	9995.48	13374.58	2451.72	14333.14	18152.17	19330.89	12376.48	11079.9	15205.39
12	Fecal Coliform MPN/100 ml	780	NIL	4600	1300	200	450	200	1300	NIL
13	Total Coliform MPN/100 ml	7900	1300	13000	2300	450	1100	200	2200	780
14	Ammonia mg/l	0.279	0.042	0.08	0.017	0.012	0.017	0.03	0.2	0.07

Table 3-am: RIVER SINQUERIM, CANDOLIM SIDE 2012-2013

Sr. No	Parameters	Jul-12	Aug-12	Sep-12	Oct-12	Nov-12	Dec-12	Jan-13	Feb-13	Mar-13
1	pH	7.45	7.19	7.36	7.89	7.98	8	7.7	7.71	7.8
2	Temperature °C	28	29	31	30	29	29	30	31	33
3	Conductivity µs/cm	26850	37000	28950	48700	50700	47800	52600	53080	540501
4	Dissolved Oxygen mg/l	5.3	5.1	5.4	4.9	6.3	5.5	5.3	5.7	4.6
5	Turbidity (NTU)	13.6	6.59	5.47	3.52	6.28	6.41	6.24	12.4	7.3
6	Nitrite Nitrogen mg/l	0.017	0.007	0.005	0.06	0.012	0.013	0.004	0.01	0.01
7	Nitrogen(Nitrate) mg/l	0.125	0.13	0.05	0.005	0.008	0.03	0.01	0.01	0.01
8	Phosphate mg/l	0.06	0.02	4431.96	0.01	0.016	0.03	0.03	0.04	0.04
9	BOD mg/l	0.8	1.9	1.5	1.3	2.3	1.6	1.4	1.7	1.1
10	COD mg/l	12	2.2	20	25	16	31	29	35	32
11	Chloride mg/l	12447.2	16160.95	4431.96	18390.04	18623.66	19920.24	18152.17	22041.9	20038.11
12	Fecal Coliform MPN/100 ml	450	200	200	400	NIL	200	1100	200	1300
13	Total Coliform MPN/100 ml	2300	1300	3300	680	<1.8	400	1700	400	2300
14	Ammonia mg/l	0.007	0.002	0.02	0.03	0.008	0.006	0.03	0.12	0.1

Table 3-an: RIVER SINQUERIM, NEAR GANPATI TEMPLE 2012-2013

Sr. No	Parameters	Jul-12	Aug-12	Sep-12	Oct-12	Nov-12	Dec-12	Jan-13	Feb-13	Mar-13
1	pH	7.25	7.37	7.33	7.91	7.96	7.94	7.82	7.74	7.91
2	Temperature °C	29	29	31	31	29	29	30	30	33
3	Conductivity µs/cm	29230	38800	30700	49000	51000	47600	52390	52900	53800
4	Dissolved Oxygen mg/l	5.1	5.1	5.4	5.1	6.4	4.9	5.2	5.7	5.1
5	Turbidity (NTU)	14.2	6.25	6.54	4.55	7.75	4.57	7.34	8.79	4.29
6	Nitrite Nitrogen mg/l	0.009	0.008	0.006	0.006	0.01	0.013	0.004	0.01	BDL
7	Nitrogen(Nitrate) mg/l	0.094	0.13	0.05	0.012	0.016	0.09	0.01	0.02	0.02
8	Phosphate mg/l	0.08	0.03	0.03	0.01	0.016	0.02	0.02	0.03	0.03
9	BOD mg/l	0.6	1.6	1.2	1	2.5	1.3	1.2	1.4	0.9
10	COD mg/l	12	15	19	27	23	29	31	33	29
11	Chloride mg/l	8298.14	13560.33	5092.04	18297.16	20038.11	19802.37	18270.04	18270.0	20391.73
12	Fecal Coliform MPN/100 ml	780	450	200	1300	680	2300	1100	1700	13000
13	Total Coliform MPN/100 ml	3300	1300	2300	2200	1100	4900	1700	4900	24000
14	Ammonia mg/l	0.016	0.021	0.01	0.03	0.029	0.012	0.03	0.08	0.08

Table 3-ao: RIVER MANDOVI AT IFFI JETTY 2012-2013

Sr. No	Parameters	Jul-12	Aug-12	Sep-12	Oct-12	Nov-12	Dec-12	Jan-13	Feb-13	Mar-13
1	pH	7.18	7.24	7.9	8.04	7.9	8.13	8.05	7.73	7.78
2	Temperature °C	29	30	31	31	28	29	30	30	27
3	Conductivity µs/cm	20270	31100	30200	50800	47000	48600	49840	50480	52820
4	Dissolved Oxygen mg/l	6.8	6.2	6.2	6	5.3	6.4	5.7	5.6	5.2
5	Turbidity (NTU)	17.8	9.16	6.05	8.64	3.4	6.14	9.13	12.45	5.09
6	Nitrite Nitrogen mg/l	0.01	0.031	0.004	0.02	0.024	0.0134	0.01	0.01	0.01
7	Nitrogen(Nitrate) mg/l	0.088	0.05	0.041	0.037	0.046	0.021	0.09	0.22	0.02
8	Phosphate mg/l	0.04	0.03	0.083	0.033	0.026	0.012	0.016	0.03	0.03
9	BOD mg/l	1	1.2	1.3	1.5	1.5	1.1	1.9	1.6	1.4
10	COD mg/l	17	19	6	35	28.08	27	37	32	28
11	Chloride mg/l	9901.19	10773.96	22074	19690.35	16879.16	20369.57	16384.1	21333.8	20545.05
12	Fecal Coliform MPN/100 ml	2300	1100	NIL	200	780	2100	680	NIL	NIL
13	Total Coliform MPN/100 ml	17000	2300	2300	200	1300	4000	1100	450	200
14	Ammonia mg/l	0.398	0.014	0.001	0.04	0.016	0.016	0.11	0.09	0.05

Table 3-ap: RIVER MANDOVI NEAR HOTEL MARIOTT 2012-2013

Sr. No	Parameters	Jul-12	Aug-12	Sep-12	Oct-12	Nov-12	Dec-12	Jan-13	Feb-13	Mar-13
1	pH	7.48	7.16	7.94	8.01	7.91	8.04	7.98	7.71	7.42
2	Temperature °C	28	31	31	31	29	29	29	29	26
3	Conductivity µs/cm	24630	31600	32500	50800	47900	48400	42550	49880	52920
4	Dissolved Oxygen mg/l	6.8	6.6	6.3	5.9	5.6	5.5	5.7	5.5	5.5
5	Turbidity (NTU)	16.8	10.4	4.79	15.3	15.6	5.07	3.65	5.39	4.56
6	Nitrite Nitrogen mg/l	0.007	0.02	0.007	0.007	0.024	0.016	0.01	0.01	0.01
7	Nitrogen(Nitrate) mg/l	0.129	0.07	0.02	0.001	0.041	0.027	0.019	0.2	0.02
8	Phosphate mg/l	0.08	0.02	0.101	0.07	0.044	0.018	0.031	0.008	0.03
9	BOD mg/l	2	1.4	0.8	2.2	1.3	1.3	3.2	1.9	1.7
10	COD mg/l	12	20	33	42	32.4	25	41	29	30
11	Chloride mg/l	3866.18	15789.43	10876	17879.21	20745.34	20851.69	18977.27	23623.88	21851.38
12	Fecal Coliform MPN/100 ml	1700	780	200	NIL	780	1700	3300	1300	11000
13	Total Coliform MPN/100 ml	17000	3300	3300	<1.8	2300	3300	7900	1700	17000
14	Ammonia mg/l	0.23	0.032	0.006	0.006	0.038	0.035	0.07	0.059	0.07

Table 3-aq: RIVER MANDOVI AT AMONA 2012-2013

Sr. No	Parameters	Jul-12	Aug-12	Sep-12	Oct-12	Nov-12	Dec-12	Jan-13	Feb-13	Mar-13
1	pH	6.28	6.9	7.48	7.02	7.42	7.21	7.73	6.95	6.77
2	Temperature °C	28	31	29	25	28	28	29	30	27
3	Conductivity µs/cm	215.1	146.4	189.5	474	6500	19600	22170	27250	33400
4	Dissolved Oxygen mg/l	6.6	6.8	6.8	6.6	6.2	5.2	6.7	6.1	5.5
5	Turbidity (NTU)	12.1	4.38	5.56	8.81	8.16	6.91	6.16	5.54	5.05
6	Nitrite Nitrogen mg/l	0.015	0.004	0.003	0.005	0.006	0.036	0.024	0.058	0.013
7	Nitrogen(Nitrate) mg/l	0.084	0.12	0.072	0.07	0.081	0.08	0.05	0.176	0.032
8	Phosphate mg/l	0.02	0.01	0.023	0.006	0.006	0.011	0.036	0.008	0.01
9	BOD mg/l	0.9	0.9	1.2	0.8	2.1	1.7	2.4	1.1	1.3
10	COD mg/l	1	10	6	8	27	23	38	5	7
11	Chloride mg/l	6.13	26.93	34.56	282.8	1980.24	6935.44	6129.31	10365.32	12944.57
12	Fecal Coliform MPN/100 ml	780	200	780	1700	400	NIL	400	NIL	200
13	Total Coliform MPN/100 ml	4900	1300	7900	3400	680	<1.8	680	200	400
14	Ammonia mg/l	0.446	0.019	0.019	0.026	0.018	0.039	0.058	0.054	0.076

Table 3-ar: RAI LAKE 2012-2013

Sr. No	Parameters	Jul-12	Aug-12	Sep-12	Oct-12	Nov-12	Dec-12	Jan-13	Feb-13	Mar-13
1	pH	6.28	5.97	7.07	6.55	6.92	6.75	7.38	6.41	6.32
2	Temperature °C	30	29	34	31	31	29	29	33	35
3	Conductivity µs/cm	69.2	71.6	71.2	72.5	75.1	85.1	102.22	206.85	114.42
4	Dissolved Oxygen mg/l	6.5	4.9	4.4	3.6	5.8	5.3	6.1	7	6.1
5	Turbidity (NTU)	3.26	4.26	2.38	2.71	1.8	6.29	8.49	25.4	26.3
6	Nitrite Nitrogen mg/l	0.29	0.003	0.002	0.003	0.003	0.004	0.007	0.0001	0.01
7	Nitrogen(Nitrate) mg/l	0.018	0.17	0.004	0.004	0.005	0.007	0.02	0.556	0.01
8	Phosphate mg/l	0.02	0.01	0.004	0.015	0.014	0.015	0.006	0.229	0.06
9	BOD mg/l	2	2.4	1.6	2	1.5	2.1	2.7	3.2	4.9
10	COD mg/l	2	3	3	8	10	12	21	17	34
11	Chloride mg/l	30.18	6.97	7.49	8.96	12.73	10.45	12.73	13.02	12.83
12	Fecal Coliform MPN/100 ml	NIL	NIL	NIL	780	2100	200	200	NIL	780
13	Total Coliform MPN/100 ml	<1.8	200	1300	1300	3300	450	450	2300	3300
14	Ammonia mg/l	1.178	0.132	0.007	0.048	0.018	0.018	0.03	0.064	0.4

Table 3-as: SAIPEM LAKE, NAVEILIM 2012-2013

Sr. No	Parameters	Jul-12	Aug-12	Sep-12	Oct-12	Nov-12	Dec-12	Jan-13
1	pH	6.53	6.28	7.2	7.02	7.1	6.85	6.96
2	Temperature °C	30	27	31	31	30	26	26
3	Conductivity µs/cm	308	128.5	313	312	383	345	424.55
4	Dissolved Oxygen mg/l	2.3	4.6	4.9	3.7	1.4	1.2	0
5	Turbidity (NTU)	10.4	37.7	9.94	14.3	24.9	15.5	11.99
6	Nitrite Nitrogen mg/l	0.017	0.11	0.015	0.016	0.013	0.006	0.007
7	Nitrogen(Nitrate) mg/l	0.093	1.12	0.004	0.335	0.017	0.009	BDL
8	Phosphate mg/l	0.18	0.06	0.222	0.514	0.297	0.711	0.02
9	BOD mg/l		3.6	4.9	8.8	9	7.81	2
10	COD mg/l	16	2	4	26	41	25	11
11	Chloride mg/l	5.19	7.89	33.69	34.42	50.45	41.33	40.55
12	Fecal Coliform MPN/100 ml	9400	7900	2300	4100	4600	7900	17000
13	Total Coliform MPN/100 ml	17000	24000	9400	24000	14000	17000	22000
14	Ammonia mg/l	4.295	0.043	0.391	10.262	11.676	10.654	10.829

Table 3-at: CURTORIM LAKE, CURTORIM 2012-2013

Sr. No	Parameters	Jul-12	Aug-12	Sep-12	Oct-12	Nov-12	Dec-12	Jan-13	Feb-13	Mar-13
1	pH	6.2	6.07	6.7	6.6	7.38	6.88	7.26	6.91	6.15
2	Temperature °C	30	28	32	31	33	30	30	28	35
3	Conductivity µs/cm	86	47.2	102.9	124.2	129.8	151.3	164.58	329.75	168.86
4	Dissolved Oxygen mg/l	5.2	6.4	2.9	2.7	3.8	2.5	4.8	6.1	5.9
5	Turbidity (NTU)	34.6	6.79	13.4	12.6	5.64	20	7.32	8.21	13.66
6	Nitrite Nitrogen mg/l	0.037	0.004	0.006	0.011	0.005	0.006	0.005	0.0003	0.01
7	Nitrogen(Nitrate) mg/l	0.091	0.25	0.018	0.033	0.007	0.009	BDL	0.088	0.01
8	Phosphate mg/l	0.04	0.01	0.021	0.097	0.117	0.015	0.019	0.001	0.02
9	BOD mg/l	2.9	1.7	2.2	16	8.8	16	2.5	2.9	3.4
10	COD mg/l	4	1	4	41	26	43	15	19	12
11	Chloride mg/l	37.25	3.25	7.95	15.09	17.92	19	15.09	17.84	17.58
12	Fecal Coliform MPN/100 ml	NIL	180	680	2600	680	6300	200	NIL	780
13	Total Coliform MPN/100 ml	1400	4900	2200	4800	1100	14000	400	780	1300
14	Ammonia mg/l	0.983	0.033	0.025	0.116	0.023	0.027	0.039	0.063	0.07

Table 3-au: RIVER ZUARI AT MADKAI JETTY 2012-2013

Sr. No	Parameters	Jul-12	Aug-12	Sep-12	Oct-12	Nov-12	Dec-12	Jan-13	Feb-13	Mar-13
1	pH	6.35	6.42	7.65	7.8	7.64	7.47	7.51	7.5	7.58
2	Temperature °C	28	29	31	25	31	29	29	31	30
3	Conductivity µs/cm	181.3	8520	37600	44000	46000	42900	47240	48900	49800
4	Dissolved Oxygen mg/l	6.4	6.1	5.1	4.7	5.3	4.8	5.9	4.5	4.2
5	Turbidity (NTU)	90	11.3	7.91	7.62	18.5	15.5	23.1	15.08	13.67
6	Nitrite Nitrogen mg/l	0.005	0.01	0.011	0.009	0.01963	0.0721	0.026	0.014	BDL
7	Nitrogen(Nitrate) mg/l	0.023	0.12	0.016	0.02	0.093	0.053	0.043	0.096	0.19
8	Phosphate mg/l	0.13	0.02	0.053	0.05	0.0416	0.1096	0.151	0.04	0.04
9	BOD mg/l	0.8	1.45	1.6	1	1.3	2.6	1.3	1	1.2
10	COD mg/l	7	8	19	12	22	21	25	34	31
11	Chloride mg/l	57.52	14.4	6636.24	16596.5	16609.74	16804	17886.65	49977.41	21854.93
12	Fecal Coliform MPN/100 ml	780	180	780	200	200	NIL	NIL	NIL	200
13	Total Coliform MPN/100 ml	4900	7000	1300	450	200	<1.8	<1.8	450	200
14	Ammonia mg/l	0.444	0.64	0.074	0.08	0.0332	0.044	0.028	0.071	0.05

Table 3-av: RIVER ZUARI AT BORIM BRIDGE 2012-2013

Sr. No	Parameters	Jul-12	Aug-12	Sep-12	Oct-12	Nov-12	Dec-12	Jan-13	Feb-13	Mar-13
1	pH	6.34	6.77	6.93	6.97	7.25	7.08	7.07	7.28	7.53
2	Temperature °C	29	29	32	31	31	29	29	31	32
3	Conductivity µs/cm	250.7	71.4	12970	463	29460	30500	32040	37800	38000
4	Dissolved Oxygen mg/l	6.1	6.1	5.5	6	4.5	4.8	5.4	5	3.8
5	Turbidity (NTU)	11.4	14.4	10.6	0.45	19.4	22.4	8.72	5.17	5.42
6	Nitrite Nitrogen mg/l	0.005	0.007	0.007	0.004	0.0338	0.091	0.002	0.018	BDL
7	Nitrogen(Nitrate) mg/l	0.137	0.07	0.011	0.011	0.0791	0.097	0.119	0.034	0.47
8	Phosphate mg/l	0.02	0.02	0.033	0.009	0.095	0.0783	0.034	0.018	0.02
9	BOD mg/l	0.6	0.7	1.3	2.1	1.4	1.6	2	1.2	1
10	COD mg/l	6	1	11.44	15	30	23	24	26	25
11	Chloride mg/l	10.84	10.68	3917.23	2760.85	10733.19	12303	13065.45	37483.06	13355.79
12	Fecal Coliform MPN/100 ml	450	4600	7900	450	11000	200	3400	200	780
13	Total Coliform MPN/100 ml	1700	12000	35000	780	17000	200	4800	450	1100
14	Ammonia mg/l	0.132	0.032	0.071	0.044	0.0578	0.039	0.025	0.036	0.03

Table 3-aw: CARAMBOLIM LAKE 2012-2013

Sr. No	Parameters	Oct-12
1	pH	6.6
2	Temperature °C	25
3	Conductivity µs/cm	157.7
4	Dissolved Oxygen mg/l	0
5	Turbidity (NTU)	28.1
6	Nitrite Nitrogen mg/l	0.009
7	Nitrogen(Nitrate) mg/l	0.02
8	Phosphate mg/l	0.002
9	BOD mg/l	10.3
10	COD mg/l	15
11	Chloride mg/l	16.97
12	Fecal Coliform MPN/100 ml	1300
13	Total Coliform MPN/100 ml	2600
14	Ammonia mg/l	0.2

Table 3-axBOREWELL/ TUBEWELL/OPENWELL IN MADKAI INDUSTRIAL ESTATE

Sr. No	Parameters	Oct-12
1	pH	6.15
2	Temperature °C	30
3	Conductivity µs/cm	52.3
4	Dissolved Oxygen mg/l	4.9
5	Turbidity (NTU)	2.83
6	Nitrite Nitrogen mg/l	BDL
7	Nitrogen(Nitrate) mg/l	0.3
8	Phosphate mg/l	0.01
9	BOD mg/l	0.1
10	COD mg/l	11
11	Chloride mg/l	12.25
12	Fecal Coliform MPN/100 ml	NIL
13	Total Coliform MPN/100 ml	<1.8
14	Ammonia mg/l	0.1

Table 3-ay: NWMP DATA FOR THE MONTH OF APRIL 2012

Sr. No	Parameters	RIVER CHAPORA NEAR ALORNA FORT, PERNEM	RIVER KALNA AT CHANDEL, PERNEM	RIVER MAPUSA ON CULVERT ON HIGHWAY MAPUSA-PANAJI	RIVER ASSANORA AT ASSANORA	RIVER VALVANTI AT SANQUELIM	RIVER MADEIAT DABOSE, VALPOI	RIVER KHANDEP AR, OPA, PONDA	RIVER KHANDEP R AT CODLI	RIVER KUSHAWATI NEAR BUND AT KEVONA, RIVONA, SANGUEIM	RIVER TALPONA AT CANACON A	RIVER SAL AT PAZORCONI, CUNCOLIM	RIVER SAL AT MOBOR
1.	Total Dissolved Solids(mg/l)	4358	140	10150	42	70	144	12	40	94	42	98	38282
2.	Total Fixed Solids (mg/l)	12	22	18	38	10	32	54	44	30		46	56
3.	Total Suspended Solid (mg/l)	24	2	4	2	8	2	2	4	12	4	8	20
4.	Hardness(mg/l)	666	26	1556	24	20	48	36	32	80	22	20	6000
5.	Fluoride(mg/l)	0.56	0.13	0.66	0.06	0.01	ND	0.1	0.12	0.02	0.05	ND	1.48
6.	Boron(mg/l)	0.026	4.801	1.743	0.492	0.319	0.733	0.607	1.057	0.665	0.513	0.031	1.322
7.	Sulphate (mg/l)	261.47	2.28	656.05	2.57	1.52	4.35	2.31	2.78	3.02	1.93	14.05	2792.61
8.	Total Alkalinity(mg/l)	40	10	70	20	30	40	40	30	90	30	30	120
9.	Phenolphthalein Alkalinity(mg/l)	0	0	0	0	0	0	0	0	0	0	0	0
10.	Sodium(mg/l)	1607	8.7	3794	8.7	8.7	9.9	9.9	10	8.9	8.9	9.1	1875
11.	Potassium(mg/l)	43.9	4.7	108.5	4.7	4.7	4.5	4.5	4.45	4.7	4.8	5	496.4
12.	Calcium(mg/l)	45.69	6.41	112.22	4.8	4	10.42	10.42	9.61	20.04	7.21	7.21	561.12
13.	Magnesium(mg/l)	135.1	3.4	311.04	3.88	3.4	3.4	3.4	2.91	8.26	1.94	1.45	1215
14.	Nickel(mg/l)	0.061	0.022	0.09	0.015	0.01	0.011	0.011	ND	0.009	ND	ND	0.329
15.	Copper(mg/l)	0.044	0.132	0.154	0.04	0.028	0.037	0.037	0.035	0.036	0.037	0.124	0.191
16.	Chromium(mg/l)	ND	ND	0.012	ND	ND	ND	ND	ND	ND	ND	ND	0.166
17.	Cadmium(mg/l)	0.033	0.02	0.038	0.03	0.024	0.027	0.027	0.026	0.028	0.03	0.027	0.101
18.	Zinc(mg/l)	0.023	0.027	0.039	0.052	0.035	0.011	0.011	0.017	0.054	0.053	0.172	0.052
19.	Lead(mg/l)	0.135	0.073	0.187	ND	ND	ND	ND	ND	ND	ND	ND	0.267
20.	Iron(mg/l)	0.241	0.531	0.453	1.162	0.698	0.523	0.523	0.249	0.598	4.005	2.813	0.809
21.	Manganese (mg/l)	0.05	0.113	0.14	0.153	0.07	0.04	0.04	0.016	0.135	0.24	0.283	0.105
22.	Alpha BHC (ppb)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
23.	Beta BHC (ppb)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
24.	Gamma BHC (ppb)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
25.	Hexachloro benzene (ppb)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
26.	Heptachlor (ppb)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
27.	Aldrin (ppb)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
28.	Dieldrin (mg/l)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
29.	Edrin (ppb)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
30.	Methoxychlor (ppb)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
31.	414'DDE (ppb)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

32.	2,4'DDD (ppb)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
33.	2,4'DDT (ppb)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
34.	414'DDT (ppb)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
35.	Heptachlor endo-epoxide (ppb)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
36.	Alpha endosulphate (ppb)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
37.	β-endosulphar (ppb)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
38.	carbaryl (mg/l)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
39.	Anilofos (mg/l)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
40.	Parathion methyl (ppb)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
41.	Malathion (mg/l)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
42.	Chloropylos (ppb)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

Table 3-az: NWMP DATA FOR THE MONTH OF APRIL 2012

Sr. No	Parameters	HARWALE WATERFALL	RIVER BICHOLIM, BARAZAN NAGAR, BICHOLIM	MAYEM LAKE AT MAYEM	CUMBHARJUA CANAL, CORLIM	RIVER ZUARI AT PANCHAWA DI	RIVER ZUARI AT CORTALIM 2012-2013	CREEK AT DANDO MOLLO, VELSÃO, MORMUGAO	RIVER MANDOWI AT PANAJI	RIVER MANDOWI AT TONCA MARGELA	RIVER SELAULIM LAKE AT SELAULIM,	BOREWELL/TU BE WELL/ OPEN WELL IN ZUARI INDUSTRIES LTD
1.	Total Dissolved Solids(mg/l)	484	192	38	38928	9558	29840	4812	36854	29404	228	220
2.	Total Fixed Solids (mg/l)		8	40	10	46	16	4	60	42	24	
3.	Total Suspended Solid (mg/l)	2	2	2	6	2	34		42	24	4	2
4.	Hardness(mg/l)	24	76	12	5400	1200	6000	820	6400	4200	18	92
5.	Fluoride(mg/l)	0.11	ND	0.02	1.32	0.61	1.4	0.64	1.55	1.15	0.1	0.08
6.	Boron(mg/l)	0.04	0.199	0.07	3.94	1.272	3.084	0.67	6.167	4.529	0.136	0.178
7.	Sulphate (mg/l)	0.81	3.57	1.93	2209.12	328.69	2629.54	396.98	2573.48	1561.92	2.2	4.36
8.	Total Alkalinity(mg/l)	30	60	20	110	50	100	100	140	100	20	90
9.	Phenolphthalein Alkalinity(mg/l)	0	0	0	0	0	20	0	20	0	0	0
10.	Sodium(mg/l)	8.7	10.2	8.7	997	3533	1830	2199	2470	6394	8.9	15.4
11.	Potassium(mg/l)	4.7	5	4.6	428.2	98	471.9	100	503.5	368.1	7.2	7.5
12.	Calcium(mg/l)	6.41	5.23	5.61	320.64	96.19	320.64	80.16	480.96	320.04	4.8	15.23
13.	Magnesium(mg/l)	2.91	10.2	0.48	1215	243	1360.8	160.38	1360.8	923.4	2.43	14.09
14.	Nickel(mg/l)	ND	ND	ND	0.13	0.064	0.187	0.0138	0.227	0.386	ND	0.06
15.	Copper(mg/l)	0.04	0.04	0.038	0.09	0.059	0.092	0.054	0.096	0.108	0.045	0.042
16.	Chromium(mg/l)	ND	ND	ND	ND	ND	0.044	ND	0.097	0.152	ND	ND
17.	Cadmium(mg/l)	0.033	0.03	0.04	0.079	0.051	0.067	0.047	0.085	0.128	0.035	0.037
18.	Zinc(mg/l)	0.023	0.23	0.05	0.021	0.052	0.06	0.051	0.062	0.068	0.052	0.032

19.	Lead(mg/l)	ND	ND	ND	ND	ND	ND	ND	0.047	0.184	0.052	0.38	0.446	ND	ND
20.	Iron(mg/l)	0.349	2.7	1.48	0.587	0.732	1.633	0.94	0.911	1.447	0.725	1.321	0.095	0.097	0.095
21.	Manganese (mg/l)	0.098	0.22	0.16	0.149	0.284	0.156	0.085	0.085	0.193	0.097	0.095	0.097	0.097	0.095
22.	Alpha BHC (ppb)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
23.	Beta BHC (ppb)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
24.	Gamma BHC (ppb)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
25.	Hexachloro benzene (ppb)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
26.	Heptachlor (ppb)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
27.	Aldrin (ppb)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
28.	Dieldrin (mg/l)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
29.	Edrin (ppb)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
30.	Methoxychlor (ppb)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
31.	414'DDE (ppb)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
32.	2,4'DDD (ppb)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
33.	2,4'DDT (ppb)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
34.	414'DDT (ppb)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
35.	Heptachlor endo-epoxide (ppb)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
36.	Alpha endosulphate (ppb)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
37.	β-endosulphar (ppb)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
38.	carbaryl (mg/l)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
39.	Anilofos (mg/l)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
40.	Parathion methyl (ppb)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
41.	Malathion (mg/l)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
42.	Chlorpylos (ppb)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

Table 3-ba: NWMP DATA FOR THE MONTH OF APRIL 2012

Sr.	Parameters	BOREWEL L/TUBE WELL/ OPEN WELL AT VERNA IE	BOREWELL/ TUBE WELL/ OPEN WELL KUNDAIM IE	BORE WELL/ TUBE WELL / OPENWELL IN CORLIM IE	BOREWELL/TU BE WELL/OPEN WELL IN PILERNE IE	AGRICULTU RAL CANAL UPSTREAM OF CUNCOLIM IE	AGRICULTUR AL CANAL DOWNSTREA M OF CUNCOLIM IE	RIVER SAL AT RUMDER, NUVEM	RIVER SAL AT ORLIM BRIDGE	RIVER SAL AT KHAREBAND , MARGAO	RIVER SAL AT JACKNI BAND, NAVELIM	RIVER SAL AT MUNGUL, MARGAO
1.	Total Dissolved Solids(mg/l)	190	144	50	1232	44	50	124	24884	214	486	234
2.	Total Fixed Solids (mg/l)	6		14	42	48	38	54	48	40	18	
3.	Total Suspended Solid (mg/l)		14	2	2		14	40	14	18	2	8
4.	Hardness(mg/l)	92	86	6	80	18	24	38	4400	64	88	108
5.	Fluoride(mg/l)	0.01	0.23	ND	0.22	0.004	0.05	0.04	128	ND	0.27	0.177

6.	Boron(mg/l)	0.23	0.209	0.308	0.115	0.068	0.078	0.314	4.209	0.319	0.26	0.293
7.	Sulphate (mg/l)	13.25	25.48	0.61	10.05	1.66	5.73	2.83	3.82	9.73	16.05	4.59
8.	Total Alkalinity(mg/l)	80	90	10	110	40	20	50	100	90	60	130
9.	Phenolphthalein Alkalinity(mg/l)	0	0	0	0	0	0	0	0	0	0	0
10.	Sodium(mg/l)	13.1	9.6	8.9	18.2	8.8	17.3	14.9	6249	68.6	284.7	37.3
11.	Potassium(mg/l)	8.2	8.7	7.2	8	7.2	7.8	7.6	370.8	8.8	10.2	7.9
12.	Calcium(mg/l)	18.43	23.24	2.4	20	2.4	6.41	15.23	320.64	16.83	16.03	35.27
13.	Magnesium(mg/l)	12.15	7.77	0.97	7.77	3.88	2.91	0.97	972	6.31	12.63	5.83
14.	Nickel(mg/l)	ND	0.079	ND	ND	ND	ND	ND	0.123	ND	ND	ND
15.	Copper(mg/l)	0.042	0.065	0.063	0.047	0.042	0.049	0.045	0.073	0.043	0.045	0.042
16.	Chromium(mg/l)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
17.	Cadmium(mg/l)	0.04	0.027	0.053	0.039	0.037	0.034	0.037	0.052	0.04	0.038	ND
18.	Zinc(mg/l)	0.076	0.16	0.166	0.246	0.075	0.086	0.054	0.04	0.012	0.073	0.079
19.	Lead(mg/l)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
20.	Iron(mg/l)	0.438	0.928	1.455	3.041	0.449	1.157	5.527	0.569	1.514	0.928	6.221
21.	Manganese (mg/l)	0.094	0.275	0.155	0.448	0.104	0.159	2.698	0.133	0.159	0.145	0.613
22.	Alpha BHC (ppb)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
23.	Beta BHC (ppb)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
24.	Gamma BHC (ppb)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
25.	Hexachloro benzene (ppb)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
26.	Heptachlor (ppb)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
27.	Aldrin (ppb)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
28.	Dieldrin (mg/l)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
29.	Edrin (ppb)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
30.	Methoxychlor (ppb)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
31.	414'DDE (ppb)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
32.	2,4'DDD (ppb)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
33.	2,4'DDT (ppb)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
34.	414'DDT (ppb)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
35.	Heptachlor endo-epoxide (ppb)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
36.	Alpha endosulphate (ppb)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
37.	β-endosulphar (ppb)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
38.	carbaryl (mg/l)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
39.	Anilofos (mg/l)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
40.	Parathion methyl (ppb)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
41.	Malathion (mg/l)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
42.	Chloropylos (ppb)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

ANNEXURE IV

GANESH VISARJAN DATA

Table 4-a: River Mandovi at Ferry Point

Sr. No.	Parameters	Before Ganesh Visarjan	After Ganesh Visarjan	After 15 day of Ganesh visarjan
1	pH	7.12	7.6	7.9
2	Cond	3.93 ms/cm	33.3 ms/cm	45.7 μ s/cm
3	Turb NTU	14.7	3.12	2.57
4	DO mg/l	6.8	5.3	4.6
5	BOD mg/l	0.8	1.7	2.9
6	COD mg/l	8	24	22
7	NO ₃ -N mg/l	0.09	0.02	0.03
8	NO ₂ -N mg/l	0.01	0.01	0.003
9	PO ₄ -P mg/l	0.03	0.03	0.05
10	Ca mg/l	26.5	721.44	320.64
11	SO ₂ -4 mg/l	144.9	1249.5	2053.8
12	Chloride mg/l	31.92	11060.4	230.43
13	NH ₃ -N mg/l	0.1	0.37	0.09
14	Fecal Coliform MPN/100ml	4900	780	24000
15	Total Coliform MPN/100 ml	22000	9400	35000
16	Ni mg/l	0.01	0.12	0.17
17	Cr mg/l	0.01	0.16	0.24
18	Zn mg/l	0.05	0.06	0.07
19	Cd mg/l	0.03	0.06	0.07
20	Cu mg/l	0.02	0.01	0.02
21	Co mg/l	ND	0.08	0.15
22	Pb mg/l	0.05	0.25	0.15
23	Fe mg/l	0.21	0.3	0.36
24	Mn mg/l	0.01	0.02	0.03

Table 4-b: River Mapusa at Taricode- Mapusa

Sr.No	Parameters	Before Ganesh Visarjan	After Ganesh Visarjan	After 15 day of Ganesh visarjan
1	pH	6.45	6.9	7.2
2	Cond	210.9 μ s/cm	953 μ s/cm	113.8 μ s/cm
3	Turb NTU	6.45	4.83	4.93
4	DO mg/l	2.6	3.3	3
5	BOD mg/l	1.6	1.3	1.3
6	COD mg/l	9	6	7
7	NO ₃ -N mg/l	0.55	0.1	0.01
8	NO ₂ -N mg/l	0.03	0.004	0.15
9	PO ₄ -P mg/l	0.03	0.02	0.03
10	Ca mg/l	8.8	14.43	15.23
11	SO ₂ -4 mg/l	7.2	26.86	30.81
12	Chloride mg/l	103.74	184.34	184.34
13	NH ₃ -N mg/l	1.46	0.13	0.16
14	Fecal Coliform MPN/100ml	2200	1300	1700
15	Total Coliform MPN/100 ml	24000	35000	22000
16	Ni mg/l	0.003	0.01	0.02
17	Cr mg/l	ND	0.05	0.06
18	Zn mg/l	0.05	0.05	0.05
19	Cd mg/l	0.03	0.04	0.04
20	Cu mg/l	0.02	0.03	0.04
21	Co mg/l	ND	ND	ND
22	Pb mg/l	0.04	0.04	0.35
23	Fe mg/l	1.26	0.34	0.48
24	Mn mg/l	0.1	0.04	0.05

Table 4-c: Carambolim Lake at Carambolim

Sr.No	Parameters	Before Ganesh Visarjan	After Ganesh Visarjan	After 15 day of Ganesh visarjan
1	pH	6.85	6.66	6.96
2	Cond	115.5 μ s/cm	164.7 μ s/cm	180.5 μ s/cm
3	Turb NTU	9.7	11.1	12.5
4	DO mg/l	3.8	0.9	4
5	BOD mg/l	1.5	-	-
6	COD mg/l	4	9	12
7	NO ₃ -N mg/l	0.01	0.06	0.05
8	NO ₂ -N mg/l	0.03	BDL	0.004
9	PO ₄ -P mg/l	0.03	0.03	0.02
10	Ca mg/l	12.02	13.63	17.64
11	So ₂ -4 mg/l	7.7	7.04	8.63
12	Chloride mg/l	11.55	16	18.29
13	NH ₃ -N mg/l	0.03	0.29	0.1
14	Fecal Coliform MPN/100ml	680	4900	7900
15	Total Coliform MPN/100 ml	3300	24000	17000
16	Ni mg/l	0.003	ND	ND
17	Cr mg/l	ND	0.05	0.04
18	Zn mg/l	0.05	0.04	0.05
19	Cd mg/l	0.04	0.04	0.04
20	Cu mg/l	0.01	0.01	0.01
21	Co mg/l	ND	ND	ND
22	Pb mg/l	0.03	0.03	0.04
23	Fe mg/l	1.26	1.46	2.58
24	Mn mg/l	ND	0.06	0.08

Table 4-d: Carkhamba (Mansher) Panaji – St. Cruz road

Sr.No	Parameters	Before Ganesh Visarjan	After Ganesh Visarjan	After 15 day of Ganesh visarjan
1	pH	7.33	7.32	7.54
2	Cond	1274 μ s/cm	18.77 ms/cm	27.3 ms/cm
3	Turb NTU	16.4	4.43	5.73
4	DO mg/l	5.4	5	4.4
5	BOD mg/l	2.5	1.9	2
6	COD mg/l	9	16	16
7	NO ₃ -N mg/l	0.06	0.05	0.06
8	NO ₂ -N mg/l	0.03	BDL	0.01
9	PO ₄ -P mg/l	0.03	0.03	0.02
10	Ca mg/l	17.63	3.21	240.48
11	So ₂ -4 mg/l	37.38	850.5	1302
12	Chloride mg/l	292.3	5579.1	7591.26
13	NH ₃ -N mg/l	0.06	0.06	0.06
14	Fecal Coliform MPN/100ml	2200	680	4900
15	Total Coliform MPN/100 ml	24000	17000	22000
16	Ni mg/l	0.004	0.07	0.13
17	Cr mg/l	ND	0.13	0.19
18	Zn mg/l	0.05	0.06	0.07
19	Cd mg/l	0.04	0.05	0.07
20	Cu mg/l	0.01	0.01	0.01
21	Co mg/l	ND	0.01	0.08
22	Pb mg/l	0.03	0.03	0.04
23	Fe mg/l	1.56	0.31	0.53
24	Mn mg/l	0.05	0.04	0.13

Table 4-e: Near the bridge Sanvorcoto (Cuncolim Municipal Council) 2012

Sr. No	Parameters	Before Ganesh Visarjan	After Ganesh Visarjan
1	pH	6.2	7.13
2	Cond	77.1 $\mu\text{s/cm}$	61.6 $\mu\text{s/cm}$
3	Turb NTU	4.79	4.32
4	DO mg/l	7.1	6.8
5	BOD mg/l	1	0.5
6	COD mg/l	2	2
7	No ₃ -N mg/l	0.34	0.3
8	No ₂ -N mg/l	0.004	0.004
9	PO ₄ -P mg/l	0.02	0.02
10	Ca mg/l	4.01	4.01
11	So ₂ -4 mg/l	10.31	6.03
12	Chloride mg/l	6.45	6.45
13	NH ₃ -N mg/l	0.4	0.09
14	Fecal Coliform MPN/100ml	200	1700
15	Total Coliform MPN/100 ml	4900	35000
16	Ni mg/l	0.2	0.03
17	Cr mg/l	ND	ND
18	Zn mg/l	0.34	0.14
19	Cd mg/l	0.02	0.03
20	Cu mg/l	0.004	0.01
21	Co mg/l	0.09	0.03
22	Pb mg/l	0.08	0.04
23	Fe mg/l	0.32	0.42
24	Mn mg/l	0.61	0.17

Table 4-f: Near the bridge , Chereaband , Dandora (Cuncolim Municipal Council)

Sr. No	Parameters	Before Ganesh Visarjan	After Ganesh Visarjan
1	pH	6.43	7.35
2	Cond	58.9 $\mu\text{s/cm}$	63.6 $\mu\text{s/cm}$
3	Turb NTU	4.67	4.77
4	DO mg/l	7.3	7.5
5	BOD mg/l	1	1
6	COD mg/l	7	9
7	No ₃ -N mg/l	0.2	0.15
8	No ₂ -N mg/l	0.002	0.01
9	PO ₄ -P mg/l	0.01	0.01
10	Ca mg/l	4.01	3.21
11	So ₂ -4 mg/l	2.23	4.64
12	Chloride mg/l	4.61	5.06
13	NH ₃ -N mg/l	BDL	0.11
14	Fecal Coliform MPN/100ml	200	3300
15	Total Coliform MPN/100 ml	2100	35000
16	Ni mg/l	ND	ND
17	Cr mg/l	ND	ND
18	Zn mg/l	0.04	0.05
19	Cd mg/l	0.01	0.03
20	Cu mg/l	ND	0.02
21	Co mg/l	0.01	0.004
22	Pb mg/l	0.08	0.04
23	Fe mg/l	0.28	0.33
24	Mn mg/l	0.05	0.02

Table 4-g: Uskiniband (Cuncolim Municipal Council)

Sr. No	Parameters	Before Ganesh Visarjan	After Ganesh Visarjan
1	pH	6.45	7.23
2	Cond	75.3 μ s/cm	67.2 μ s/cm
3	Turb NTU	6.23	10.3
4	DO mg/l	7.1	6.5
5	BOD mg/l	1.6	1.5
6	COD mg/l	4	2
7	NO ₃ -N mg/l	0.23	0.23
8	NO ₂ -N mg/l	0.01	0.01
9	PO ₄ -P mg/l	0.03	0.02
10	Ca mg/l	4.01	4.01
11	So ₂ -4 mg/l	8.76	8.38
12	Chloride mg/l	6.19	5.99
13	NH ₃ -N mg/l	0.21	0.08
14	Fecal Coliform MPN/100ml	200	2200
15	Total Coliform MPN/100 ml	4900	24000
16	Ni mg/l	0.08	0.02
17	Cr mg/l	ND	ND
18	Zn mg/l	0.17	0.12
19	Cd mg/l	0.02	0.04
20	Cu mg/l	0.004	0.01
21	Co mg/l	0.04	0.01
22	Pb mg/l	0.07	0.04
23	Fe mg/l	0.77	0.82
24	Mn mg/l	0.31	0.13

Table 4-h: Near railway over bridge , Kamral (Curchorem - Cacora Municipal Council) 2012

Sr. No	Parameters	Before Ganesh Visarjan	After Ganesh Visarjan
1	pH	6.35	6.96
2	Cond	45.4 μ s/cm	48.7 μ s/cm
3	Turb NTU	2.24	2.43
4	DO mg/l	7.8	7.5
5	BOD mg/l	1.1	1.6
6	COD mg/l	3	2
7	NO ₃ -N mg/l	0.06	0.03
8	NO ₂ -N mg/l	0.001	0.003
9	PO ₄ -P mg/l	0.05	0.004
10	Ca mg/l	4.01	4.01
11	So ₂ -4 mg/l	4.31	4.12
12	Chloride mg/l	3.23	3.69
13	NH ₃ -N mg/l	0.03	0.14
14	Fecal Coliform MPN/100ml	200	1300
15	Total Coliform MPN/100 ml	7900	4900
16	Ni mg/l	ND	ND
17	Cr mg/l	ND	ND
18	Zn mg/l	0.04	0.05
19	Cd mg/l	0.03	0.04
20	Cu mg/l	0.003	0.02
21	Co mg/l	0.02	ND
22	Pb mg/l	0.06	0.04
23	Fe mg/l	0.28	0.36
24	Mn mg/l	0.04	0.09

Table 4-i: Near Purushmaru temple (Curchorem – Cacora Municipal Council) 2012

Sr.No	Parameters	Before Ganesh Visarjan	After Ganesh Visarjan
1	pH	6.48	7.07
2	Cond	44.2 $\mu\text{s/cm}$	56.6 $\mu\text{s/cm}$
3	Turb NTU	3.45	2.54
4	DO mg/l	7.8	7.7
5	BOD mg/l	0.9	1.7
6	COD mg/l	3	2
7	No ₃ -N mg/l	0.11	0.04
8	No ₂ -N mg/l	0.002	0.004
9	PO ₄ -P mg/l	0.01	0.01
10	Ca mg/l	2.4	4.81
11	So ₂ -4 mg/l	1.03	4.07
12	Chloride mg/l	3.69	46.09
13	NH ₃ -N mg/l	0.14	0.07
14	Fecal Coliform MPN/100ml	610	1100
15	Total Coliform MPN/100 ml	7900	1700
16	Ni mg/l	ND	ND
17	Cr mg/l	ND	ND
18	Zn mg/l	0.04	0.06
19	Cd mg/l	0.02	0.03
20	Cu mg/l	0.01	0.01
21	Co mg/l	0.01	ND
22	Pb mg/l	0.05	0.03
23	Fe mg/l	0.2	0.39
24	Mn mg/l	0.04	0.1

Annexure V

AMBIENT AIR QUALITY DATA

Table 5-a Station : Panaji

Month	RSPM	SPM	NO ₂	SO ₂
	µg/m ³	µg/m ³	µg/m ³	µg/m ³
Apr-12	94	272	14	5
May-12	73	284	14	7
Jun-12	54	128	15	9
Jul-12	55	111	14	11
Aug-12	56	133	12	12
Sep-12	51	107	14	13
Oct-12	82	168	13	15
Nov-12	97	202	12	11
Dec-12	101	278	11	10
Jan-13	72	152	12	9
Feb-13	72	165	14	7
Mar-13	70	158	12	5

Table 5-b Station : Fuse Call Office,Vasco

Month	RSPM	SPM	NO ₂	SO ₂
	µg/m ³	µ g/m ³	µg/m ³	µg/m ³
Apr-12	74	220	16	8
May-12	65	205	19	10
Jun-12	38	94	16	8
Jul-12	32	56	13	11
Aug-12	39	74	10	12
Sep-12	42	79	15	12
Oct-12	40	67	14	14
Nov-12	85	120	12	11
Dec-12	68	118	11	9
Jan-13	69	122	12	9
Feb-13	61	102	14	8
Mar-13	62	120	11	5

Table 5-c Station : Nr. Fire Brigade Station-MPT,Vasco

Month	RSPM	SPM	NO ₂	SO ₂
	µ g/m ³	µ g/m ³	µ g/m ³	µ g/m ³
Apr-12	68	212	14	7
May-12	37	130	12	7
Jun-12	41	145	20	9
Jul-12	40	97	13	10
Aug-12	29	64	15	12
Sep-12	34	64	14	14
Oct-12	54	95	14	15
Nov-12	82	124	12	10
Dec-12	68	137	10	9
Jan-13	82	148	12	10
Feb-13	70	132	12	7
Mar-13	59	119	11	7

Table 5-d Station : Assanora

Month	RSPM	PM _{2.5}	NO ₂	SO ₂
	µ g/m ³	µ g/m ³	µ g/m ³	µ g/m ³
May-12	98.33	20.37	15.07	11.59
Jun-12	87.5	30.55	12.84	9.46
Jul-12	66.97	23.61	10.32	8.28
Aug-12	75.45	15.78	9.75	7.73
Sep-12	46.47	14.09	9.24	7.25
Oct-12	51.23	21.98	9.25	7.48
Nov-12	73.28	33.14	10.42	8.68
Dec-12	68.44	25.1	10.42	8.51
Jan-13	76.47	26.9	11.38	9.5
Feb-13	69.77	22.34	10.54	8.54
Mar-13	63.5	27.4	13.3	7.4

Table 5-e Station : Amona

Month	RSPM	PM _{2.5}	NO ₂	SO ₂
	µ g/m ³	µ g/m ³	µ g/m ³	µ g/m ³
Apr-12	104.48	51.39	16.05	12.79
May-12	91.06	37.03	14.55	11.77
Jun-12	94.61	35.18	13.55	10.72
Jul-12	51.55	22.68	10.02	7.94
Aug-12	93.29	23.05	10.45	8.46
Sep-12	56.7	14.87	9.64	7.47
Oct-12	55.89	19.86	9.21	7.29
Nov-12	74.16	28.42	10.42	8.55
Dec-12	70.27	29.42	10.08	8.07
Jan-13	74.73	24.81	10.5	8.92
Feb-13	63.87	23.64	10.19	8.24
Mar-13	49.4	24.3	13.1	7.2

Table 5-f Station : Bicholim

Month	RSPM	PM _{2.5}	NO ₂	SO ₂
	µ g/m ³	µ g/m ³	µ g/m ³	µ g/m ³
Apr-12	154.1	40.1	23.8	13.1
May-12	91.6	22.4	20.6	7.5
Jun-12	87.7	26.2	15.2	7.8
Jul-12	50.7	21.7	19.9	8.7
Aug-12	53.8	27.2	15.4	8.7
Sep-12	44.6	22.4	16.6	9.9
Oct-12	63.7	34.6	17.4	10.1
Nov-12	73.3	42.2	16.6	9.8
Dec-12	85.2	39.7	15	9
Jan-13	90	31.5	14.4	8.4
Feb-13	80.6	32.7	13.1	7.7
Mar-13	73.6	31.4	13.6	7.8

Table 5-g Station : Codli

Month	RSPM	PM _{2.5}	NO ₂	SO ₂
	µ g/m ³	µ g/m ³	µ g/m ³	µ g/m ³
Apr-12	186.29	56.67	20.93	17.14
May-12	207.24	56.09	21.92	15.86
Jun-12	64.55	17.61	20.95	14.08
Jul-12	52.83	13.81	16.34	11.99
Aug-12	57.23	18.41	16.79	12.32
Sep-12	61.16	26.49	16.41	12.41
Oct-12	73.54	33.36	19.4	14.59
Nov-12	71.21	33.38	16.48	12.51
Dec-12	71.59	35.23	16.44	12.58
Jan-13	72.02	32.65	15.4	12.59
Feb-13	70.72	31.62	14.87	12.08
Mar-13	48.6	20.3	12.9	7.4

Table 5-h Station : Curchorem

Month	RSPM	PM _{2.5}	NO ₂	SO ₂
	µ g/m ³	µ g/m ³	µ g/m ³	µ g/m ³
Apr-12	193.17	47.6	20.63	16.9
May-12	165.92	54.17	21.65	15.97
Jun-12	59.91	17.45	19.22	13.29
Jul-12	52.06	12.55	16.82	12.23
Aug-12	58.73	18.77	17.68	12.69
Sep-12	77.2	31.07	17.24	12.88
Oct-12	84.33	40.42	19.5	15.37
Nov-12	80.24	37.55	17.42	13.49
Dec-12	81.74	42.46	17.24	13.62
Jan-13	78.37	38.35	16.11	13.42
Feb-13	78.2	39.91	16.53	12.89
Mar-13	63.85	75.58	13.85	8.39

Table 5-i Station : Honda

Month	RSPM	PM _{2.5}	NO ₂	SO ₂
	µ g/m ³	µ g/m ³	µ g/m ³	µ g/m ³
Apr-12	231.07	58.75	21.93	18.22
May-12	211.39	58.23	21.84	16.55
Jun-12	84.24	27.28	19.04	13.83
Jul-12	56.3	17.76	16.75	12.22
Aug-12	57.08	18.81	17.09	11.89
Sep-12	65.16	26.52	16.69	12.37
Oct-12	79.53	37.13	19.46	14.78
Nov-12	74.02	37.62	16.52	12.97
Dec-12	74.95	37.03	16.44	12.5
Jan-13	73.32	35.96	15.61	12.27
Feb-13	73.31	32.56	14.66	11.99
Mar-13	69.6	28.9	14.1	8

Table 5-j Station : Kundaim Industrial Estate

Month	RSPM	PM _{2.5}	NO ₂	SO ₂
	µ g/m ³	µ g/m ³	µ g/m ³	µ g/m ³
Apr-12	Monitoring started from the month of June 2012			
May-12				
Jun-12	68.3	23.5	13.3	6.9
Jul-12	71.2	33.5	20.6	10.8
Aug-12	45.6	20.4	18.3	9.2
Sep-12	69.3	34.8	17	9.9
Oct-12	73.8	33.5	14	8.5
Nov-12	75.3	39.9	15	9.5
Dec-12	67.2	35.2	14.8	8.8
Jan-13	74.9	27.6	14.7	8.4
Feb-13	75.16	32.49	12.94	7.63
Mar-13	64.4	29.6	14	7.9

Table 5-k Station : Mapusa

Month	RSPM	PM _{2.5}	NO ₂	SO ₂
	µ g/m ³	µ g/m ³	µ g/m ³	µ g/m ³
Apr-12	123.57	39.81	8.65	6.45
May-12	80.46	30.09	8.67	6.42
Jun-12	79.11	23.61	8.15	6.11
Jul-12	74.47	26.39	9.58	7.2
Aug-12	61.7	17.59	9.98	7.94
Sep-12	44.78	15.16	9.75	7.65
Oct-12	53.23	26.29	9.48	7.68
Nov-12	69.46	36.57	11.16	9.03
Dec-12	69.43	29.63	11.13	8.98
Jan-13	71.94	29.49	11.32	9.67
Feb-13	75.07	28.85	10.94	8.64
Mar-13	73.41	31.87	12.63	10.55

Table 5-l Station : Margao

Month	RSPM	PM _{2.5}	NO ₂	SO ₂
	µ g/m ³	µ g/m ³	µ g/m ³	µ g/m ³
Apr-12	61.5	25.5	19.3	9.8
May-12	58.5	20.3	20.9	8
Jun-12	42.1	21.6	11.7	6
Jul-12	38.1	18.5	18.9	8.4
Aug-12	56.7	19.5	14.7	7.8
Sep-12	58.6	29.3	15.9	9.5
Oct-12	57.7	29.8	14.5	7.9
Nov-12	77.2	40	15.3	8.9
Dec-12	81.7	39	13.9	7.9
Jan-13	75.6	31.4	13.3	7.5
Feb-13	79.59	32.51	12.9	7.29
Mar-13	79.1	29.9	13.4	7.3

Table 5-m Station : Ponda

Month	RSPM	PM _{2.5}	NO ₂	SO ₂
	µ g/m ³	µ g/m ³	µ g/m ³	µ g/m ³
Apr-12	61.5	25.6	19.1	10
May-12	79.1	23.7	18.8	6.9
Jun-12	47.7	22.5	11.7	6.1
Jul-12	38	22.4	14.7	9
Aug-12	33	19.2	14.6	8.3
Sep-12	58.6	29.3	15.9	9.5
Oct-12	53.7	26.6	14	7.5
Nov-12	58.5	32.6	14.1	7.6
Dec-12	54.9	30.7	13.1	7.7
Jan-13	57.5	28.7	12.7	7
Feb-13	60.5	27.7	11.8	6.6
Mar-13	65.5	30.7	13.2	7.4

Table 5-n Station : Sanguem

Month	RSPM	PM _{2.5}	NO ₂	SO ₂
	µ g/m ³	µ g/m ³	µ g/m ³	µ g/m ³
Apr-12	166.03	42.11	20.82	17.08
May-12	149.04	38.35	21.36	15.07
Jun-12	51.63	17.42	18.67	12.78
Jul-12	51.78	12.52	16.84	12.25
Aug-12	59.2	16.34	17.21	12.35
Sep-12	64.51	23.67	17.43	12.93
Oct-12	72.37	35.03	19.05	14.37
Nov-12	68.32	30.74	16.92	13
Dec-12	72.32	35.28	17.08	12.74
Jan-13	72.08	31.79	15.4	12.52
Feb-13	70.37	33.91	15.35	12.51
Mar-13	63.9	29.8	13	7

Table 5-o Station : Tilamol-Quepem

Month	RSPM	PM _{2.5}	NO ₂	SO ₂
	µ g/m ³	µ g/m ³	µ g/m ³	µ g/m ³
Apr-12	182.26	48.35	20.89	16.7
May-12	178.38	50.03	21.33	15.3
Jun-12	63.66	17.31	20.57	13.87
Jul-12	53.51	15.21	16.55	12.2
Aug-12	64.22	18.79	17.72	12.76
Sep-12	74.2	31.73	17.78	13.41
Oct-12	87.18	40.18	19.69	15.04
Nov-12	81.79	44.3	17.11	13.4
Dec-12	85.28	44.3	17.09	13.38
Jan-13	85.67	42.01	16.2	13.51
Feb-13	84.47	43.88	16.61	13.32
Mar-13	57.4	27.1	12.8	7.6

Table 5-p Station : Usgaon

Month	RSPM	PM _{2.5}	NO ₂	SO ₂
	µ g/m ³	µ g/m ³	µ g/m ³	µ g/m ³
Apr-12	175.3	44.3	23.2	11.6
May-12	183.9	29.5	21.8	8.5
Jun-12	107.4	22.3	13.8	7.4
Jul-12	83	25.6	18.5	9.8
Aug-12	46.3	22.1	15.1	8.7
Sep-12	60.1	30.5	17.9	10.6
Oct-12	61.7	30.1	15.3	9
Nov-12	69.5	35.5	15.2	9.5
Dec-12	72.4	35.9	15.5	9.4
Jan-13	75.1	36.5	12.7	7.1
Feb-13	68.9	32.8	12.7	7.4
Mar-13	59.2	26.5	13	7.3

Annexure VI

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

Sr. No.	Name of case and no.	Advocate	Present status	Next date of hearing/Remarks
SUPREME COURT OF INDIA				
1	Ramchandra Waman Naik V/s State of Goa	Adv Chitale	Matter pertains to challenge to Judgment of the High Court of Bombay at Goa in PILWP/4/2010 i.e. challenge to the grant of approvals by the State and Central Government to the Pig Iron Plant of Sesa Goa at Navelim-Bicholim.	GSPCB has filed an affidavit in reply. Matter is now pending arguments on merits.
2	Goa Foundation V/s State of Goa (WP/435/2012)	Adv Chitale	Matter pertains to the findings and recommendations of the Shah Commission of Inquiry into illegal mining in the State of Goa.	Matter is yet to be listed before the Court.
NATIONAL GREEN TRIBUNAL				
3.	Village Panchayat of Navelim V/s GSPCB (Application no. 47/2013)	Adv. Madhukar	Matter pertains to pollution being caused in the village of Navelim due to operation of the Pig Iron Plant of Sesa Goa at Navelim-Bicholim. The Consent to Operate orders issued by the GSPCB to the unit have also been challenged.	GSPCB has filed a detailed affidavit in reply. Matter is now fixed for final arguments.
4	Mahadev Shetkari Sangathan Samitte and Satsish Navelkar	Adv Bhatnagar	Matter pertains to destruction of fields due to mining activity at Sigao .	GSPCB has filed an affidavit in reply. Matter is now fixed for final arguments.
5	Shankar Jog v/s State of Goa	Adv Chitale	Application has been filed seeking directions to the GCZMA and State of Goa to cancel all the permissions issued to mine units in light of the fact that the EC's have allegedly expired in view of the Judgement of the High Court of Bombay at Goa in Shankar Jog matter.	GSPCB has filed an affidavit in reply. Matter is awaiting decision of the Supreme Court of India in WP/435/2012.
6	Goa Foundation V/s Union of India and Ors.	Adv Bhavanis hankar Gadnis	Application has been filed seeking directions to the State and Union Governments to revoke all permissions to	GSPCB has filed an affidavit in reply. Matter is now pending arguments on merits.

			commercial projects including mining in view of the Western Ghats report submitted by Prof. Gadgill.	
HIGH COURT OF BOMBAY AT GOA				
7	(Suo motu WP/2/2007)	Adv Datta Lawande	Petition is regarding garbage waste disposal in the State of Goa particularly by the Municipal councils and coastal panchayats.	Matter pending for final judgement.
8	John Pereira v/s Curchorem Municipal Council (WP/123/1999)	Adv Joquim Godinho	Petition regarding dust pollution at Curchorem Town due to operation of the Curchorem railway yard/ loading and unloading of ore.	Board recommendations have been placed before the Court pending compliance by the railway authorities.
9	Colva Civic Consumer Forum v/s State of Goa (PILWP/15/2011)	Adv Joquim Godinho	Petition is regarding pollution of the Colva creek due to discharge of sewage by commercial establishments	Matter is pending submission of a report by the Government.
10	Sirigao Nagrik Samitee (PILWP/1/2008)	Adv Datta Lawande	Petition is regarding pollution at the village of Sirigao due to mining activity by 3 mining units in the vicinity.	Matter is pending on the orders Board.

ANNEXURE VII

Table 8: DETAILS OF APPLICATIONS RECEIVED UNDER RIGHT TO INFORMATION ACT 2005 BY GSPCB FOR THE PERIOD FROM APRIL 2012 TO MARCH 2013

Sr. No.	Name of Applicant	Application of address	Subject matter	application date	Date of GSPCB Reply	Court fee	Amount paid
1	Shri Narayan G. Gadekar	H.No.302, St. Braz, Nigal Amere, Pernem Goa.	Shri Narayan G. Gadekar	9/3/12 transferred to this board by the office of the excise inspection,pernem taluka vide letter no.Exc/Per/2011-2012/708 dt 26/8/12 and received on 2/4/12.	03-04-12	0	
2	Adv.Jessica Fernandes	H.No.28, Nuven-Gorvotte, Salcete goa.	compliance orders passed Hon'ble High Court	16/3/2012	12-04-12	10/-	98/-
3	Ms.Rakesh Mahobia	Paryavaran Urja Times, 205, Main Road, Samta Colony, Raipur (C.G.)	Rakesh Mahobia Daughter of B.R. Mahobia	12/3/2012 received by this office on 26/3/2012	17/4/2012	0	
4	Mr.Anthony D'souza	H.No.5-212, Umta Vaddo, Calangute Bardez Goa.	M/s.Sea Shore Hotel	26/3/2012	17/4/2012	10/-	
5	Shri.Rony Dias	H.No.2, Murida, Cuncolim, Salcete, Goa.	M/s.United Marine Products	04-09-2012	17/4/2012	10/-	
6	Shri.V.B.N. Raikar	Vice President (Operations), Vrundavan Shalby Hospitals Ltd., NH17, Bypass Karaswada, Mapusa Bardez Goa.	Mapusa Municipal Council	28/3/2012	19/4/2012		
7	Mr.Amrut alias Krishna D. Gaonkar	R/o H.No.30, Gaonkarwada, Bicholim Goa.	Shri.Justice M.B. Shah	04-12-2012	19/4/2012	10/-	6/-
8	Shri.Edgar D'souza	H.No.1020, Casablanca, Near Axle residency, Alto Porvorim, Bardez Goa.	Bio-degradable & non-biodegradable	13/4/2012	23/4/2012	10/-	
9	Shri.Oscar Martins	H.No.471, Adiband, Cuncolim, Salcete Goa.	M/s.United Marine Products	04-10-2012	24/4/2012	10/-	12/-
10	Shri.Ashley Delaney	Abreovaddo, Saligao, Bardez Goa.	Mobile towers	17/4/2012	24/4/2012	10/-	
11	M/S.Damodar Mangalji & Co.ltd	Damodar Niwas, M.G. Road, Panaji Goa.	Band Doncol	04-12-2012	24/4/2012	10/-	
12	Vrundavan Shalby Hospitals Ltd	NH 17A, by Pass Karaswada, Mapusa Bardez Goa.	Mapusa Municipal Council	26/3/2012	24/4/2012	10/-	

13	Shri.Nitin Salkar	Secretary, Murdawada Utkarsh Samiti, House No.210, Avalpal-Post Assonora, Bicholim Goa.	information on mines.	16/4/2012	24/4/2012		
14	Shri.Oscar Martins	H.No.471, Adiband, Cuncolim, Salcete Goa.	M/s.United Marine Products	04-09-2012	25/4/2012	10/-	62/-
15	Shri.Khemlo S. Sawant	Betul wada,Amona Goa.	Band Doncol	28/3/2012	26/4/2012	10/-	
16	Ms.Claudia Figueroa	H.No.31, Movati Bhat Deao, Quepem Goa.	complaint on Mr.Sanjay Sutar	20/4/2012	26/4/2012	10/-	
17	Ms.Sayadri Sinari	Kalam-Wada, Amona, Bicholim Goa.	Appointment of Board staff	17/4/2012	26/4/2012		224/-
18	Ms.Sayadri Sinari	Kalam-Wada, Amona, Bicholim Goa.	Appointment of Board staff	17/4/2012	26/4/2012		116/-
19	Shri.Pramod Kumar	180-V P O Rani Khera, Delhi 110081.	Bio Medical Waste (Management & Handling)	13/4/2012 received from CPCB and received by this board on 25/4/2012	26/04/12		
20	Ms.Sayadri Sinari	Kalam-Wada, Amona, Bicholim Goa.	Appointment of Board staff	17/4/2012	27/04/12	30/-	392/-
21	shri.Swapan Kumar Joardar	Mines Manger, Salgaocar Mining Industries Pvt. Ltd C Wing 1st Floor, Rizvi Tower, St Inez, Panaji Goa.	M/s.Mineira Nacional Limitada/Hardesh Ores Pvt.Ltd	04-12-2012	27/04/12		36/-
22	Mr. Emiliano Da Cruz	H.No.880/1, Vanxem, Loutolim, Salcete, Goa.	inspection report	16/4/2012	27/04/12	10/-	
	Shri.Ramesh Gauns	Pajwada-Bicholim Goa.	Pig iron plant of sesa goa. Transferred to DITC	26/4/2012	30/04/12		
24	Shri.Ramesh Gauns	Pajwada-Bicholim Goa.	Pig iron plant of sesa goa	26/04/2012	30/04/12	10/-	
25	Shri.Naresh Kumar	H.No.2425, Pratap Nagar, Near Electrical Sub-station Harvaalem.	Band Doncol Mine	24/04/2012	7-5-2012	10/-	238/-
26	Dr.Geetanjoy Sahu	Assistant Porfessor Centre for Scince, Technology & Society, School of Habitat Studies, Tata Institute of social Scinces (TISS), Deonar, V N Puravi Marg, Sion- Trombay Road, Mumbai-400088	Sudarsan Sahu	17/8/2012 received in this board on 17/03/2012	9-5-2012	10/-	
27	Mr.Claude alvares	G-8, St. Britto's Apts, Feira Alta, Mapusa, Goa.	show cause notices	05-02-2012	17/05/12	10/-	50/-
28	Mrs.Amrut @krishna D. Gaonkar	Comunidade of Bicholim. R/o. H.No.30, Gaonkarwada, Bicholim-Goa.	M/s.Sesa Mining Corporation Ltd	26/4/2012	21/05/12	10/-	22/-
29	Shri.Vishwanath				22/05/12		

	N Sawant						
30	Mr.Oscar Martins	H.No.471, Adiband, Cuncolim, Salcete Goa.	Log Book Details/Entries of all the Vehicoes of GSPCB	05-08-2012	22/05/12	10/-	4/-
31	Mr.Rony Dias	H.No.2, Murida, Cuncolim, Salcete,Goa.	Fish Meal	30/4/2012	22/05/12	10/-	280/-
32	Mrs.Maria Fernandes	H.No.6720, Orgao Loutolim, Salcete Goa.	M/s.Francisca Sweets	05-04-2012	22/05/12	10/-	58/-
33	Mr.Claude alvares	G-8, St. Britto's Apts, Feira Alta, Mapusa, Goa.	Mr.Claude alvares	26/04/2012	23/05/12	10/-	
34	Mr.Manuel C. Fernandes	H.No.7/1, Damedem Tivim, Bardez Goa.	M/s.Xavier Tooling Enterprises	05-11-2012	30/05/2012	10/-	
35	Ms.Claudia Figueredo	H.No.31, Movati Bhat Deao, Quepem Goa.	Mr.Sanjay Sutar	14/5/2012	30/05/2012	10/-	4/-
36	Shri.Devendra D. Mathkar	R.H.No.22, Ibrampur, Pernem Goa.	Reg-M/s. Sateri metals	17/11/2011 transferred by the Mamlatdar of Perne, Goa, received in this office on 02/05/2012.	06-01-2012	10/-	4/-
37	Adv.Narayan P. Sawant	F-5, Vasudev Arcade, Near Shivaji Maidan, Bicholim-Goa.	River Madhei.	30/04/2012 received on 03/05/2012.	06-01-2012	10/-	
38	Adv.Narayan P. Sawant	F-5, Vasudev Arcade, Near Shivaji Maidan, Bicholim-Goa.	M/s.V.M. Salgaonkar Sales International	30/04/2012 received on 03/05/2012.	06-01-2012	10/-	400/-
39	Adv.Ashok G. Naik	50, First Floor, Apna Bazar Bldg., Vasco da Gama-Goa.	M/s Alcon Cememt Company Pvt.ltd.	23/04/2012 received on 03/05/2012.	06-04-2012	10/-	
40	Mr.Sushant S. Volvoikar	Gongre Maina, Navalim, Bicholim Goa.	Sesa Industries Ltd	9/5/2012 received in this board on 14/5/2012.	06-04-2012		
41	Shri.Rony Dias	Murida, H.No.2, Cuncolim, Salcete Goa.	Environment Impact Assessment	05-04-2012	06-07-2012	10/-	
	Shri.Oldrin Pereira	H.No.629, Sautexette, Aldona, Bardez-Goa.	transferred to SEIAA	05-09-2012	06-07-2012		
43	Shri.Ramesh S. Gauns	Pajwada-Bicholim Goa.	High Powered Co-Ordination with respect to the study on Sponge Iron production industry	18/5/2012 received in the Board on 21/5/2012	06-08-2012	10/-	12/-
	Shri.Arun Prabhakar Desai	Ambar Apts., No.4/5, Vishant RD., P.O.Box.416, Margao Goa	transferred to MOEF	06-06-2012	06-12-2012		
	Shri.Ramesh S. Gauns	Pajwada-Bicholim Goa.	information on mines. Transferred to MOEF	05/06/2012 received in this Board on 06/06/2012	06-12-2012	10/-	
46	Shri.Ashok J. Patil	Ex. Sarpanch, Resident, Dabal-Goa.	M/s.Sociadade Timblo Irmaos limitada	22/5/2012 received in this Board on 24/5/2012	13/6/2012	10/-	

47	Shri.Naresh Amonkar	House No.2425, Opp.Electrical sub Station Pratap Nagar-?harvalem, Sanquelim-Goa	1. Khemlo Sawant, 2.Ramesh gawas, 3.Vijay shetye, 4.Ramakant shetye.	22/5/2012.	13/6/2012	10/-	
48	Ms.Sahyadri S. Sinari	Kalam Wada Amona, Bicholim Goa.	Sahyadri S. Sinari	15/05/2012.	13/6/2012	10/-	1248/-
49	Shri.Parshuram M. Gouli	H.No.88, Panzorcone, Cuncolim, Salcete Goa.	Septic Tank and Soak pit	8/6/2012.	14/6/2012	10/-	
50	Ms.Kim Miranda	64/b, Gonoto Naik Orlim, Salcete Goa.	sewage treatment plant in survey #19/4 orli	05/06/2012 received in this Board on 06/06/2012.	15/6/2012	10/-	
51	Shri.Devendra D. Mathkar	H.No.22, Ibrampur, Pernem Goa.	M/s.Sateri Metals owned by Shri.Gajanan Zarapka	Board bearing No.8/33/09-PCB/Vol.1472 dt 01/06/2012. dt 15/06/2012.	21/6/2012		
52	Mr.M.L. Ahuja	"Diksha" Caculo Housing Colony, Opp. Youth Hostel, Miramar Goa.	Hotel Marriot	01/06/2012.	21/6/2012	10/-	125/-
	Shri.Prakash Sawalaram Chari	Anad Building, Taleigao Goa.	information of M/s Sesa Goa complaint	14/06/2012	21/6/2012		
54	Shri.Sandip Dessai	H.No.282, Sancorda, Taluka Sanguem Goa.	M/s.Elray Minerals & Company	22/5/20120 received in this Board on 23/05/2012.	21/6/2012	10/-	60/-
55	Mr.Abhay Keny	Anandsadan, Rukol, Dicarpale, P.O. Navelim-Goa.	Mr.Shailesh Chary resident of Goenchchembhat and Mr.Ashok Angie Physician Surgeon of velim Goa had filed a complaint on Roto Technic	07/06/2012.	22/6/2012	10/-	
56	Dr.Jorson Fernandes	Cuncolim Citizens' Action Front Villa Shanti Niketan, Mokim, Cuncolim, Salcete goa.	Fish meal industry	18/06/2012.	22/6/2012	10/-	
57	Mr.Ramesh S. Gauns	Pajwada-Bicholim Goa.	M/s.Sesa Goa ltd., Ben	22/5/2012.	22/6/2012	10/-	
58	Judith Almeida	257/1, Ward 3, Bagdem Colva, Salcete Goa	(m/s.akar creations pvt ltd)		26/6/2012		
59	Mr.Ramchandra Martins	H/o. H.No.365, Aivao, Dona Paula, Panaji Goa.	M/s.Avinash Restaurant, belonging to shri.Chudu Laximan Shirodkar alias	19/6/2012.	27/6/2012	10/-	
60	Shri.Tulsidas S. Velip	Velipwada, Caurem, Quepem Goa.	Devapan Dongor Iron & anganese Ore Mine, Tembechem Dongor Iron and	26/6/2012.	07-02-2012	10/-	

			Manganeses Ore Mine, Joleracho Dongor Iron Ore Mine, Borchí Modi iron Ore Mine & Batagal Iron Ore Mine.				
61	Mr.Swapan Kumar Joardar	Mines Manger, Mineira Nacional Limitada, Salgaocar Chambers, Luis Miranda Road, Margao Goa.	M/s.Mineria Nacional Limitada	25/06/2012.	07-02-2012	10/-	36/-
62	Shri.Abhijit Prabhudesai	H.No.479, Covatem, Curtorim, Salctet Goa.	Devapan Dongor Iron & anganese Ore Mine, Tembechem Dongor Iron and Manganeses Ore Mine, Joleracho Dongor Iron Ore Mine, Borchí Modi iron Ore Mine & Batagal Iron Ore Mine.	26/6/2012.	07-03-2012	10/-	
63	Shri.Nilesh Gaonkar	H.No.45, Gaonkarwada, Caurem, Quepem Goa.	Devapan Dongor Iron & anganese Ore Mine, Tembechem Dongor Iron and Manganeses Ore Mine, Joleracho Dongor Iron Ore Mine, Borchí Modi iron Ore Mine & Batagal Iron Ore Mine.	26/6/2012.	07-03-2012	10/-	
64	Shri.Suvarn R. Bandekar	P.O. Box No.11, Vasco da Gama, Goa.	Futardo Rest House, J.B.Rest House, Quinsan, Futardo, Sundance, Mr.Rui Aguiar, Mr.L.G.Furtado, Mr.Joao Inacio Furtado, Mr.Bernabas Furtado, Mr.Lindo Furtado, Dr.Glaffy Furtado.	16/5/2012 received on 17/5/2012.	07-03-2012	10/-	
65	Mr.M.R. Janardhanan	C/o Balaji mines & minerals Pvt.ltd, Express Building Annexe III Floor, No.1. Queens Road, Bangalore-560001.	M/s.Hardesh	28/6/2012.	07-04-2012	10/-	248/-
66	Mr.Avelin Rodrigues	(Ward Member of Village Panchayat Dhargal), Chonwada, Dhargalim, Pernem-	M/s.Intech Pharma Pvt.ltd	26/6/2012.	07-04-2012	10/-	

		Goa.					
67	Shri.Gaurish G. Kambli	H.No.196-C/4, Peddem, Mapusa, Bardez Goa.	Dr.Digambar	22/6/2012.	07-05-2012	10/-	134/-
68	S. Gururaj	C/o Balaji mines & minerals pvt ltd Express Building Annexe III Floor No.1. Queens Road,Bangalore-560001. Ph:9886035382.	Copies of all the correspondence pertaining to plant and tailing dams, consents granted to M/s. GreaterFerromat (Division of Sociedade De Fomento Industries Pvt Ltd. adjacent to TC No.62 of 1951 of Mineira Nacional Limitada.		07-05-2012	10/-	
69	Shri. S. Gururaj	C/o Balaji mines & minerals pvt ltd Express Building Annexe III Floor No.1. Queens Road,Bangalore-560001.	Environment Impact Assessment	06-06-2012	07-11-2012	10/-	
70	Shri.Arun Prabhakar Desai	Ambar Apts., No.4/5, Vishant RD., P.O.Box.416, Margao Goa	RTI (File post)		07-04-2012		
71	shri.Swapan Kumar Joardar	Mines Manger, Mineira Nacional Limitada, Salgaocar Chambers, Luis Miranda Road,Margao Goa.	GSPCB to the Department of Science, Technology & Environment	30/6/2012 received on 09/7/2012.	07-12-2012	10/-	
72	The mines Manager, M/S.Mineira Nacional Limitada,	Salgaocar Chambers, Luis Miranda Road, Margao Goa.	Complaints,proceeding sheets,file notings,show cause notices, replies recevied,application,etc	26/6/2012.	13/07/2012	10/-	4146/-
73	Shri.Prakash Sawalaram Chari	Anand Building, Taleigao Goa	Neeri	14/6/2012	16/07/2012	10/-	
74	Shri.Pradyuman Sewar	C 62 B, Supermart I, DLF Phase 4, Gurgaon, Haryana, Pin-122002.	M/s.Putzmeister Concrete Machines Pvt.ltd	06/7/2012.	18/07/2012	10/-	
75	Mr.S. Gururaj	C/o Balaji mines & minerals pvt ltd Express Building Annexe III Floor No.1. Queens Road, Bangalore-560001.	M/s.Greater Ferromet	5/07/2012.	18/07/2012	10/-	188/-
76	Mrs.Jaya Kanoi	180,Block 'G', 3rd floor, New Alipore, Kolkata, 700053	Industries utilizing Electrostatic Precipitators (ESP)	19/6/2012 received on 26/6/2012	18/07/2012	10/-	

77	Mr.Austin D'souza M/S.Sesa Goa Ltd.,	Sesa Ghor, 20, EDC Complex, Patto, Panaji Goa.	Shri.Khemblo Sawant	07-11-2012	20/07/2012	10/-	12/-
78	Shri.Keshav G. Naik	Madkai, Ladewada, P.O. Mardol-403404, Ponda Goa	Shri.Keshav Naik	22/6/2012	20/07/2012	10/-	6/-
79	Shri.Rakesh Kumar	Koeriwari, Ramsagar Road, Gaya, 823001,Bihar	guidelines on environmentally sound management of e-waste	22/6/2012 received from CPCB and received by this Board on 10/7/2012.	24/07/2012		
80	Mr.Joao paulo monteiro,	R/o.H.No.40/1, Acsonaward, Utorda, Salcete Goa.	M/s.K.H.R. Hospitality India ltd	19/7/2012	24/07/2012	10/-	
82	Shri.Prakash Sawalaram Chari	Anand Bldg., Talegao-403002	action taken report	21/6/2012 received in this office on 25/6/2012	24/07/2012		
83	Shri.Rajdeep Benipal,	1552,Beantpura,ST No.7,NKH, Wali Gali,Near Samrala Chowk,Ludhiana.	Shri.Pramod Kumar	23/4/2012 received in this board on 7/5/2012	31/07/2012		
84	Mr.Shri.Pramod Kumar,	180 V.P. O., Rani Khera, Delhi-110081	Bio Medical Waste Authorizations	23/4/2012 received in this board on 7/5/2012	31/07/2012		
85	Mr.H. Saldanha,	167,Nagalli Hills Colony, Dona Paula,Goa.	M/s.Hotel Goa Highridge	16/7/2012	08-01-2012	10/-	
86	Shri.Rony Dias	H.No.2, Murida,Cuncolim,Salcet e-Goa.	M/s.United Marine Products	20/7/2012	08-03-2012	10/-	36/-
87	Shri.S Gururaj,	C/o Balaji mines & minerals Pvt.ltd, Express Building Annexe III Floor, No.1. Queens Road, Bangalore-560001.	Environmental Clearances	dt.6/7/2012. dt11/7/2012.	08-03-2012		
88	Mr.Suresh A. Dhumaskar	H.no.187,Near St.Cross,Bepquegal,Cu rchorem,Goa	M/s.Shaikh Kadar Sheik Usman	27/7/2012	08-06-2012	10/-	296/-
89	J.L. Baptista	105/D/3, Arlem, Salcete, Goa-403720	Mr.Francisco Carvalho (file)	08-09-2012	08-10-2012	10/-	
90	Dr.Navneet Dhailwal,	M.S. Office, Nehru Hospial, PCIMER, Sector 12, Chandigarh-india.	notices/circulars for violations under the Bio-Medical Waste (Management and Handling)	18/7/2012 received on 27/7/2012	13/08/2012		
91	Ms.Sahyadri S. Sinari,	Kalamwada, Amona, Bicholim Goa.	Engineering Assistant	13/7/2012	13/08/2012		xerox rs.294 8/-
92	Shri.Aires Rodrigues,	C/G-2, Shopping Complex, Ribandar Retreat, Ribandar Goa.	Mr.Joseph Doris Coutinho	08-07-2012	14/08/2012	10/-	

93	Shri.Sainath D. Naik Chawdikar	H.No.158, Ambika Nagar-Bhamai Pale Goa.	M/s.Pandurang Timblo & Sons Co.	31/7/2012	14/08/2012	10/-	70/-
94	Mr.Joaquim Rosario esa,	H.No.908,Dando, Maddant, Cortalim Goa.	M/s.Desa Engineering Works	08-08-2012	14/08/2012	10/-	108/-
95	Mr.Joaquim Rosario esa,	H.No.908,Dando, Maddant, Cortalim Goa.	M/s.Desa Engineering Works	08-08-2012	14/08/2012	10/-	
96	Mr.Godifrey Lobo,	H.No.190,ando,Candolim,Bardez Goa.	Kitchen exhaust system for hotels/restaurant	31/7/2012	14/08/2012	10/-	
97	Dr.Geetanjay Sahu,	Assisstant Professor & Chairperson, Centre for science, Technology & Society, School of Habitat Studies, Tata Institute of social sciences (TISS), Deonar, V.N. Puravi Marg, Sion Trombay Road, Mumbai.	information on Chairman of the Board	07-09-2012	14/8/2012	0	
98	Shri.Sameer Sharma,	Guru Radha Krishna SmarakBhawan, 7704, Ghanta Chowk,Delhi	notification of E-Waste (Management and Handling)	4/7/2012 received from ministry of environment & forests and received by this board on 17/7/2012	14/08/2012		
99	Shri.Rakesh Kumar	Koeriwari,Ramsagar Road,Gaya, 823001, Bihar.	M/s.E-Parisaraa	4/7/2012 received from ministry of environment & forests and received by this board on 17/7/2012	14/08/2012		
100	Mr.Geetajoy Sahu,	Centre for science,Technology & society Scool of Habitat Studies, Tata institute of Social Sciences (TISS),Deonar,V.N. Puravi Marg,Sion Trombay Road,Mumbai-400088	information on Board functioning	9/7/2012 received in this board on 17/7/2012	17/08/2012		
101	Mr.Gopalakrishna V. Gaonkar,	Salgaocar Chambers, P.O. Box.114, Margao Goa.	mines. Transferred to MOEF	16-08-2012	24-08-2012	10	0
102	Mr.Joao Paulo Monteiro,	R/o.H.No.40/1,Acsonaward,Utorda,Salcete Goa	M/s.K.H.R. Hospitality India ltd	19/7/2012	27/08/2012	10/-	
103	Mr.Francis Xavier Carvalho,	R/o H.No.35/6,Borkottegall, Ugem,Sanguem Goa.	inspection report	08-02-2012	29/08/2012	10/-	252/-
104	Shri.Vaikunth V. Parab Gaonkar,	Gaonkar wada,Bicholim Goa.	M/s.Dempo Mining CorporationPvt.ltd	08-02-2012	29/08/2012		
105	Mr.Nilu Ganpat Naik,	H.No.90,Bhatulem,Panaji Goa.	Ministry of environment and forests	17/8/2012 received on 22/8/2012	29/08/2012		32/-

106	Shri. Govind D. Jawdekar,	C/o Siya Vachanalaya, Kadchal Surla, Sanquelim Goa.	information of environmental clearance	24-08-2012	06-09-2012	BPL	0
107	Mr. Leslie Furtado	Noemia Apartments 2nd Floor, Madel pequeno, Opp. Kadamba Bustand Next to red roof hotel Margao.	mine units	29/8/2012 received in this board on 30/8/2012	09-04-2012	10	
109	Mrs. Jaya Kanoi,	180, Block 'G', 3rd floor, New Alipore, Kolkata 400053.	M/s. Shraddha Ispat Pvt. Ltd	14/8/2012 received on 31/8/2012	09-05-2012	10/-	
110	Shri. Govind D. Jawdekar,	C/o Siya Vachanalaya, Kadchal Surla, Sanquelim Goa.	M/s. Dempo Mining Co. Pvt. Ltd	24/8/2012	09-06-2012		
111	Adv. Ashwini Khandolkar,	c/o Adv. Yogesh Naik, Second Floor, Edcon galleria, Near Hotel Delmon, Panaji-Goa.	The Dental Expert	31/8/2012	09-06-2012		
112	Shri. Gajanan M. Natekar,	Kadchal Surla, Sanquelim Goa.	M/s. V.S. Dempo & Co. Ltd	24/8/2012	09-06-2012	10/-	
113	Mr. J.L. Baptista,	105/D/3, Arlem, Salcete, Goa-403720	complaints filed by Mr. Francis Xavier Carvalho	24/8/2012	09-06-2012		
114	M/S. XL Stone Crusher	St. Xavier, Raia Salctte, Goa-403720.	complaints filed by Mr. Francis Xavier Carvalho	24/8/2012	09-06-2012	10/-	
115	Mr. Emiliano Da Cruz,	House No. 880/1, Vanxem-Loutulim, Salcete Goa.	information on piggeries	7/8/2012 transferred to this board office by the Directorate of animal husbandary & veterinary services vide letter dt 21/8/2012	09-06-2012	0	
116	Shri. S Gururaj,	No. 1/F/2 5th floor, Models Mystique, Near Mahalxmi Petrol Pump, Caranzalem, Panaji Goa.	M/s. Zarapkar & Parkar	24/8/2012	09-06-2012	10/-	
117	Mr. Vinit Tari,	Flat No. F-3, Peace Heaven, Bldg. 'B' Near Corporation Bank Socorro Branch, Alto Porvorim Bardez Goa-403521	complaints filed by Mr. Khemblo Sawant	17/8/2012	09-07-2012	10/-	
118	Mr. Terence Jorge,	c/o. Gautam Bhende shop No. G3, Ground Floor, Shankar Parvati Building, 18th June Road, Panaji Goa-403001	Selaulim water reservoir	24/8/2012	09-07-2012	10/-	25/-
119	Shri. Ramesh Gauns,	Pajwada-Bicholim Goa.	m/s. Sesa Goa Ltd	13/8/2012	09-07-2012	10/-	
120	Shri. Naresh Amonkar,	H.No. 2425, Opp. Electrical Sub-Station, Pratap Nagar-Harvalem, Sanquelim	M/s. R.S. Shetye	23/8/2012	09-07-2012	10/-	202/-

		Goa.					
121	Shri.Naresh Amonkar,	H.No.2425, Opp. Electrical Sub-Station,Pratap Nagar-Harvalem,Sanquelim Goa.	Geetabala M.N. Parulekar	23/8/2012	09-07-2012	10/-	
122	shri.Khemlo S. Sawant	Betul wada,Amona Goa.	Consent issued to mine units	08-08-2012	09-07-2012	10/-	
123	Mr.Nilu Ganpat Naik,	H.No.90,Bhatulem,Panaji Goa.	Environmental Clearances is subject to obtaining clearance under the wildlife protection act,72 from the national board of wild life.	17/8/2012 received on 22/8/2012	09-10-2012	10/-	32/-
124	Shri.Abhijit Prabhudessai,	H.No.479, Covatem,Curtorim, Salctet Goa.	Ajit kadnekar mine unit	17/8/2012	09-10-2012	10/-	
125	Shri.Pobre Vaz,	H.No.789, Zamboll, Cortalim Goa.	M/s.Desa Engineering Works	09-03-2012	09-10-2012	10/-	
127	Shri.Rony Dias	H.No.2,Murida,Cuncolim,Salcete Goa.	M/s.United Marine Products	09-04-2012	09-12-2012	10/-	12/-
128	Mr.Vijesh P. Naik	H.No.219,Near Mahalaxmi Temple,Nawat,Bandora ,Ponda Goa.	Mr.Vijesh P. Naik	21/8/2012 transferred to this board office by the goa industrial development corporation vide letter dt 27/8/2012	09-12-2012		
129	Dr.Navneet Dhaliwal,	M.S. Office, Nehru Hospiat, PCIMER, Sector 12, Chandigarh	notices/circulars for violations under the Bio-Medical Waste (Management and Handling)	08-03-2012	09-12-2012		
130	Shri.Shirish Dalvi,	C4,Raj Heritage,Shantinagar,Ponda Goa.	Raj Heritage Cooperative Housing Society	31/8/2012	09-12-2012	10/-	6/-
131	Shri.Cruz Cardozo,	H.No.320/B, Tibet,Cavelossim,Salcete Goa.	Hotel Leela,Mobor,Holiday Inn, the old Anchor, Donasylvia,Radisson blue and haathi mahal situated at cavelossim.	17/8/2012	09-12-2012	10/-	
132	Shri.S Gururaj,	C/o Balaji mines & minerals Pvt.ltd, Express Building Annexe III Floor, No.1. Queens Road, Bangalore-560001.	M/s.Zarapkar & Parkar	21/8/2012	13/09/2012	10/-	
133	Mr.Arun Prabhakar	"Shalini Vila", Near Power house, Aquem,	action taken report	09-11-2012	09-12-2012		

	Desai,	Margao Goa.					
134	Mr.Arun Prabhakar Desai,	Ambar Apts., No.4/5, Vishant RD., P.O.Box.416, Margao Goa	action taken report	08-04-2012	09-12-2012		
135	Shri.Jim Pereira,	H.No.40,Acsona,Utorda ,Majorda,Salcete Goa.	C' Category hotel	18/8/2012	13/09/2012	10/-	
136	Mr.H Saldanha,	167, Nagalli Hills Colony,Dona Paula,Goa.	M/s.Bonus Consultants	09-09-2012	18/09/2012	10/-	
137	Sh. Arun Prabhakar desai,	Ambar Apts., No.4/5, Vishant RD., P.O.Box.416, Margao Goa	action taken report	08-04-2012	24/9/2012		
138	Shri.Glenn da costa	Confrarias Building, Panaji-Goa	action taken report	17/9/2012	24/9/2012		
139	Mr.Jayent Kavlekar,	Ambar Apts., No.4/5, Vishant RD., P.O.Box.416, Margao Goa	M/s.Sesa Goa Ltd	23/8/12	25/9/2012	10/-	
140	Shri.Vijay M. Gandhi,	Human Rights Association for Protection, F/14, world of mother, Jai Ganesh Vision Akurdi, Pune-411035, Maharashtra state.	Shri.Vijay M. Gandhi,	14/9/2012	24/9/2012	10/-	
141	Mr.Shanker Raghunath Jog,	Margawadi, Sancordem, Via Tiska, Goa.	M/s.M.S. Talaulikar & sons pvt.ltd.,	09-07-2012	25/09/2012	10/-	
143	Shri.Jatin Sharma,	R/o F-150,DDA Qtrs, Sultanpuri, New Delhi	municipal solid waste violations	14/09/2012 and received bythis board on 24/09/2012	26/09/2012	0	0
144	Meenakshi financial consultants Pvt.ltd,	Satwik Dwelling Pvt.ltd, Ratan Housing Development ltd, 87/14c, Palcutta Orlim, Salcete Goa.	Meenakshi financial consultants Pvt.ltd,	21/09/2012	27/09/2012	10/-	
145	Shri.Gabriel Fernandes,	H.No.259/2 Mullem, Paroda, P.O. Quepem, Salcete Goa.	M/S.Jolly Metals	17/09/2012	27/09/2012	10/-	70/-
146	Shri.Oscar Martins,	H.No.471, Adiband, Cuncolim, Salcete Goa.	M/s.United Marine Products	12/09/2012 & 14/09/2012	27/09/2012	10/-	432/-
147	Shri.Leslie Furtado,	Noemia Apartments 2nd Floor,Madel pequeno,Opp.Kadamba Bustand, Next to red roof hotel, Margao Goa.	M/s.D.B. Bandododkar & sons Pvt.ltd	29/8/2012	27/09/2012	10/-	352/-
149	Isshaan George,	C/o Sesa Goa Ltd., Sesa Ghor, 20 EDC Complex, Patto, Panaji Goa.	Shri.Rohington F. Nariman opinion	24/09/2012.	01-10-2012	10/-	10
150	Mr.Reginaldo D'souza, Seby D'Melloand others,	Bela Vista, Sangolda, Bardez Goa.	Health Officer, primary health centre, caandolim	26/09/2012.		10/-	

151	Mr.Emiliano Da Cruz,	House No.880/1, Vanxem-Loutulim, Salcete Goa.	The piggery and dairy farms	09-10-2012	10-01-2012	10/-	
152	Shri.Dilip B. Gaonkar,	Madlawada, Sirigao, Assonora, Goa.	Shri.Dilip B. Gaonkar,	17/09/2012	10-01-2012	10/-	24/-
153	Mr.Mahadev R. Naik,	Parampai, Ponda Goa.	Mahadev R. Naik,	09-07-2012	10-03-2012	10/-	215/-
154	Mr.Glenn da costa,	Confrarias Building, Panaji-Goa	information on mine units	29/08/2012 received in this board on 07/09/2012	10-04-2012	10/-	
155	S.K. Joardar,	Mineira Nacional Limitada. Salgaocar Chamber, Margao	M/s.Hasdubores Pvt.ltd	10-04-2012	10-04-2012		
156	Shri.Madhu Yeshwant Naik Gaonkar	Tamsuli, khandola, P.O. Marcela Goa.	Mrs.Maria Carmo Fatima Vaz E simoes	26/09/2012.	10-08-2012	10/-	
157	Shri.Sylvester D'souza	Saunta vaddo, Calangute, Bardez Goa.	Mrs.Nalini Da Rosa	09-05-2012	10-08-2012	10/-	40/-
158	Shri.Jerry Figueredo,	H.No.31, Movathi Bhatt, Quepem Goa.	M/s.Vijay Industries	28/9/2012	10-08-2012	10/-	
159	Stephania Frois,	H.No.541, Malim, Britona-Bardez Goa.	Villa De Penha	18/09/2012	10-08-2012	10/-	
160	Shri.Silvester vaz,	H.No.164, Adao vada, Majorda, Salcete Goa.	Hotel Allila Diva	26/09/2012.	10-08-2012	10/-	32/-
161	Arun Prabhakar Desai,	Ambar Apts., Shop No. 4/5, Vishant Rd., P.O. Box. 416, Margao Goa.	contrary to the claim that it is agricultural land	4/10/2012.	10-09-2012		
162	Shri.Pobre Vaz,	H.No.789, Zamboll, Cortalim Goa.	M/s.Desa Engineering Works	10/9/2012.	10-10-2012	10/-	
163	Sergio R. Furtado,	E-340,Fontainhas, Panaji-Goa.	Sergio R. Furtado,	7/10/2012.	10-11-2012	10/-	24/-
164	Mr.Manuel C. Fernandes	H.No.7/1, Damedem Tevein, Bardez Goa.	Mr.Xabem Gowel	28/9/2012.	10-11-2012	10/-	100/-
165	Claudia Figueredo,	Movathi Bhatt Deao, Quepem Goa.	Specify to get the NOC	28/09/2012.	10-11-2012	10/-	
166	Mr.Shanty Fortes,	H.No.248, Chandonaik, Orlim, Salcete - Goa.	inspection report and photographs	08/10/2012.	16/10/2012	10/-	50/-
167	Mr.Edwin Mascarenhas,	58/B, Near Chicalim Park, Chicalim Goa.	Public Hearing conducted at Vasco Municipal Council Hall	17/09/2012.	17/10/2012	10/-	58/-
168	Mr.Terence Jorge,	H.No.780, Emmanuel,Near Bank of Baroda,Atafondem,P.O. Moira,Bardez Goa.	Reports of inspection of the sesa goa pig iron plant in amona.	3/10/2012.	17/10/2012	10/-	36/-
169	Shri.Vivek A. Naik,	Temwada Cansarvornem, Pernem Goa.	Mr.Eknath Kerkar	03/10/2012.	17/10/2012	10/-	6/-
170	Mr.Emiliano Da Cruz,	r/o H.No.880/1 Vanxem-Loutolim, Salcete Goa.	Site-Inspection Report	27/9/2012.	17/10/2012		6/-
171	Abhir Hede	H.No.426/2, Duptolem Vazem Shiroda-Goa.	Mine of sesa mining corporation ltd or erstwhile dempo mining	17/10/2012.		10/-	14/-

			corporation.				
172	Mr.Glenn da costa,	Confrarias Building, Panaji-Goa	R.T.I. Inquiry	29/08/2012	19/10/2012		
173	Shri.Madhu Yeshwant Naik Gaonkar	Tamsuli, khandola, P.O. Marcela Goa.	M/s.Goa Ship Builder	10-08-2012	19/10/2012	10/-	
174	Adv.B.P. Natekar,	C/o Adv. S.N. Joshi, T-13, Jairam Complex, Neugi Nagar, Panaji Goa.	information on mining units bearing T.C. No 17/60, 9/Fe/78 & 41/53	17/10 transferred by MOEF	16-11-2012	0	638
175	Chaitra K	Project Coordinator, Eco Green Solution (P) Ltd., First Floor, Swastik Complex, Sheshadripuram, Bangalore-560020	Pyrolysis Processes	28/9/2012.	22/10/2012	10	0
176	Jerry Figueredo,	H.No.31, Movathi-Bhatt, Quepem-Goa	Vijay Industries	22/10/2012.	22/10/2012	10/-	8/-
177	The Central Public Information officer,	GSPCB, Dempo Tower, 1st floor, Patto Plaza, Panaji Goa.	Shri.Arun Prabhakar Desai, (file)	4/10/2012.	22/10/2012		
178	Mr. Dexter Savio De Souza	1/130, Gauravaddo Calangute, Bardez Goa.	Dexter Savio De Souza	12/10/2012.	25/10/2012	10/-	
179	Mr.Bharat P. Kamat	G-2, Helena Apartments, Swatantrya Path, Vasco da gama.	Inspection report	25/09/2012 received in this board on 28/09/2012.	26/10/2012	10/-	
180	Shri.Nilu Ganapat Naik,	H.No.90, Bhatulem, Panaji Goa.	National Board of Wildlife report.	08/10/2012 received on 12/10/2012.	29/10/2012	0	
	Mrs. Joan Mascarenhas E D'souza,	H.No.315/4, Tropa Vaddo, Sodiem, Zsilim, Bardez Goa.	action taken on Tropa Church	17-10-2012	29/10/2012	10/-	
182	Cruzinho M. Barreto,	H.No.332, Behind Desterro Church, Vasco da gama.	Sada Garbage Treatment Plant	08/10/2012.	31/10/2012	10/-	
183	Shri. P.P. Tuteja,	Secretary General, All India Plastic Industries Association, 203, Hansa Towner,25, Central Market, Ashok Vihar Phase-I, Delhi 110052.	compliance regarding municipal solid wastes	09/10/2012 and received by this board on 15/10/2012	31/10/2012	0	0
184	Shri.Silvester vaz,	H.No.164, Adao vada, Majorda, Salcete Goa.	M/s.Sea Bird Resort Pvt.ltd	17/10/2012.	11-05-2012	10/-	20/-
185	Mr.H Saldanha,	167 Nagali Hills Colony, Dona Paula Goa.	Hotel Goa Highridge	10/10/2012.	11-05-2012	10/-	14/-
186	Mrs.Jaya Kanoi,	180, Block 'G',3rd floor, New Alipore, Kolkata 400053.	Thermal Power Plant	25/9/2012.	11-06-2012	10/-	
187	The Goa MRF Employees 'Union,	Rohidas H. Naik, "Saidham" Dhavalimol, P.O. Keulem, Ponda	M/s.Ltd., Tisca,	23/10/2012.	11-06-2012	10/-	

		Goa.					
188	Mr.Terence Jorge,	c/o. Vigilia De Sa, H.No.780, Emmanuel, Near Bank of Baroda Atafondem, P.O. Moira, Bardez Goa.	river sal	03/10/2012.	11-06-2012		22/-
189	Mr.Nandu asrani,	S/o Purushottam asrani, R/o 14 September Cross Road, APT SF 2, Bloomsbury Apts, Frazer Town, Bangalore.	M/s.Kay Jay Construction Co.Pvt.Ltd	15/10/2012.	11-06-2012	10/-	
190	Riva Vaz Dalgado & Others,	H.No.914, Beh.Damian de Goa, Porvorim Goa.	Shri.Eknath Sawant (file)	25/10/2012.	11-07-2012	10/-	4/-
191	Abhijit Prabhudessi,	H.No.479, Covatem, Curtorim, Salctet Goa.	Shri.Prashant Velip (file)	10/9/2012.	11-07-2012		1510/-
192	Tony wade,	H.No.1555/5, 2 Flushing meadows, pequeno chivar, Vagator, Anjuna, BardezGoa.	The Anchorage	12/10/2012.	11-07-2012	10/-	
194	The Asstt. Director of Transport,	Government of Goa, Vasco Goa.	Mr.Savio J.F. Correia	19/10/2012.	11-07-2012		
195	Shri. Sylvester D'souza,	Member Ribandar Chimbhel Rakhonn somiti, H.No.E-9, Manaswado, Ribandar Goa.	Shri. Sylvester D'souza,	08/10/2012 transferred to this board by town & country planning department vide letter received on 09/10/2012	11-08-2012		
196	Shri. Wenesslus Fransic D'Souza,	H.No.23/9, Ansabhatt Mapusa Goa.	(a)Mr.Joseph S Roza, M/s.Sea view cottages. (b)Mrs.Nalini Da Rosa M/s.Palm Glove cottages. (c, M/s.Villa Sol Beach resort. (d)M/s.Nalini Da Rosa C/o Palm Glove cottages.	11-05-2012	11-08-2012	10/-	22/-
197	Payal baadkar,	Scientific Assistant, GSPCB (file)	The Hon'ble High Court in P.I.L. writ petition no.WP/707/2012.	29/10/2012.	14/11/2012		370/-
198	Shabna Azma Nadaf,	Scientific Assistant, GSPCB (file)	The Hon'ble High Court in P.I.L. writ petition no.WP/707/2012.	29/10/2012.	14/11/2012.		370/-

199	Adv.B.P. Natekar,	C/o Adv,S.N. Joshi, T-13, Jairam Complex, Neugi Nagar, Panaji Goa.	information mines	1) 17/10/2012. 2) 16/10/2012 transferred to this board by ministry of environment & forests, Govt of India vide letter dt 30/10/2012.	16/11/2012		638/-
200	Shri.Subodh Talaulikar,	B F-2 Indira Apartments, Comba, Margao Goa.	indira Co Operative Housing society Comba	31/10/2012.	16/11/2012	10/-	12/-
201	Minguel G. Pereira,	Chowgule & Company Pvt.ltd., Mining Division, Khandepar, Ponda Goa.	GSPCB in case of our Sirigao Iron Ore Mine T.C. Nos. 5/1949 and 13/1949, vide letter No. 5/2563/04-PCB/8190 dt.23/02/2012. (file)	23/2/12.	22/08/12.		
202	Mrs.Avina Barreto Pereira,	Scientific Assistant, GSPCB (file)	The Hon'ble High Court in P.I.L. writ petition no.WP/707/2012.	02/11/2012.	20/11/2012.		22/-
203	Mr.Abel Colman Pinto,	H.No.255, Aradi Parra, Bardez Goa.	Smt .Nilam V. Lotlikar	30/10/2012.	20/11/2012	10/-	
204	Shri. Subodh Talaulikar,	B F-2 Indira Apartments, Comba, Margao Goa.	indira Co Operative Housing society Comba	31/10/2012.	16/11/2012	10/-	
205	Shri. Rajendra Digambar Gaitonde,	Opp, Sukhtankar Plaza, Dattawadi, Sanquelim Goa.	jetties, beneficiation plants/screening plants	18/10/2012.	23/11/2012	10/-	42/-
206	Mr. Saikh Mohammad Akbar,	Flat No. F-6, Daffodils Hsg. Co-op. Society, Indona, Davorlim, Salcete Goa.	Secretary, V.P. of Davorlim	5/11/2012.	23/11/2012	10/-	
207	Vinod Arlekar	The Asstt. Director of Transport, Vasco Goa.	Vinod Arlekar	20/11/2012.	23/11/2012		
208	The Goa MRF Employees 'Union,	Rohidas H. Naik, "Saidham" Dhavalimol, P.O. Keulem, Ponda Goa.	online monitorinf of MRF Ltd	15/11/2012.	27/11/2012	10/-	
209	Shri.Leonard F. Rodrigues,	H.No.20/8, Olaulim, Pomburpa, P.O. Carona Bardez Goa.	M/s. Club Cubana	14/11/2012.	27/11/2012	10/-	
210	Mrs. Joan Mascarenhas E D'souza,	H.No.302/4, Tropa Vaddo, Sodiem, Siolim Bardez Goa.	Fabrica De Igreja de Tropa	16/10/2012 received in this board on 15/11/2012.	27/11/2012	10/-	
212	Shri. Vivek A. Naik,	Temwada Cansarvornem, Pernem Goa.	M/s. Salgaocar Metal Trust	1/11/2012.	27/11/2012	10/-	18/-

213	Shri. Prakash Sawalarm Chari,	r/o House No.101/2 Anand Building, Taleigao Tiswadi, Goa.	action taken report	27/11/2012 transferred to this board office by the office of the collector, north goa district, Revenue branch, panaji goa vide letter dt 7/11/2012.	27/11/2012		12/-
214	Shri. Jerry Figueredo,	H.No 31, Movathi Bhatt, Quepem Goa.	M/s.Vijay Industries	29/10/2012.	27/11/2012	10/-	8/-
215	Mr. Vijay Sardesai,	H.No.1/2543, Davondem, Fatorda, Salcete Goa.	Names, PerIODs, Emulments & Perks entitlements of Chairman & Dy. Chairman from the date of establishment of the Corporation.	30/10/2012.	28/11/2012	10/-	
216	R.G. Furtudo	F3/A1, Virginkar Residency Ambaji Fatorda – Goa	information on M/s Zuari Industries Ltd	04-10-2012	28/11/2012	10	200/-
217	Vijay Gajanan Shetye,	Resident of Shriram Srruti, Bordem, Bicholim Goa.	Smt. Kunda M. Shetye	21/11/2012.	12-04-2012	10/-	42/-
218	Mr. Raju Iyer (IAC Activist)	H.No. 997/E/12 Ward No.VII, Bacubhat Raia, Salcete Goa.	Apollo Victor Hospital Margao	31/10/2012.	12-04-2012	10/-	70/-
219	Shri. Sandip Dessai	House No.282, Sancorda, Taluka Sanguem Goa.	M/s. Elray Minerals & Co	22/5/2012 received in this board on 19/11/2012.	12-04-2012	10/-	
220	Mr. Rohit Viegas	VIEGAS, H.No. 15-C, Near Samuel Ground, Cana, Benaulim, Saclete Goa.	Mobile Towers Installtions	19/11/2012.	12-07-2012	10/-	
221	Smt. Samradhi S. Marathe,	Near Village Panchayat Assagao, Assagao, Bardez Goa.	M/s. V.G. Quenim	9/11/2012.	12-07-2012	10/-	
222	Mr. Antonio Jose Joaquim de Souza,	"Amcho Asro", H.No. 58, Punola Ucassaim, Bardez Goa.	Mr. Antonio Jose Joaquim de Souza,	12/11/2012.	12-10-2012		14/-
223	Rajesh Singh,	Rericho Smbo, Rsis Salcete Goa.	Inspection Report (file)	12/12/2012.	12-12-2012	10/-	54/-
224	Mr. Sudhakar Naik,	Goa MRF Union, Gokuldas T. Gaw, H.No. 282, "Dr. P.S. Ramani I Wadi-Talaulim, Ponda Goa.	online monitoring of MRF Ltd	19/11/2012.	12-11-2012	10/-	4/-
225	Mr. Gautam J. Pai,	Flat No. 18, Building B1, Sapana Woods, Borda, Margao Goa.	Mr. Gautam J. Pai,	27/10/2012 received in this office on 6/11/2012.	12-11-2012	10/-	
226	Mrs. Maria do Carmo Pinto,	92, A.V. Lourence Road, Margao Goa.	A.V. da Costa Memorial Clinics	15/11/2012.	12-11-2012	10/-	

227	Mrs. Maria Magdalena Godinho,	H.No. 256, Godinho Bhat, Opp. Kamat Plaza, St. Inez, Panaji Goa.	M/s. Godinho washing Centre	4/12/2012.	12-11-2012	10/-	80/-
228	Mr. Nandu Asrani,	S/o Purushottam asrani, R/o 14 September Cross Road, APT SF 2, Bloomsbury Apts, Frazer Town, Bangalore.	M/s. Kay Jay Construction Co. Pvt. Ltd	19/11/2012 received in this board on 22/11/2012.	12-11-2012		
229	Shri. Akhil Mohan,	107, Time Square, Sushant Lok I, Bock B, Gurgaon	Shri. Akhil Mohan,	transferred to this office by the Dept. of Science, Technology & Environment vide their letter dt 7/12/2012.	12-12-2012		
230	Shri. Imamsab Thankary,	R/o H.No. 172/33, Near Water Tank, Shantinagar, Ponda Goa.	Imamsab Thankary,	6/12/2012.	12-12-2012		
231	Shri. Arun Prabhakar Desai,	Amber Apts, Shop No. 4/5, Vishant Road, P.O. Box No. 416, Margao Goa.	Shri. V. Pattuswamy	6/6/2012 received on 23/11/2012.	13/12/2012		
232	Mr. Arithraj Bhowmik,	Salgaocar Chambers, P.O. Box No. 114, Margao Goa.	M/s. Sesa	15/11/2012 received in this board on 16/11/2012.	13/12/2012	10/-	164/-
233	Mr. Silvester Vaz,	H.No. 164, Adao Vado, Majorda, Salcete Goa.	M/s. Alila Diva (Sea Bird)	26/11/2012.	14/12/2012	10/-	32/-
234	Shri. Jerry Figueredo,	H.No. 31, Movathi Bhatt, Quepem Goa.	M/s. Vijay Industries	4/12/2012.	14/12/2012	10/-	
235	Mr. H. Saldanha,	167, Nagalli Hills Colony, Dona Paula, Goa.	Mr M V Shanbhag	10/12/2012.	14/12/2012	10/-	52/-
237	Shri. Santana Piedade Afonso,	H. No. 518 (263, Comba-Central, P.O. Cuncoim, Salcete Goa.	information	26/11/2012.	17/12/2012	10/-	
238	Mrs. Joan Mascarenhas E D'souza,	H.No. 302, Tropa Vaddo, Sodiem, Siolim, Bardez Goa.	Mrs. Joan Mascarenhas E D'souza,	18-11-2012	21/12/2012		8/-
239	Shri. Anil Desai,	House no.661, Mardol-Goa, through constituted Power of Attorney, SHRI RAJENDRAL L. DESAI, House No. 661, Mardol-Goa.	Quarrying Lease at Kerim (file)	12/12/2012.	12-12-2012	10/-	
240	Mrs. Joan Mascarenhas E D'souza,	H.No.315/4, Tropa Vaddo, Sodiem, siolim, Bardez Goa.	Mrs. Joan Mascarenhas E D'souza,	Nil received in this board on 5/11/2012.	01-02-2013	10	
241	Mr. Dilip B. Gaonkar,	Sirigao Assonora Goa.	Shri Dilip B. Gaonkar,	4/12/2012 received in this board on 6/12/2012.	01-03-2013	10	10

242	Ms. Jaya Kanoi,	180, Block 'G' floor, New Alipore, Koltata.	Mr.Amar K Vazirani	14/11/2012.	01-07-2013	10	0
243	M/s. Tonia Estates & Resorts Pvt.Ltd	Raicho Ambo, Raia, Salcete Goa.	Colva Creek	11/12/2012.	01-08-2013	10	634
245	Mr.Menino Pereira,	Resident of H.No.338, Reprovaddo, Varca, Salcete Goa.	Existing Hotel	10/12/2012.	01-10-2013	10	
246	Mr. Sebastiao Serrao,	Velwaddo-Quelossim, Cortalim-Goa.	M/s. Gail (India) Limited	5/12/2012 received in this board on 14/12/2012.	01-10-2013	0	0
247	Mr. Rajendra Digambar Gaitonde,	Opp. Sukhatankar Plaza, Near New Bridgen Sanguem Goa.	Mr. Rajendra Digambar Gaitonde,	4/12/2012.	01-10-2013	10	
248	Shri. Arun Prabhakar Desai,	Ambar Apts, Shop No.4/5, Vishant Road, P.O. Box No.416, Margao Goa.	action taken report	28/12/2012 received in this board on 31/12/2012.	01-11-2013	0	0
249	Mrs. Joan Mascarenhas E D'souza,	H.No.302, Tropa Vaddo, Sodiem, Siolim, Bardez Goa.	Persecuted Church/Tropa Church	5/12/2012.	01-11-2013	10	
250	Mr. Shaikh Mohammad Akbar	Flat No.F-6, Daffodils Hsg. Co-op. Society, Indona, Davorlim, Salcete Goa.	Village Panchayat Davorlim	28/12/2012 received in this board on 31/12/2012.	01-11-2013	10	
251	Mr. Nutan Maurya,	Research Associate,Centre for Science, Technology & Society, School of Habitat Studies, Tata Institute of Social Sciences, Deonar, Vn Puravi Marg, Sion- Trombay Road, Mumbai.	functioning of the Board	13/12/2012.	01-11-2013	10	0
252	Mr. Dattaprasad Shirgurkar,	Sukad, Vantem, Advoi, Sattari Goa.	Vantem area	13/12/2012 received in this board on 17/12/2012.	01-11-2013	8	8
253	The United Gaon's Shanti Concern,	H.No.165, Near Church, Moraileum, Curchorem Goa.	requisite documents (file)	1/1/2013.	/1/2013		
254	Mr. Vivek A. Naik,	Temvadda Cansarvornem, Pernem Goa.	M/s. Salgaonkar Metal Trust	14/12/2012.	14/1/2013	10	18
255	Mr. Oscar Martins,	H.No.471, Adiband Cuncolim Salcete Goa.	Nicomet Industries Ltd	13/12/2012 received in this board on 14/12/2012.	14/1/2013	10	375
256	Mr. Suhasini S. Govekar,	Village Panchayat Caisua, Dabhol-waddo, Chapora, Bardez Goa.	NOC issued to Pamela D'Mello	10/12/2012 received in this board on 14/12/2012.	18/1/2013	10	
257	Manuel C Fernandes,	H.No. 7/1, Damedem, Tivim, Bardez Goa.	M/s. Xavier Tooling Enterprises (file)	17/12/2012.	01-07-2013	10	
258	Mr. C.S. Barreto,	H.No.206, Mazalvaddo, Assagao-Goa.	erecting/installing a mobile tower	10/1/2013 received in this	21/1/2013	10	168

				board on 11/1/2013.			
259	Mrs. Aura Fernandes,	H.No.537/1/5 Aradi, Guirim, Bardez Goa.	Shri. Anant Gurudas Toraskar	01-10-2013	21/1/2013	10	
261	Mrs. Joan Mascarenhas E D'Souza,	H.No.302/4, Tropa Vaddo, Sodiem, Siolim, Bardez Goa.	M/s.Baseline Technologies	1) dt 5/12/2012. 2) board's letter dt 11/1/2013.	23/1/2013	10	
262	Dr. Nutan Maurya,	Dept. of Scince Technology & Environment, Govt. of Goa, Opp. Saligao Seminary, Saligao, Bardez Goa.	infotmation regarding The board	11/1/2013.	23/1/2013	10	
263	Shri. Trajano D'Mello,	Opp. Sports Complex,Peddem Mapusa, Bardez Goa.	NOC issue to Sports complex	27/12/2012 transferred to this Office by the Dept. of Information and Technology vide their letter dt 7/1/2013.	24/1/2013	0	
264	Mr. Shri. Ghanshyam Singh,	205, Main Road, Samta colony, Near Union Bank of India, Opposite Shikarpurii Panchayat, Raipur.	Shri Karan Singh	2/1/2013.	24/1/2013	10	
265	Mrs.Mina Shetgaonkar,	Bela Vista Vaddo, Sirsaim, Bardez Goa.	Mrs.Mina Shetgaonkar,	24/12/2012.	22/1/2013	10	
266	Marie Christine Rebillet,	Managing Director, M/s Flying Maya Guest House Pvt. Ltd, 511, Murrod Vaddo, Candolim Bardez Goa.	Sunburn Festival organisation or Sham Hotels Pvt. Ltd,	18/1/2013.	28/1/2013	10	
268	Shri.Bhagwan T.M	S/o ShriTikamdas R/o 169 Kailash Hills, East of Kailash, New Delhi	CPCB, attached at Annexure-I is the national inventory of hazardous waste	1/12/2012 transferred to this board by central pollution control board vide letter no. F.No.B- 29016SC)/1(30)/ 11/HWMD/10446 dt 10/12/2012 and received on 2/1/2013.	29/1/2013		
269	Shri. Silvester Vaz,	H.No. 164, Adaovaddo, Majorda, Salcete Goa.	Allila Diwa Hotel	16/1/2013.	31/1/2013	10	
270	Smt. Judith Almeida,	257/1, Ward 3, Bagdem, Colva, Salcete Goa.	Hon'ble High Court	22/1/2013.	02-01-2013	10	
271	Anthony F. De Souza,	1st flor, next to Asilo Hospital, (OPD), Behind Mapusa Church, Horta Paroquial, Mapusa Bardez Goa.	M/s. Prabhu Chambers	15/1/2013.	02-01-2013	10	
272	Mr. Santosh Rane,	Tulsi Niwas, Flat No.304, Plot No-383, Sector-19, Koparkhairane, Navi	List of registered Rubber Tyre Scrap Melting Companies in Goa.	19/1/2013.	02-01-2013	10	

		Mumbai.					
273	Adv. Gautam Pednekar,	Office No.F-7, 1st Floor, Elzira Commercial Complex, Adjacent to Milagres Credit Co-operative Society, Angod, Mapusa-Goa.	M/s. Classic Square Realty Private Limited	4/1/2013 transferred by the Mapusa Municipal Council on 22/1/2012.	4/2/2013.	0	
274	Mr. Joao Fernandes,	Near Stone Crusher, H.No. 217, Nirmala Nagar, Xeldem, Quepem Goa.	M/s. Popular Construction	18/1/2013.	02-04-2013	10	40
275	Mr. Imamsad Thankary,	R/o. H.No.172/33, Near Water Tank, Shantinagar, Ponda Goa.	applications of posts filled by Board	8/1/2013 received in this board on 9/1/2013.	02-05-2013	10	
276	Shri. Manoj Sharma,	143/F/1, Lovela Apartments, Opp. MES Church, Aquem Baixo, Rawanfond, Margao Goa.	M/s. Sunrise Zinc Ltd.	28/1/2013.	02-05-2013	10	264
277	Shri. Vishal Bhatnagar,	Cyber House, B-35, Sector 32, Gurgaon	Shri. Vishal Bhatnagar,	4/1/2013 transferred to this office by the dept. of information and technology vide their letter dt 11/1/2013 and received on 22/1/2013.	02-07-2013		
278	Shri. Jerry Figueredo,	H.No.31, Movathi Bhatt, Quepem Goa.	M/s. Vijay Industries	1/2/2013.	02-07-2013	10	6
279	Shri. Digambar K. Naik,	H.No. 141, Marad Road, Bottonem, Dharbandora, Goa.	Mr. Janardhan Vassudev Venzi Naik	21/1/2013.	02-07-2013	10	
280	Ms. Nutan Maurya,	Research Associate, Centre for Science, Technology & Society, School of Habitat Studies, Tata Institute of Social Science (TISS), Deonar, V.N. Puravi Marg, Sion-Trombay Road, Mumbai	information of the functioning of Board	7/1/2013 received in this board on 11/2/2013.	02-07-2013	10	
281	Shri. Govind S. Gawde,	H.No. 144/E, Dhonshi, Nagueshi-Bandor, Ponda Goa.	M/s GRT Metals or R.T. Metals	4/2/2013.	02-11-2013	10	
282	Mr. Albert Joseph,	Madhusdan Towers co-op Hsg Society, A-403, Kaylan Mohone Road, Stateion Road, Shahad, Kaylan (w)	reg Aluminium Scrap Melting Companies in Goa	19/1/2013.	02-11-2013	10	
283	Shri. Subhod D. Talaulikar,	BF-2, Indira Apartments, Comba Margao Goa.	Margao Muniipal Council	nil received on 07/2/2013.	02-11-2013	10	

284	Shri. Pralhad Malvadkar,	201 shivsmruti, (N.M. Joshi Marg) Curry Road-Naka, Lower Parel. Mumbai	Sh. Pralhad Malvadkar	11/12/2012 transferred to this office by the central pollution control board vide their letter dt 18/1/2013 and received on 29/1/2013.	02-11-2013		
285	Shri. Prakash Sawalaram Chair,	r/o Hosue No. 101/2 Anand Building, Taleigao Tiswadi, Goa.	SESA GOA	26/12/2013.	02-11-2013	10	
286	The Public Inormation Officer,	Captain of Ports, Panaji Goa.	Arunkumar S. Harishetra	11/2/2013.	13/2/2013	10	
287	Shri. Newton A. Fernandes,	Green Villa, H.No. 200/8/1, Tambetim, Keni Colony, Opp. Syngenta (I) Ltd., Corlim, Ilhas, Goa.	Shri. Newton A. Fernandes,	18/1/2013.	13/2/2013	10	
288	Shri. Santan Dias,	H.No. 121/C, Tambetim,, Maina Curtorim, Salcete Goa.	M/s. Grand Hyatt	23/1/2013.	18/2/2013	10	368
289	Shri. Vivek A. Naik,	Temvadda Cansarvornem, Pernem Goa.	crusher unit report	15/2/2013.	18/2/2013	10	
290	Shri. Sharadchandra K.V. Desai,	Lamgao, Bicholim Goa.	Reports of water ssamples collected from village lamgao	31/1/2013 transferred to this office by the water resources department, Bicholim Goa vide their letter dt 5/1/2013 and reveived on 6/2/2013.	20/2/2013	10	
291	Siddharth Prabhu Dessai,	R/o H.No. 142, Assolda Chandor Goa.	Mr. Laximan N. Gauns (file)	19/2/2013.	22/2/2013	10	
292	Mrs. Jaya Kanoi,	180, Block 'G', 3rd Floor, New Alipore, Kolkata	information of Board functioning	20/12/2012 recevied on 17/1/2013.	25/2/2013	10	
293	Shri. Uday A.C. Priolkar,	R/o. H.No. C5/55, Mala, Panaji Goa.	Executive Engineer	13/2/2013.	25/2/2013	10	10
294	Tony Wade,	H.No. 1555/5, 2 Flushing Meadows, Pequeno Chivar, Vagator, Anjuna, Barddez Goa.	The Anchorage	5/2/2013.	27/2/2013	10	
295	Shri. Shailesh Shetye,	Betki, Bagwada, Marcela Goa.	Directorate of mines geology	15/2/2013.	28/2/2013	10	
296	Shri. Siddesh Anant Dhargalkar,	H.No. 222, Gaonwada, Dhargal, Pernem, Goa.	Aakaash Manufacturing Company Pvt.ltd.	12/2/2013 recevied in this board on 13/2/2013.	28/2/2013	10	
297	Reginaldo D' Souza,	216, Bela Vista, Sangolda, Bardez Goa.	Due to discharge of sewage from sy.81/1, Pollution of wells in Bela Vista, Sangolda.	11/1/2013.	28/2/2013	10	

298	Shri. Amit Kumar,	Society for Human Health, DDA Flats-2nd Floor, 71 New Ranjeet Nagar Opp. Satyam Cinema, New Delhi	file records/documents	19/2/2013.	03-01-2013	10	
299	Shri. Pramod D' Gauns Dessai,	Sarpanch, Village Panchayat, Xeldem, Goa.	Shri. Pramod D'Gauns Dessai	30/1/2013 transferred to this office by the Directorate of health service vide their letter dt 6/2/2013 and received on 11/2/2013.	03-11-2013	10	
301	Wilma Sanny D'Costa,	(Junior Laboratory assistant), GSPCB.	grant photocopies of the documents (file)	11/3/2013.	03-11-2013		6
302	Shri. C.M. Fernandes,	C/o Dr. barbosa Bldg., F 6, 2nd floor, Patrong, Vasco da Gama, Goa.	Newspapers that Controller and Auditor General (CAG)	4/3/2013.	03-12-2013	10	
303	Mr. Shailesh Shetye,	Betki, Bagwada, Marcela Goa.	river mandovi	7/3/2013.	13/3/2013		
304	Smt. Judith Almeida,	257/1, Ward 3, Bagdem, Colva, Salcete Goa.	inspection report	19/2/2013.	13/3/2013	10	
305	Shri. Francis Monteiro,	H.No. 274, Batim, Gaoncar Vaddo, Ilhas.	Cyd Paes	4/3/2013.	13/3/2013	10	
306	Shri. Shailesh Shetye,	Betki, Bagwada, Marcela Goa.	village betki in ponda taluka	26/2/2013.	14/3/2013	10	
308	Shri. Amit Kumar,	Society for Human Health, DDA Flats-2nd Floor, 71 New Ranjeet Nagar Opp. Satyam Cinema, New Delhi	Directorate of Municipal Administration	19/2/2013 transferred to this office by directorate of municipal Administration vide letter date 12/3/2013.	19/3/2013		
309	Mr. Shaikh Mohammed Akbar,	Flat No. F-6, Daffodils Housing Co-op Society, Indona, Davorlim, Salcete goa.	application transferred to ASTE	6/3/2013.	19/3/2013	10	
310	Sahyadri Sinari,	Kalam-Wada, Amona Bicholim Goa.	Shri. D.M. Borkar	4/3/2013.	20/3/2013	10	
311	Shri. Valane Fernandes,	C/o Devine Computers, abreovaddo, Saligao, Bardez Goa.	recycling of Ewaste under E-waste (M&H)	4/3/2013.	21/3/2013	10	
312	Sadanand R. Palni,	H.No.1282/2, Palni Vaddo, Tivim, Bardez Goa.	inspection and analysis report	20/3/2013.	26/3/2013	10	8

ANNEXURE VIII

Table 9: Hazardous waste Authorization granted for the Year 2012-2013

Sr. No.	Name of the unit	Category	Type of waste	Quantity	Mode of disposal
1	M/s. The Indian Hotels Co. Limited, (Unit: Taj Exotica) (Orange Category), survey No.341/1,6,7, Calwaddo, Benaulim, Salcette-Goa.	3.3	Sludge & filters contaminated with oil	12 nos./annum	To be sent to M/s Mumbai waste management Ltd. at Taloja for incineration .
		5.1	Used/spent oil	1700 litres/annum	To recycler registered with CPCB & having valid authorization of SPCB
			HSD Sludge	500 litres/annum	
2	M/s. Vision Enterprises (Hotel 'The Crown Goa), (orange Category), Chalta No. 138-147, P.T. sheet No.35, Bairo Alto Pilotos, Jose Falcao Road, Panaji-Goa.	5.1	Oil Used/ Spent oil	200 litres/annum	To recycler registered with CPCB and having valid authorization of SPCB
3	M/s. Marico Limited (Medium Scale Enterprise) (Orange Category), Survey No.71 &72/1, Khandepar, Ponda-Goa.	5.1	Oil Used/ Spent oil	2.0 M T/annum	To recycler registered with CPCB and having valid authorization of SPCB
4	M/s. Wyeth Limited (Large Scale Industry) (Orange Category), Plot no. L-137, Phase III-A, Verna Ind. Estate, Verna, Salcette - Goa.	5.1	Used /Spent Oil	5 KL/ annum	To recycler registered with CPCB and having valid authorization of SPCB
		5.2	Oil soaked cotton waste	3 tons/ annum	To be sent to M/s Mumbai Waste Management Ltd. at Taloja for incineration
		28.1	Pharmaceutical residues & waste	25 tons/ annum	Chemical-Physical Treatment followed by disposal in a secured landfill site having valid authorization from SPCB OR To be sent to M/s Mumbai Waste Management Ltd. at Taloja for incineration
		28.3	Off Specification products	10 tons/ annum	Chemical-Physical Treatment followed by disposal in a secured landfill site having valid authorization from SPCB OR To be sent to M/s Mumbai Waste Management Ltd. at Taloja for incineration
		28.4	Date expired, discarded off specification drugs/ products/ laboratory chemicals	10 tons/ annum	Chemical-Physical Treatment followed by disposal in a secured landfill site having valid authorization from SPCB OR To be sent to M/s Mumbai Waste Management Ltd. at Taloja for incineration
		28.5	Spent organic solvents	3 KL/ annum	To be sent to M/s Mumbai

			(laboratory analysis waste)		Waste Management Ltd. at Taloja for incineration. Laboratory washing shall be treated in ETP
		33.3	Discarded containers/ liners/ barrels	10 tons/ annum	Wash water treated in Effluent Treatment Plant & decontaminated drums given for recycling.
		34.1	Flue gas cleaning residue & carbon from ETP	10 tons/ annum	Chemical-Physical Treatment followed by disposal in a secured landfill site having valid authorization from SPCB OR To be sent to M/s Mumbai Waste Management Ltd. at Taloja for incineration
		34.3	Effluent Treatment Plant Bio Sludge	10 tons/ annum	Chemical-Physical Treatment followed by disposal in a secured landfill site having valid authorization from SPCB OR To be sent to M/s Mumbai Waste Management Ltd. at Taloja for incineration
		35.1	Filters	2 tons/ annum	To be sent to M/s Mumbai Waste Management Ltd. at Taloja for incineration
		15.2	Discarded asbestos	4 tons/ annum	To be disposed in a secured landfill site having valid authorization from SPCB
5	M/s. Prestige Holiday Resort Pvt. Ltd. (Royal Palms) (Orange Category), Survey No.398/1, Near Maria Hall, Vasvaddo, Benaulim, salcette-Goa.	5.1	Used /Spent Oil	150 ltrs/Annum	To recycler registered with CPCB and having valid authorization of SPCB
6	M/s. FDC Limited (Unit III) (Large Scale Estate, Verna, Salcette-Goa.	5.1	Used Oil	0.6 MT/ annum	To recycler registered with CPCB and having valid authorization of SPCB
		28.1	Pharmaceutical residues & wastes	4.8 MT/ annum	To be sent to M/s Mumbai Waste Management Ltd. at Taloja for incineration
		28.2	Spent Carbon	0.3 MT/ annum	To recycler registered with CPCB and having valid authorization of SPCB
		34.3	ETP sludge	11.3 MT/ annum	Chemical-Physical Treatment followed by disposal in a secured landfill site having valid authorization from SPCB
7	M/s. Macbrout Engineering Pvt. Ltd. (SSE UNIT) (Green Category), Plot no. D2-5, Margao Industrial Estate, St.Jose de Areal, Salcette - Goa.	5.2	Waste oil	2.4KLD/Annum	To recycler registered with CPCB and having valid authorization of SPCB
8	M/s. Shree Gajanan Paper Industries (SSE UNIT)	21.1	Waste Ink	2.0 Kg/annum	To be sent to M/s Mumbai Waste Management Ltd. at

	(Green Category), Plot No. 49-A, Pilerne Ind. Estate, Pilerne, Bardez-Goa.				Taloja for incineration
9	M/s. Zephyr Biomedicals (SSE UNIT) (Orange Category), Plot no. M-46 & M-47, Phase III-B, Verna Industrial Estate, Verna-Goa.	5.1	Used/Spent Oil	150 kg/annum	To recycle registered with CPCB and having valid authorization of SPCB
10	M/s. Caculo Earthmovers Pvt. Ltd.(SSE UNIT) (Orange Category), Plot No: B-24, Phase- IA, Verna Industrial Estate, Verna, Salcette-Goa.	5.2	Cotton waste contaminated with oil	3 kg/ month	To be sent to M/s Mumbai Waste Management Ltd. at Taloja for incineration
11	M/s. IFB Industries Limited (MSE UNIT) (Orange Category), Plot no. 62, 64, 66, Corlim Industrial Estate, Corlim, Ilhas-Goa.	5.1	Used/Spent oil	20 litres/annum	To recycler registered with CPCB and having valid authorization of SPCB
12	M/s. Albright Aluminium Industries (SSE UNIT) (Red Category), Plot no. 1, Phase II, Honda Industrial Estate, Honda, Sattari-Goa.	5.1	Used Oil	0.02 MT/Annum	To recycler registered with CPCB and having valid authorization of SPCB
		34.3	ETP Sludge	0.6 MT/Annum	Chemical-Physical Treatment followed by disposal in a secured landfill site having valid authorization from SPCB
13	M/s. Timblo Enterprises (Caurem Iron Ore Beneficiation Plant) (Red Category), Survey No.91, Caurem, Colomba, Sanguem-Goa.	5.1	Engine oil	1000 litres/ annum	To recycler registered with CPCB and having valid authorization of SPCB
			Gear oil	65 litres/ annum	
			Differential oil	140 litres/ annum	
			Hydraulic oil	800 litres/ annum	
			Grease	620 kg/ annum	
		5.2	Cotton waste	100 kg/ annum	To be sent to M/s Mumbai Waste Management Ltd. at Taloja for incineration
			Fuel filters	50 nos./ annum	
			Lube filters	60 nos./ annum	
14	M/s. ABAB Industries (SSE UNIT) (Orange Category), Plot no. 4 & 25, Pissurlem Industrial Estate, Pissurlem-Goa.	5.1	Used/Spent oil	0.05MT	To recycler registered with CPCB and having valid authorization of SPCB
15	M/s.Savannah Surfactants Limited (SSE UNIT) (Orange Category), Plot No.283/A,Kundaim Industrial Estate, Kundaim, Ponda-Goa.	5.1	Used Spent Oil	0.01 M.T	To recycler registered with CPCB and having valid authorization of SPCB
		34.3	Sludge from the evaporation tank	50kg/month	Chemical-Physical Treatment followed by disposal in a secured landfill site having valid authorization from SPCB
16	M/s. Driftwood Holiday Pvt. Ltd. (Orange Category), Survey no.113/4-B, Patrimona , Nerul, Bardez-Goa.	5.1	Used Spent Oil	0.01 M. T	To recycler registered with CPCB and having valid authorization of SPCB
17	M/s. Tin Packs Cans (SSE UNIT) (Orange Category), Survey No.63, 64 & 85,	5.1	Used Oil	50 liters/annum	To recycler registered with CPCB and having valid authorization of SPCB

	Plot no. 6 & 7, Margoa Industrial Estate, St. Jose-de-areal, Curtorim - Goa.				
18	M/s.Mangal Iron Pvt. Ltd. (MSE UNIT) (Red Category), Plot No. E-8, Madkaim Industrial Estate, Madkaim-Goa.	5.1	Used /Spent Oil	45 litres/ annum	To recycler registered with CPCB and having valid authorization of SPCB
19	M/s. Cipla Limited (LSE UNIT) (Orange Category), Plot no. L-139 To L-146, Verna Industrial Estate, Verna salcette-Goa.	5.1	Used /Spent Oil	1 MT	To recycler registered with CPCB and having valid authorization of SPCB
		28.1	Pharmaceutical waste	5 MT	Chemical-Physical Treatment followed by disposal in a secured landfill site having valid authorization from SPCB OR To be sent to M/s Mumbai Waste Management Ltd. at Taloja for incineration
		28.3	Off specification products	5MT	Chemical-Physical Treatment followed by disposal in a secured landfill site having valid authorization from SPCB
		28.4	Date expiry products, off-specification products	1 MT	Chemical-Physical Treatment followed by disposal in a secured landfill site having valid authorization from SPCB
		33.3	Discarded containers/ liners	20 nos.	Wash water treated in Effluent Treatment Plant & decontaminated drums given for recycling.
		34.1	Flue gas cleaning residue	1 MT	Chemical-Physical Treatment followed by disposal in a secured landfill site having valid authorization from SPCB
		34.3	Effluent Treatment Plant Sludge	1 MT	Chemical-Physical Treatment followed by disposal in a secured landfill site having valid authorization from SPCB
20	M/s. Lucky Star (Unit of Hafizabad Real Estate Pvt.), Orange Category), 3rd Ward, Beach Road, Colva, Salcette-Goa.	5.1	Used Spent Oil	100 liters/annum	To recycler registered with CPCB and having valid authorization of SPCB
21	M/s. Hotel Tanish (Orange Category), Reliance Trade Centre, V.V.Road, Margao - Goa.	5.1	Used Spent Oil	4 liters/annum	To recycler registered with CPCB and having valid authorization of SPCB
22	M/s. Sai Sham Service Station (SSE UNIT) (Orange Category), Plot No. 3, Phase III, Kakoda-Goa.	5.1	Used oil	300 kg/annum	To recycler registered with CPCB & having valid authorization from SPCB.
		33.3	Paint Tins	500 nos/annum	Thinner is used for cleaning paint tins & same thinner is used for dilution of paint & decontaminated tins given

					for recycling.
23	M/s. Sagar Feeds And Food Processsing Industries (SSE UNIT) (Orange Category), Plot no. L-27, Cuncolim Ind. Estate, Cuncolim, Salcette - Goa.	5.1	Used Spend Oil	100 liters/annum	To recycler registered with CPCB and having valid authorization of SPCB
		34.3	ETP Sludge	1200 kg/annum	Chemical-Physical Treatment followed by disposal in a secured landfill site having valid authorization from SPCB
24	M/s. Puja Ferro Alloys Limited (SSE UNIT) (Red Category), Plot no. L-4. Cuncolim Ind. Estate, Cuncolim Salcette - Goa.	5.1	Used /Spent Oil	20 litres/ annum	To recycler registered with CPCB and having valid authorization of SPCB or Usage in the gear boxes as lubricant.
25	M/s. Glenmark Generies Ltd. (Harmone Plant) (LSE) (Orange Category) Plot no. S-9, Colvale Ind. Estate, Colvale, Bardez-Goa.	5.1	Used /Spent Oil	200 kg/annum	To recycler registered with CPCB and having valid authorization of SPCB
		28.3	Off Specification products	500 kg/annum	Chemical-Physical Treatment followed by disposal in a secured landfill site having valid authorization from SPCB
		28.4	Date expired, discarded off specification drugs/ products/ laboratory chemicals	600 kg/annum	Chemical-Physical Treatment followed by disposal in a secured landfill site having valid authorization from SPCB
		34.3	E. T. P. Sludge	1000 kg/annum	Chemical-Physical Treatment followed by disposal in a secured landfill site having valid authorization from SPCB
26	M/s. Orchid Printers Pvt. Ltd. (SSE) (Green Category), Plot no. N-6, Phase IV, Verna Ind. Estate, Verna - Salcete - Goa.	33.3	Empty ink containers	30 nos	To recycler registered with CPCB and having valid authorization of SPCB.
27	M/s. Ameya Offset Printers (SSE) (Green Category), Plot no. 68, Kundaim Ind. Estate, Kundaim - Goa.	5.2	Waste Residues Containing Oil	0.010 M.T	To recycler registered with CPCB and having valid authorization of SPCB
		33.3	Empty Containers Tins	0.10 M. T	To be washed with solvents for removal of residual ink and decontaminated containers to be recycled. Solvents along with the ink to be re-used.
28	M/s. Merck Limited (EXPANSION) (LSE) (Orange Category), Plot No.11/1, Marvasodo, Usgaon, Ponda-Goa.	5.1	Used /Spent Oil	4 tons	To recycler registered with CPCB and having valid authorization of SPCB
		20.2	Spent Solvents	52 tons	To recycler registered with CPCB and having valid authorization of SPCB OR To be sent to M/s Mumbai waste Management Ltd., Taloja for incineration
		28.4	Date expired/ discarded and off specification drugs/	14 tons	Chemical-Physical Treatment followed by disposal in a secured landfill

		medicines		site having valid authorization from SPCB
	33.3	Discarded containers/ barrels/ liners used for hazardous chemicals	5 tons	Wash water treated in Effluent Treatment Plant & decontaminated drums given for recycling.
	34.3	Chemical sludge from ETP	13 tons	Chemical-Physical Treatment followed by disposal in a secured landfill site having valid authorization from SPCB
	C14/D6	Spent acetic acid conc. & Zinc salt mixture	218 tons	To a party having valid authorisation and consent from SPCB or Chemical-Physical Treatment followed by disposal in a secured landfill site having valid authorization from SPCB
	D6	Organic oxygen compounds (acetic acid)	10 tons	To a party having valid authorisation and consent from SPCB <u>OR</u> To be sent to M/s Mumbai waste Management Ltd., Taloja for incineration
	D2	Inorganics Acids (Spent Ortho Phosphoric acid)	70 tons	To a party having valid authorisation and consent from SPCB <u>OR</u> Chemical-Physical Treatment followed by disposal in a secured landfill site having valid authorization from SPCB
	C8	G.B. Oil high boiler (plant extract)	15 tons	To a party having valid authorisation and consent from SPCB <u>OR</u> Chemical-Physical Treatment followed by disposal in a secured landfill site having valid authorization from SPCB
		Aromatized high boiler of GB Oil (Plant extract)	23 tons	
		Transformed GB Oil (Plant extract)	20 tons	
	C13	Sodium hydrogen sulphide	82 tons	To a party having valid authorisation and consent from SPCB <u>OR</u> Chemical-Physical Treatment followed by disposal in a secured landfill site having valid authorization from SPCB
	28.5	DEHM/ Oxyne Forerun	27 tons	To be sent to M/s Mumbai waste Management Ltd., Taloja for incineration
		Mother liquor residue	16.5 tons	
	28.1	Oxyne Residue	13.8 tons	To be sent to M/s Mumbai waste Management Ltd., Taloja for incineration <u>OR</u> Chemical-Physical Treatment followed by disposal in a secured landfill site having valid authorization from SPCB
		DEHM Residue	5.4 tons	
	6.2	Zinc dust	7.5 tons	To recycler registered with CPCB and having valid authorization of SPCB

29	The Oceanique Resort (Unit of MEK Developers Ltd.) (Orange Category), Survey No. 57/1, Beach Road, \$th Ward, Colva, Salcette-Goa.	5.1	Used /Spent Oil	40 kg/annum	To recycler registered with CPCB and having valid authorization of SPCB
30	M/s. Tulip Diagnostics Pvt. Ltd. (SSE) (Orange Category), Plot no. S-125, Phase III B, Verna Ind. Estate, Verna - Goa.	5.1	Used /Spent Oil	120 kg/ annum	To recycler registered with CPCB and having valid authorization of SPCB
31	M/s.Abbott India Limited (EXPANSION) (LSE) (Orange Category), Plot no. L-18, L-19, Verna Industrial Estate, Verna-Goa.	5.1	Used / Spent Oil	5000 kg/ year	To recycler registered with CPCB and having valid authorization of SPCB
		5.2	Wastes/ residues containing oil	1000 kg/ yearc	To be sent to Mumbai waste Management Ltd, at Taloja for incineration since this is cotton waste.
		28.3	Off specification products	30 tons/ annum	Chemical-Physical Treatment followed by disposal in a secured landfill site having valid authorization from SPCB
		28.4	Date expiry products, off-specification products	2 tons/ annum	Chemical-Physical Treatment followed by disposal in a secured landfill site having valid authorization from SPCB OR To be sent to M/s Mumbai Waste Management Ltd. at Taloja for incineration
		28.5	Organic solvents	2 tons/ annum	To recycler registered with CPCB and having valid authorization of SPCB OR To be sent to M/s Mumbai Waste Management Ltd. at Taloja for incineration
		20.2	Spent solvents	2 tons/ annum	To recycler registered with CPCB and having valid authorization of SPCB OR To be sent to M/s Mumbai Waste Management Ltd. at Taloja for incineration
		33.3	Discarded containers/ liners	100 nos./ annum	Wash water treated in Effluent Treatment Plant & decontaminated drums given for recycling.
		34.1	Flue gas cleaning residue	5 tons/ annum	Chemical-Physical Treatment followed by disposal in a secured landfill site having valid authorization from SPCB
		34.2	Used ion exchange material	4 tons/ annum	Chemical-Physical Treatment followed by disposal in a secured landfill site having valid authorization from SPCB
		34.3	Effluent Treatment Plant Sludge	40 tons/ annum	Chemical-Physical Treatment followed by

					disposal in a secured landfill site having valid authorization from SPCB
32	M/s. A. L. Industries (SSE) (Orange Category), Plot no. SC-1/48, Verna Ind. Estate, Verna, Salcette-Goa.	5.2	Waste Oil	15 liters/month	To recycler registered with CPCB and having valid authorization of SPCB or M/s Spear Petroleum Pvt. Ltd., Kundaim Indl. Estate
33	M/s. Diamond Tool Industries (SSE) (Orange Category), Plot no.44/45, Kakoda Ind. Estate, kakoda, Curchorem-Goa.	5.1	Used /Spent Oil	200 litres/ annum	To recycler registered with CPCB and having valid authorization of SPCB
34	M/s. Medispray Laboratories Pvt. Ltd.(SSE) (Orange Category), Plot no.344/345, Kundaim Ind. Estate, Kundaim-Goa.	5.1	Used /Spent Oil	150 litres/ annum	To recycler registered with CPCB and having valid authorization of SPCB
		28.2	Spent catalyst/ spent carbon	150 Kg/annum	To recycler registered with CPCB and having valid authorization of SPCB
		28.5	Organic solvents	1 KL/Annum	To recycler registered with CPCB and having valid authorization of SPCB OR To be sent to M/s Mumbai Waste Management Ltd. at Taloja for incineration
		33.2	Sludge from treatment of waste water	10 kg/ annum	Chemical-Physical Treatment followed by disposal in a secured landfill site having valid authorization from SPCB
		33.3	Discarded barrels/ containers	5 no./ annum	Wash water treated in Effluent Treatment Plant & decontaminated drums given for recycling.
		34.3	Chemical Sludge from waste water treatement	1.2 tons/annum	Chemical-Physical Treatment followed by disposal in a secured landfill site having valid authorization from SPCB
		34.4	Oil & Grease Skimming Residues	10 kG/annum	Chemical-Physical Treatment followed by disposal in a secured landfill site having valid authorization from SPCB OR To be sent to M/s Mumbai Waste Management Ltd. at Taloja for incineration
35	M/s. Whispering Palms Beach Resort (Orange Category), Survey no.122/1 & 122/2, Wadi, Candolim, Bardez-Goa.	5.1	Used /Spent Oil	45 litres	To recycler registered with CPCB and having valid authorization of SPCB
36	M/s. The Country Clube De Goa(A Division of Country Club India Ltd.) (Orange Category), Plot no.836/1, Soranto Vaddo, Anjuna, Bardez-Goa.	5.1	Used oil	0.05 MTA	To recycler registered with CPCB and having valid authorization of SPCB
37	M/s. RMC Readymix	5.1	Used /Spent Oil	8-10 litres/ month	To recycler registered with

	(India) Pvt. Ltd. (MSE) (Orange Category), Plot no.21/22, 137/1, Chowgule Industrial Estate, Sancoale-Goa.				CPCB and having valid authorization of SPCB
38	Hindustan Containers (SSE) (Orange Category), Plot no. S-2, Colvale Ind. Estate, Colvale, Bardez-Goa.	3.3	Sludge contaminated with oil	600 litres/ annum	To recycler registered with CPCB and having valid authorization of SPCB <u>OR</u> To be sent to M/s Mumbai Waste Management Ltd. at Taloja for incineration
		5.2	Waste oil	800 litres/ annum	To recycler registered with CPCB and having valid authorization of SPCB <u>OR</u> M/s Spear Petroleum Pvt. Ltd., Kundaim Indl. Estate
		33.3	Empty paint containers	30 nos./ annum	Wash water treated in Effluent Treatment Plant & decontaminated containers given for recycling.
		34.3	ETP Sludge	100 kg/annum	Chemical-Physical Treatment followed by disposal in a secured landfill site having valid authorization from SPCB
39	M/s.Averina International Resorts Ltd. (Holiday Inn Resort Goa.) (Orange Category), Survey No. 10/A, I-B, 2A, Mobor, Cavelossim-Goa.	5.1	Used/spent oil	0.58 MT	To recycler registered with CPCB and having valid authorization of SPCB
40	M/s. Quality Exports (Unit - II) (Expansion of unit) (SSE) (Orange Category), Plot no. SB 64, 66 & 67, Additional Plot No. SB 69, 70 & SB 71, Cuncolim Ind. Estate, Cuncolim, Salcette - Goa.	5.1	Used/Spent oil	200 liters/annum	To recycler registered with CPCB and having valid authorization of SPCB
41	M/s.Sesa Goa Ltd.(Metcoke Division) (LSI) 9Red Category), Survey No.205,206,207, part of 177,44, 31/1, 43/2, 42/1, & 74, Village Navelim, Bicholim-Goa.	5.1	Used /Spent Oil	5,000 litres/ annum	To recycler registered with CPCB and having valid authorization of SPCB
		5.2	Oil soaked cotton rags/ wastes	20,000 kg/ annum	To be incinerated in the Coke Ovens
		33.3	Used/ discarded paint tins	2,000 nos./ annum	To recycler registered with CPCB and having valid authorization of SPCB
42	M/s. Johton Autocoat (SSE) (Green Category), Shed No. D-2-12, Corlim Ind.Estate, Corlim, Ilhas-Goa.	21.1	Paint and Ink Sludge/residues	0.10 MT/annum	To be sent to M/s Mumbai Waste Management Ltd. at Taloja for incineration
		33.3	Empty Paint Drums	10 kg/ month	To recycler registered with CPCB and having valid authorization of SPCB.
43	M/s. Teracom Limited. (LSE) (Orange Category), Plot no.170, Kundaim Ind. Estate, Kundaim-Goa.	5.1	Used / Spent Oil	20 liters/month	To recycler registered with CPCB and having valid authorization of SPCB
44	M/s. Manohar Packegings Pvt. Ltd. (SSE) (Green	5.1	Used/Spend Oil	500 Liters/annum	To recycler registered with CPCB and having valid

	Category), Plot no.36 (D2-6), 37(D2-7) & 38(d3-9), Mapusa Industrial Estate, Mapusa-Goa.	21.1	Process Waste, Residue & Sludges (Ink Tins)	250 nos./annum	authorization of SPCB To be sent to M/s Mumbai Waste Management Ltd. at Taloja for incineration
45	M/s. Shamiraj Hotels Pvt. Ltd. (Hotel Sea Coin) (Orange Category), Survey No. 432/2, 4th Ward, Colva Beach, Salcette-Goa.	5.1	Used/Spent Oil	20 Liters/Annum	To recycler registered with CPCB and having valid authorization of SPCB
46	M/s. Chowgule Industries Pvt. Ltd., (MSE) (Orange Category), Plot no. 19-20, Tivim Ind. Estate, Karaswada, Mapusa-Goa.	5.1	Used /Spent Oil	1,275 liters/month	To recycler registered with CPCB and having valid authorization of SPCB
		5.2	Used Oil Filter	400 nos./month	To be sent to M/s Mumbai Waste Management Ltd. at Taloja for incineration
			Cotton Waste	150 Kg/month	
		34.3	E.T.P Sludge	500 kg/month	Chemical-Physical Treatment followed by disposal in a secured landfill site having valid authorization from SPCB
47	M/s. Swastik Cruises (M.V. Blessing) (Orange Category), Near Betim Ferry, Betim, Bardez-Goa.	5.1	Used Oil	100 litres/annum	To recycler registered with CPCB and having valid authorization of SPCB
48	M/s. Crompton Greaves Limited (LSI) (Green Category), Plot no. 1, Bethora Industrial Estate, Bethora, Ponda-Goa.	5.1	Used /Spent Oil	1.8 MTA	To recycler registered with CPCB and having valid authorization of SPCB
		5.2	Cotton waste contaminated with oil	0.3 MTA	To be sent to M/s Mumbai Waste Management Ltd. At Taloja for incineration
		34.3	Effluent Treatment Plant Sludge	1.2 MTA	Chemical-Physical Treatment followed by disposal in a secured landfill site having valid authorization from SPCB
49	M/s. Alpha Industries (SSE) (Orange Category), Plot No.S-13, Colvale, Bardez-Goa.	5.1	Used Oil	40 liters/Annum	To recycler registered with CPCB and having valid authorization of SPCB
		34.3	E.T.P. Sludge	1500 Kg/Annum	Chemical-Physical Treatment followed by disposal in a secured landfill site having valid authorization from SPCB
50	M/s. Caculo Cars Pvt. Ltd. (Coastal Honda) (MSE) (Orange Category), Plot no. B-1-A & B-1, Utility Plot no.1-A, Verna Industrial Estate, Verna, Salcette-Goa.	5.1	Used /Spent Oil	500 litres/ annum	To recycler registered with CPCB and having valid authorization of SPCB
		5.2	Cotton waste contaminated with oil	15 kg/ annum	To be sent to M/s Mumbai Waste Management Ltd. at Taloja for incineration
			Oil filters	500 kg/ annum	
		34.3	ETP sludge	5 kg/ month	Chemical-Physical Treatment followed by disposal in a secured landfill site having valid authorization from SPCB
51	M/s.North Shore Hotels (Orange Category) H.No.793-A-1, Dandadi, Nerul, Bardez-Goa.	5.1	Used /Spent Oil	20 liters/annum	To recycler registered with CPCB and having valid authorization of SPCB

52	M/s. Cipla Limited (LSI UNIT) (Orange Category), Plot no.S-103 to S-105, S-107 to S-112, L-138, L-147/1 to L-147/4 and L-150, Verna Industrial Estate, Verna Salcette-Goa.	5.1	Used /Spent Oil	2.5 MT/ annum	To recycler registered with CPCB and having valid authorization of SPCB
		28.1	Pharmaceutical waste	5 MT/ annum	Chemical-Physical Treatment followed by disposal in a secured landfill site having valid authorization from SPCB OR To be sent to M/s Mumbai Waste Management Ltd. at Taloja for incineration
		28.3	Off specification products	5 MT/ annum	Chemical-Physical Treatment followed by disposal in a secured landfill site having valid authorization from SPCB
		28.4	Date expired/ off-specification products	1 MT/ annum	Chemical-Physical Treatment followed by disposal in a secured landfill site having valid authorization from SPCB OR To be sent to M/s Mumbai Waste Management Ltd. at Taloja for incineration
		33.3	Discarded containers/ liners	30 nos./ annum	Wash water treated in Effluent Treatment Plant & decontaminated drums given for recycling.
		34.1	Flue gas cleaning residue	1 MT/ annum	Chemical-Physical Treatment followed by disposal in a secured landfill site having valid authorization from SPCB
		34.3	Effluent Treatment Plant Sludge	3 MT/ annum	Chemical-Physical Treatment followed by disposal in a secured landfill site having valid authorization from SPCB
53	M/s. Polynova Industries Ltd. (LSI) (Orange Category), Plot no. 92-101, Kundaim Ind. Estate, Kundaim - Goa.	5.1	Used/Spend Oil	600 liters/annum	To recycler registered with CPCB and having valid authorization of SPCB
			Grease	100 kg/annum	
54	M/s. Steelmac Industries (SSI) (Orange Category), Plot no.49-B, Pilerne Ind. Estate, Pilerne, Bardez - Goa.	33.3	Empty Paint Tins	30 nos. /month	Wash water treated in Effluent Treatment Plant & decontaminated containers given for recycling
55	M/s. Canacona Hydrocarbons (SSE) (Red Category), Plot no. 87 & 89, Canacona Industrial Estate, Canacona-Goa.	4.1	Oily sludge from recycling waste oil	0.35 MT /month	To be sent to M/s Mumbai Waste Management Ltd. at Taloja for incineration
56	M/s. Nestle India Ltd. (LSE) (Orange Category) (Expansion of the Unit). Survey no.3, 4/7(part), 11(part), 34 (part) & 136 (part), Village	5.1	Used/Spent oil	5 KL/annum	To recycler registered with CPCB and having valid authorization of SPCB
		34.1	Chimney Residual ash	6 tones/annum	Chemical-Physical Treatment followed by disposal in a secured landfill

	Maulinguem, Bicholim-Goa.				site having valid authorization from SPCB
		36.1	Incinerator Ash	9 tons/annum	Chemical-Physical Treatment followed by disposal in a secured landfill site having valid authorization from SPCB
		34.3	ETP Sludge	100 kg/month	Chemical-Physical Treatment followed by disposal in a secured landfill site having valid authorization from SPCB
57	M/s. FDC LIMITED (I & II) (MSE) (Orange Category), Plot no.L-56 & 57, Phase II D, Verna Ind. Estate, Verna, salcete-Goa.	5.1	Used Oil	0.6 MT/ annum	To recycler registered with CPCB and having valid authorization of SPCB
		28.1	Pharmaceutical residues & wastes	0.72 MT/ annum	To be sent to M/s Mumbai Waste Management Ltd. at Taloja for incineration
		28.2	Spent Carbon	0.24 MT/ annum	To recycler registered with CPCB and having valid authorization of SPCB
		34.3	ETP sludge	3.6 MT/ annum	Chemical-Physical Treatment followed by disposal in a secured landfill site having valid authorization from SPCB
58	M/s.Shivsamarth Moteriders Pvt Ltd. (Counto Honda) (SSE) (Orange Category), Chalta No. 23, P.T. Sheet 98, 2/200, Duler, Mapusa-Goa.	5.1	Used /Spent Oil	900 liters/months	To recycler registered with CPCB and having valid authorization of SPCB
		5.2	Cotton waste	1 kg/week	To be sent to M/s Mumbai Waste Management Ltd. at Taloja for incineration
59	M/s. Caculo Earthmovers Pvt. Ltd. (SSE UNIT) (Orange Category), Plot No: 16 - B, Tivim Industrial Estate, Karaswada, Mapusa-Goa.	5.2	Cotton waste contaminated with oil	0.36 MT/annum	To be sent to M/s Mumbai Waste Management Ltd. At Taloja for incineration
		5.1	Used oil	210 litres/month	To be sent to Authorised recycler
60	M/s. Abbott India Limited (LSE) (Orange Category), Plot No. L-18 & 19, Verna Ind. Estate, Verna, Salcette-Goa.	5.1	Used / Spent Oil	5000 kg/ year	To recycler registered with CPCB and having valid authorization of SPCB
		5.2	Wastes/ residues containing oil	1000 kg/ year	To be sent to Mumbai waste Management Ltd, at Taloja for incineration since this is cotton waste.
		28.3	Off specification products	30 tons/ annum	Chemical-Physical Treatment followed by disposal in a secured landfill site having valid authorization from SPCB
		28.4	Date expiry products, off-specification products	2 tons/ annum	Chemical-Physical Treatment followed by disposal in a secured landfill site having valid authorization from SPCB <u>OR</u> To be sent to M/s Mumbai Waste Management Ltd. at Taloja for incineration

		28.5	Organic solvents	2 tons/ annum	To recycler registered with CPCB and having valid authorization of SPCB <u>OR</u> To be sent to M/s Mumbai Waste Management Ltd. at Taloja for incineration
		20.2	Spent solvents	2 tons/ annum	To recycler registered with CPCB and having valid authorization of SPCB <u>OR</u> To be sent to M/s Mumbai Waste Management Ltd. at Taloja for incineration
		33.3	Discarded containers/ liners	100 nos./ annum	Wash water treated in Effluent Treatment Plant & decontaminated drums given for recycling.
		34.1	Flue gas cleaning residue	5 tons/ annum	Chemical-Physical Treatment followed by disposal in a secured landfill site having valid authorization from SPCB
		34.2	Used ion exchange material	4 tons/ annum	Chemical-Physical Treatment followed by disposal in a secured landfill site having valid authorization from SPCB
		34.3	Effluent Treatment Plant Sludge	40 tons/ annum	Chemical-Physical Treatment followed by disposal in a secured landfill site having valid authorization from SPCB
61	M/s. Sanofi Synthelabo (India) Limited (LSE) (Orange Category), Plot no. L-121, Phase III - A, Verna Ind. Estate, Verna, Salcette-Goa.	5.1	Used /Spent Oil	2 MT/ annum	To recycler registered with CPCB and having valid authorization of SPCB <u>OR</u> To be sent to M/s Mumbai Waste Management Ltd. at Taloja for incineration
		5.2	Wastes and Residues containing oil	0.05 MT/ annum	To be sent to M/s Mumbai Waste Management Ltd. at Taloja for incineration
		26.1	Industrial use of synthetic dye	0.02 MT/ annum	To be sent to M/s Mumbai Waste Management Ltd. at Taloja for incineration
		28.1	Pharmaceutical waste	6 MT/ annum	Chemical-Physical Treatment followed by disposal in a secured landfill site having valid authorization from SPCB <u>OR</u> To be sent to M/s Mumbai Waste Management Ltd. at Taloja for incineration
		28.4	Date expired, discarded & off-specification drugs/ medicines	6 MT/ annum	Chemical-Physical Treatment followed by disposal in a secured landfill site or incineration having valid authorization from SPCB <u>OR</u> To be sent to M/s Mumbai Waste Management Ltd. at Taloja for incineration

		28.5	Spent organic solvents	10 MT/ annum	To be sent to M/s Mumbai Waste Management Ltd. at Taloja for incineration
		33.3	Discarded containers/ liners	2000 nos./ annum	Wash water treated in Effluent Treatment Plant & decontaminated drums given for recycling.
			Deblistered Aluminium/ PVC foils	4 MT/ annum	
		34.1	Flue gas cleaning residue	0.01 MT/ annum	Chemical-Physical Treatment followed by disposal in a secured landfill site or incineration having valid authorization from SPCB OR To be sent to M/s Mumbai Waste Management Ltd. at Taloja for incineration
			Used HEPA filters	2 MT/ annum	
		34.2	Used ion exchange material	0.5 MT/ annum	Chemical-Physical Treatment followed by disposal in a secured landfill site or incineration having valid authorization from SPCB OR To be sent to M/s Mumbai Waste Management Ltd. at Taloja for incineration
62	M/s. Hindusthan Petroleum Corporation Ltd. (Goa Aviation Service Facility) (MSE) (Orange Category), Plot no. A-10 & A-11, Murgaon Co-operative Industrial Estate, Near Dabolim Airport, Chicalim-Goa.	5.1	Used /Spent Oil	0.6 MT/ annum	To recycler registered with CPCB and having valid authorization of SPCB
63	M/s. Zuari Indian Oil Tanking Ltd. (Oil Terminal) (LSE) (Orange Category), Survey no. 11/1, Near NH-17B, Sancaole, Mormugao - Goa.	3.3	Sludge contaminated with oil	30 MT/ annum	To be sent to M/s Mumbai Waste Management Ltd. at Taloja for incineration
		5.1	Used /Spent Oil	0.4 MT/ annum	To recycler registered with CPCB and having valid authorization of SPCB
64	M/s. Fresh Express Logistics Pvt. Ltd. (SSE) (Green Category), Survey No. S/194, shed no.1886, Udi, Bondla Forest road, Usgaon, Ponda - Goa.	5.1	Used Oil/spent Oil	100 liters/annum	To recycler registered with CPCB and having valid authorization of SPCB
65	M/s. Renuka Tyres & Treads (SSE) (Orange Category), Shed No. D-23, Honda Ind. Estate, Honda, Sattari - Goa.	5.1	Used/Spent oil	0.02 MT/annum	To recycler registered with CPCB and having valid authorization of SPCB.
		X-X08	Rubber	25 MT/annum	Sale to authorized recycler registered with CPCB
66	M/s. Ronil Hotels & Resorts Pvt. Ltd., (Orange Category), Survey No.229/1, 4,5,6,10,11,12,13,14 & 15, Baga, Calangute, Bardez-Goa.	5.1	Used/Spend Oil	150 Liters/Annum	To recycler registered with CPCB and having valid authorization of SPCB
67	M/s. Esteem Industries Pvt. Ltd. (SSE) (Red Category), Plot	5.1	Used /Spent Oil	0.05 MT/ annum	To recycler registered with CPCB and having valid authorization of SPCB

	no.76,77,103,108 & 131, Pissurlem Ind. Estate, Pissurlem, Sattari-Goa.	34.3	E.T.P. Sludge	1.40 MT/ annum	Chemical-Physical Treatment followed by disposal in a secured landfill site having valid authorization from SPCB
68	M/s.Marmagoa Steel Limited (LSE) (Red Category), Survey no. 280, Eclate, Curtorim, Salcete-Goa.	5.1	Used/ Spent Oil	35 litres/ year	To recycler registered with CPCB and having valid authorization of SPCB
		5.2	Cotton Waste	500 kg/ year	To be sent to M/s Mumbai Waste Management Ltd. at Taloja for incineration
69	M/s. TCPL Packaging Limited (LSE) (Green Category), Plot no. 124 & 127 A, Kundaim Ind. Estate, Ponda-Goa.	5.1	Used/Spent Oil	24 liters/annum	To recycler registered with CPCB and having valid authorization of SPCB
70	M/s. Oriental Containers Ltd. (LSE) (Green Category), plot no.327 to 332, Kundaim Ind. Estate, Kundaim - Goa.	5.1	Used /Spent Oil	800 litres/ annum	To recycler registered with CPCB and having valid authorization of SPCB
		5.2	Oil soaked cotton waste	100 kg/annum	To recycler registered with CPCB and having valid authorization of SPCB OR To be sent to M/s. Mumbai waste Management Ltd., Taloja for incineration.
71	M/s. Maruti Beverages (SSE) (Orange Category), Survey No.329/3, H.No.1366/2, Dhakne, Madkaim, Ponda-Goa.	5.1	Used /Spent Oil	50 liters/annum	To recycler registered with CPCB and having valid authorization of SPCB
72	M/s. Sonatapetes Pvt. Ltd. (SSE) (Green Category), Plot. No. 1 & 10, Corlim Ind. Estate, Corlim, Ilhas - Goa.	5.1	Used/Spent oil	50 liters	To recycler registered with CPCB and having valid authorization of SPCB
73	M/s. Sea Bird Resorts Pvt. Ltd. (Unit: Alila Diwa Goa), Survey No. 48/10, Village Majorda, Salcette-Goa.	5.1	Used Oil	800 litres	To recycler registered with CPCB & having authorization from SPCB.
74	M/s. Sandalwood Resorts Private Ltd., (Orange Category), Plot no. 244/1, Vaiguinim Valley Donapaula, Taleigao-Goa.	5.1	Used oil	100 litres/hr	To recycler registered with CPCB and having valid authorization of SPCB
75	M/s. Himachal Futuristic Communication Ltd (LSE) (Orange Category), Plot no. L-35, 36,37, Phase II, Verna Ind. Estate, Verna - Goa.	5.1	Used/Spent Oil	115 liters/annum	To recycler registered with CPCB and having valid authorization of SPCB
76	M/s. Kishan Auto Engineering (SSE) (Orange Category), Plot no.25, Phase III, Kakoda Ind. Estate, Kakoda-Goa.	33.3	Empty paint tins	50 kg/month	Wash water treated in Effluent Treatment Plant & decontaminated containers given for recycling
77	M/s.Goa Rajee Auto Pvt. Ltd. (MSE) (Orange Category), Chalta No. 2, 9, 16, of PTS 274, Clover	5.1	Used/Spent Oil	250 litres/month	To recycler registered with CPCB and having valid authorization of SPCB

	Bldg, Ground floor, Shirvodem, Navelim, Margao-Goa.				
78	M/s. Seahath Canning Company (SSE) (Orange Category), Plot No. 8, Margao Industrial Estate, St. Jose de Areal, P.O. Curtorim, , South-Goa.	5.1	Used /Spent Oil	50 kg/ annum	To recycler registered with CPCB and having valid authorization of SPCB
		34.3	ETP Sludge	40 kg/ annum	Chemical-Physical Treatment followed by disposal in a secured landfill site having valid authorization from SPCB
79	M/s. Goa Shipyard Ltd. (LSE) (Red Category), PTS No.69, Vaddem, Vasco-da-Gama, Goa.	5.1	Used /Spent Oil	70 litres/ annum	To recycler registered with CPCB and having valid authorization of SPCB
		5.2	Wastes and Residues containing oil	3000 litres/ annum	To recycler registered with CPCB and having valid authorization of SPCB OR To M/s Spear Petroleum Pvt. Ltd., Kundaim Indl. Estate
		33.3	Empty containers of paints & thinners	4000 nos./ annum	To recycler registered with CPCB and having valid authorization of SPCB
			Empty containers of oil, lubrication & grease	36 nos./ annum	
80	M/s. Marksans Pharma Ltd. (Orange Category) (Large Scale Industry), Plot no.L-82 & L-83, Verna Industrial Estate, Verna, Salcette-Goa.	5.1	Used /Spent Oil	850 kg/ annum	To recycler registered with CPCB and having valid authorization of SPCB
		28.3	Off specification products	2 kg/ annum	Chemical-Physical Treatment followed by disposal in a secured landfill site having valid authorization from SPCB
		28.4	Date expired products	2 kg/ annum	Chemical-Physical Treatment followed by disposal in a secured landfill site having valid authorization from SPCB OR To be sent to M/s Mumbai Waste Management Ltd. at Taloja for incineration
		33.3	Discarded containers/ barrels	250 nos./ annum	Wash water treated in Effluent Treatment Plant & decontaminated drums given for recycling.
		34.3	Effluent Treatment Plant Sludge	180 MT/ annum	Chemical-Physical Treatment followed by disposal in a secured landfill site having valid authorization from SPCB
81	M/s. Lupin Limited (LSE) (Orange Category), Plot no.B-15, Phase I-A, Verna Ind. Estate, Verna, salcette - Goa.	5.1	Used /Spent Oil	75 kg/ month	To recycler registered with CPCB and having valid authorization of SPCB
		28.3	Off specification product	70000 kg/ annum	Chemical-Physical Treatment followed by disposal in a secured landfill site having valid authorization from SPCB OR To be sent to M/s. ACC wadi

					cement work, Gulbarga Karnataka for co-processing in cement kiln OR to M/s. Mumbai Waste Management Ltd. at Taloja for incineration
		28.4	Date expired product & discarded off-specification product	4000 kg/ month	Chemical-Physical Treatment followed by disposal in a secured landfill site having valid authorization from SPCB OR To be sent to M/s Mumbai Waste Management Ltd. at Taloja for incineration
		33.3	Discarded containers/ barrels/ liners	2000 nos./ month	Wash water treated in Effluent Treatment Plant & decontaminated drums given for recycling.
		34.2	Spent ion exchange resin	120 kg/ month	Chemical-Physical Treatment followed by disposal in a secured landfill site having valid authorization from SPCB
		34.3	E.T.P. Sludge	60000 kg/ annum	Chemical-Physical Treatment followed by disposal in a secured landfill site having valid authorization from SPCB OR To be sent to M/s. ACC wadi cement works, Gulbarga Karnataka for co-processing in cement kiln OR To be sent to M/s Mumbai Waste Management Ltd. at Taloja for incineration.
82	M/s. Riviera de Goa Resorts & Hotels Pvt. Ltd. (Orange Category), Survey No.165/1, 2, 3, 4 & 5, Ximer, arpora, Bardez - Goa.	5.1	Used/Spent oil	.05 M.T /annum	To recycler registered with CPCB and having valid authorization of SPCB
83	M/s. Starflex Sealing India Pvt. Ltd. (MSE) (Orange Category), Plot No. L-80/81, Verna Ind. Estate, Verna - Goa.	5.1	Used /Spent Oil	250 litres/ annum	To recycler registered with CPCB and having valid authorization of SPCB
		33.3	Empty paint tins	60 nos./ annum	To recycler registered with CPCB and having valid authorization of SPCB
84	M/s. Chowgule Industries Private Limited (MSE) (Orange Category), Survey No. P.T.S. no.75, Chalta no.14, Opp. Damodar Temple, Fatorda, Margao - Goa.	5.1	Used/Spent oil	1200 liters/month	To recycler registered with CPCB and having valid authorization of SPCB
			Grease	10 kg/month	
		5.2	Oil filters	400 nos/month	To be sent to M/s Mumbai Waste Management Ltd. at Taloja for incineration
85	M/s. Amit Capacitors Ltd. (SSE) (Green Category), Plot No. 90 & 91, G.I.D.C., Pilerne Ind. Estate, Pilerne, Bardez-Goa.	5.1	Used /Spent oil	80 liters/annum	To recycler registered with CPCB and having valid authorization of SPCB
86	M/s. Casino Motels	5.1	Used /Spent Oil	0.08 MT/annum	To recycler registered with

	(Orange Category), Alto-Porvorim, survey No. 65/2, Bardez-Goa.				CPCB and having valid authorization of SPCB
87	M/s.Filtertechniks Pvt. Ltd. (MSE) (Green Category), Plot No.26, D4-7, Kakoda Ind.	33.3	Paint tins	15 kg/month	To be sent to M/s Mumbai Waste Management Ltd. at Taloja for incineration
88	M/s. Mahindra Holidays & Resorts (I) Ltd. (Club Mahindra) (Orange Category), Survey No. 176/1, Varca, Salcette - Goa.	5.1	Used/Spent oil	1200 liters/annum	To recycler registered with CPCB and having valid authorization of SPCB
		34.3	STP Sludge	300 kg/month	Chemical-Physical Treatment followed by disposal in a secured landfill site having valid authorization from SPCB
89	M/s. Goa Resorts (Hotel Baia Do Sol) (Orange Category), Survey No.281/1, Baga, Calangute, Bardez - Goa.	5.1	Used/Spent Oil	50 liters/Annum	To recycler registered with CPCB and having valid authorization of SPCB
90	M/s. Sanofi Synthelabo (India) Limited (LSE) (Orange Category), Plot no. L-121, Phase III - A, Verna Ind. Estate, Verna, Salcette-Goa.	5.1	Used /Spent Oil	2 MT/ annum	To recycler registered with CPCB and having valid authorization of SPCB OR To be sent to M/s Mumbai Waste Management Ltd. at Taloja for incineration
		5.2	Wastes and Residues containing oil	0.05 MT/ annum	To be sent to M/s Mumbai Waste Management Ltd. at Taloja for incineration
		26.1	Industrial use of synthetic dye	0.02 MT/ annum	To be sent to M/s Mumbai Waste Management Ltd. at Taloja for incineration
		28.1	Pharmaceutical waste	6 MT/ annum	Chemical-Physical Treatment followed by disposal in a secured landfill site having valid authorization from SPCB OR To be sent to M/s Mumbai Waste Management Ltd. at Taloja for incineration
		28.4	Date expired, discarded & off-specification drugs/ medicines	6 MT/ annum	Chemical-Physical Treatment followed by disposal in a secured landfill site or incineration having valid authorization from SPCB OR To be sent to M/s Mumbai Waste Management Ltd. at Taloja for incineration
		28.5	Spent organic solvents	10 MT/ annum	To be sent to M/s Mumbai Waste Management Ltd. at Taloja for incineration
		33.3	Discarded containers/ liners	2000 nos./ annum	Wash water treated in Effluent Treatment Plant & decontaminated drums given for recycling.
			Deblistered Aluminium/ PVC foils	4 MT/ annum	
		34.1	Flue gas cleaning residue	0.01 MT/ annum	Chemical-Physical Treatment followed by

					disposal in a secured landfill site or incineration having valid authorization from SPCB OR To be sent to M/s Mumbai Waste Management Ltd. at Taloja for incineration
			Used HEPA filters	2 MT/ annum	
		34.2	Used ion exchange material	0.5 MT/ annum	Chemical-Physical Treatment followed by disposal in a secured landfill site or incineration having valid authorization from SPCB OR To be sent to M/s Mumbai Waste Management Ltd. at Taloja for incineration
91	M/s. Gemini Distilleries (Goa) Pvt. Ltd. (MSE) (Orange Category), Plot No.11 to 15 & 21 to 24, Sancaole Industrial Estate, Zuarinagar-Goa.	5.1	Used / Spent Oil	0.3 tons/annum	To recycler registered with CPCB and having valid authorization of SPCB
92	M/s. United Spirits Limited (LSE) (Red Category), Suirvey No. 164,166 & 167, Bethora, Ponda-Goa.	5.1	Used / Spent Oil	0.2 MT/ annum	To recycler registered with CPCB and having valid authorization of SPCB
		35.3	Spent Carbon	0.4 MT/ annum	To be sent to M/s Mumbai Waste Management Ltd. at Taloja for incineration
93	M/s. Sea Queen Beach Resort Pvt. Ltd. (Orange Category) Plot no.96/5, Betalbatim, Salcete - Goa.	5.1	Used /Spent Oil	25 kg/ annum	To recycler registered with CPCB and having valid authorization of SPCB
		34.3	STP sludge	15 kg/ annum	Chemical-Physical Treatment followed by disposal in a secured landfill site having valid authorization from SPCB
94	M/s. John Adam Valves(India) Pvt. Ltd. (SSE) (Green Category), Plot no. 277, Kundaim Ind. Estate, Kundaim - Goa.	5.1	Used oil	0.100 MTA	To recycler registered with CPCB and having valid authorization of SPCB
		21.1	Paint waste & residue	0.050 MTA	To recycler registered with CPCB and having valid authorization of SPCB
		33.3	Discarded container of paints	0.200 MTA	To recycler registered with CPCB and having valid authorization of SPCB
95	M/s. Indo Tech Ice and Cold Storage (Unit - II) (SSE) (Orange Category), Plot no U-10, Cuncolim, Salcete - Goa.	5.1	Used/Spent Oil	30 liters/annum	To recycler registered with CPCB and having valid authorization of SPCB
		34.3	ETP Sludge	2400 Kg/annum	Chemical-Physical Treatment followed by disposal in a secured landfill site having valid authorization from SPCB
96	M/s. Royale Assagao (Orange Category), Survey No.222/2-A, 222/10-A, 222/11 & 222/12, Soccolwada, Assagao, Bardez - Goa.	5.1	Used/Spent oil	50 liters/annum	To recycler registered with CPCB and having valid authorization of SPCB
97	M/s. Novacare Drug	5.1	Used / Spent Oil	20 litres/annum	To recycler registered with

	Specialities Pvt. Ltd. (SSE) (Green Category), Plot no. L-134, Phase III - B, Verna Ind. Estate, Verna - Goa.				CPCB and having valid authorization of SPCB
98	M/s. Tiger Sheet Metal Works - Unit - II (SSE) (Red Category), Plot No. 18, Corlim Ind. Estate, Corlim - Goa.	33.3	Empty Paint Drums	480 Tins/annum	To recycler registered with CPCB and having valid authorization of SPCB
99	M/s. Kesarval Motels & Holiday Homes (Orange Category), Survey No. 122 & 114/2, Kesarval Village, Quelossim, Cortalim, Salcette - Goa.	5.1	Used/Spent Oil	60 liters/annum	To recycler registered with CPCB and having valid authorization of SPCB
100	M/s. Alcon Cement Company Pvt. Ltd. (LSE) (Orange Category), Survey no.412/1-A, Surla, Bicholim - Goa.	5.1	Used/ Spent Oil	400 litres/ annum	To recycler registered with CPCB and having valid authorization of SPCB
		5.2	Cotton waste	200 kg/ annum	To be sent to M/s Mumbai Waste Management Ltd. at Taloja for incineration
101	M/s. Godwin Ship Repairs (SSE) (Red Category). Survey No.222/4, Zorint, Sancaole, Cortalim - Goa.	33.3	Paint tins	50 Tins/annum	Thinner is used for cleaning paint tins & same thinner is used for dilution of paint & decontaminated tins given for recycling.
102	M/s. Marpol Pvt. Ltd. (UNIT II) (MSE) (Orange Category), Plot No. ABC, Kakoda Ind. Estate, Kakoda - Goa.	5.1	Used/Spend oil	8 liters/month	To recycler registered with CPCB and having valid authorization of SPCB
		21.1	Paint waste powder/sludge	235 kg/day	To be sent to M/s. Mumbai Waste Management Ltd. at Taloja for incineration
103	M/s. Martins Comfort (Orange Category), Survey No. 142/1, H.No.3/B, Ranvaddo, Betalbatim, Salcette - Goa.	5.1	Used /Spent oil	0.05 MT/annum	To recycler registered with CPCB and having valid authorization of SPCB
104	M/s. Ulka Seafoods mPvt. Ltd. (UNIT I) (MSE) (Orange Category), Survey No. 6/2 & 7/3, Orgao, Marcela - Goa.	5.1	Used /Spent Oil	100 litres/ month	To recycler registered with CPCB and having valid authorization of SPCB
105	M/s. Karthik Inductions Ltd. (SSE) (Red Category), Plot No.120 - 121, Kundaim Ind Estate, Kundaim - Goa.	5.1	Used/Spent oil	100 liters	To recycle registered with CPCB and having valid authorization of SPCB
106	M/s. Skylark Resort (Orange Category), Survey No.36/1, 37/2-B & 37/12, H.No.447/2, 4th ward, Colva, salcete - Goa.	5.1	Used /Spent Oil	20 litres/ annum	To recycler registered with CPCB and having valid authorization of SPCB
107	M/s. Precitech Components (SSE) (Green Category), Shed No. D3/1, Honda Ind.	5.1	Used/Spend oil	0.4 KL/Year	To recycler registered with CPCB and having valid authorization of SPCB
		5.2	Waste residue	100 kg/Year	To be sent to M/s Mumbai

	Estate, Honda, Sattari-Goa.		containing oil(Cotton waste)		Waste Management Ltd. at Taloja for incineration
		33.3	Discarded containers/liners	2 nos/year	To recycle registered with CPCB and having valid authorization of SPCB
108	Palette Hotels (India) Pvt. Ltd. (Hotel HQ) (Orange Category), Chalta No.59, 61, 62 & 63 of P.T. Sheet No.102, Mormugao, Vasco-da-Gama-Goa.	5.1	Used /Spent Oil	60 litres/ annum	To recycler registered with CPCB and having valid authorization of SPCB
109	M/s. Ashley Resorts Pvt. Ltd. (ADAMO THE BELLUS) (Orange Category), survey No. 185/1, Ashley Road, Naika vaddo, Calangute, Bardez - Goa.	5.1	Used/Spent oil	0.100 MTA	To recycler registered with CPCB and having valid authorization of SPCB
110	M/s. Corlim Marine Exports Pvt. Ltd. (SSE) (Orange Category), Plot No.25-32, Sancoale Ind. Estate, Zuarinagar - Goa.	5.1	Used/Spent oil	60 liters/annum	To recycler registered with CPCB and having valid authorization of SPCB
		34.3	E. T. P Sludge	250 Kg/Annum	Chemical-Physical Treatment followed by disposal in a secured landfill site having valid authorization from SPCB
111	M/s. IFB Industries Ltd. (LSI) (Orange Category), Verna Ind. Estate, Verna, Salcette - Goa.	5.1	Used/Spent oil	800 liters/annum	To recycler registered with CPCB and having valid authorization of SPCB
		34.3	ETP Sludge	1000 kg/annum	Chemical-Physical Treatment followed by disposal in a secured landfill site having valid authorization from SPCB
112	M/s. Sika India Pvt. Limited (MSE) (Orange Category), Plot No.L-41, Verna Industrial Estate, Verna, Salcete - Goa.	5.1	Used /Spent Oil	0.1 MT/ annum	To recycler registered with CPCB and having valid authorization of SPCB
		20.1	Contaminated aromatic, aliphatic or naphthenic solvents	5.0 MT/ annum	To be sent to M/s Mumbai Waste Management Ltd. at Taloja for incineration
		21.1	Process waste residue and sludge	20 MT/annum	To be sent to M/s Mumbai Waste Management Ltd. at Taloja for incineration
		23.1	Waste residue - resin	20 MT/ annum	To be sent to M/s Mumbai Waste Management Ltd. at Taloja for incineration
		33.3	Discarded containers/ barrels	10.5 MT/annum	Wash water treated in Effluent Treatment Plant & decontaminated containers given for recycling.
		34.1	Flue gas cleaning residue	0.5 MT/annum	Chemical-Physical Treatment followed by disposal in a secured landfill site having valid authorization from SPCB
		34.3	Chemical sludge from waste water treatment	0.5 MT/annum	Chemical-Physical Treatment followed by disposal in a secured landfill site having valid

					authorization from SPCB
113	M/s. Muktar Infrastructure (India) Pvt. Ltd. (SSE) (Orange Category), Survey No.120/I-A, Sao Jose De Areal Village, Salcete - Goa.	5.1	Used/spent oil	100 litres/annum	To recycler registered with CPCB and having valid authorization of SPCB
114	M/s. Abdul Two wheeler Repair Center (SSE) (Orange Category), H.No.143, Madiacotto, Cuncolim, Salcete - Goa.	5.1	Used / Spent Oil	0.100 MTA	To recycler registered with CPCB and having valid authorization of SPCB
115	M/s. Sixteen Degrees North (Orange Category), Survey No.261/8A, H.No.574/1, Baga, Arpora, Bardez-Goa.	5.1	Used/Spent oil	0.034M.T/Annum	To recycler registered with CPCB and having valid authorization of SPCB
116	M/s. Coastal Sports Ventures Pvt. Ltd. (M.B. Barcolento) (Orange Category), River Mandovi, Panaji - Goa.	5.1	Used/Spent Oil	240 liters/annum	To recycler registered with CPCB and having valid authorization of SPCB
		3.4	Bilge Water	600 liters/annum	To recycler registered with CPCB and having valid authorization of SPCB OR To be sent to M/s Mumbai Waste Management Ltd. at Taloja for incineration
117	M/s. Golden Peace Hotels & Resorts Pvt. Ltd. (Hotel "NEO MAJESTIC"), (Orange Category), Survey No. 104/1A, Porvorim, Bardez-Goa.	5.1	Used /Spent Oil	0.2 MT/annum	To recycler registered with CPCB and having valid authorization of SPCB
118	M/s. Ultraa Flex (India) (SSE) (Green Category), Plot No. C/8, Phase 1- A, Verna Ind. Estate, Verna, Salcete - Goa.	21.1	Waste and residue waste contaminated with ink	20 Kg/month	To be sent to M/s Mumbai Waste Management Ltd. at Taloja for incineration
		33.3	Ink containers	50 nos./ month	To recycler registered with CPCB and having valid authorization of SPCB
119	M/s. Majorda Beach Resort (Unit of M/s.Eastern International Hotels Ltd) (Orange Category), Survey No.62/2, Majorda, Salcete - Goa.	5.1	Used /Spent Oil	15 kg/ month	To recycler registered with CPCB and having valid authorization of SPCB
		34.3	S.T.P. Sludge	25 kg/ month	Chemical-Physical Treatment followed by disposal in a secured landfill site having valid authorization from SPCB
120	M/s. C' Roque Resorts (Orange Category), Survey No. 42/0, Nova Vaddo, Sernabatim, Salcete - Goa.	5.1	Used/Spent oil	200 liters/annum	To recycler registered with CPCB and having valid authorization of SPCB
121	M/s. Wavelet Beach Resort (Orange Category), Survey No. 120/21 - A, H.No.357, Palolem, Canacona - Goa.	5.1	Used/Spent oil	30 liters/Annum	To recycler registered with CPCB and having valid authorization of SPCB
122	The Executive Engineer - Works Division XXI(PHE) (Orange Category), Survey	5.1	Used/Spend oil	10 liters/annum	To recycler registered with CPCB and having valid authorization of SPCB

	No.296, Public Works Dept., Shirvodem, navelim, Salcette - Goa.				
123	M/s. Sidhant Hospitality (Hawaii Comforts) (Orange Category), H.No.251/7, Dona Paula, Taleigao, Tiswadi-Goa.	5.1	Used /Spent Oil	25 litres/ annum	To recycler registered with CPCB and having valid authorization of SPCB
124	M/s. Lafarge Aggregates & Concrete India Pvt. Ltd. (RMC Plant) (MME) (Red Category), Plot no.23 & 26, Chowgule Industrial Plots, Zuarinagar, Sancaole - Goa.	5.1	Used /Spent oil	0.05MT/Annum	To recycler registered with CPCB and having valid authorization of SPCB
125	M/s. Encube Ethicals Pvt. Ltd. (SSE) (Orange Category), Plot No.C-1 to C-4,, C-17 to C-20, D-1, D-2, D-3 & D-15, Madkaim Ind. Estate, Madkaim - Goa	5.1	Used /Spent Oil	0.60 MT/ annum	To recycler registered with CPCB and having valid authorization of SPCB
		28.1	Residues and wastes	0.45 MT/ annum	Chemical-Physical Treatment followed by disposal in a secured landfill site having valid authorization from SPCB OR To be sent to M/s Mumbai Waste Management Ltd. at Taloja for incineration
		33.3	Discarded containers/ drums/ liners	4,500 nos./ annum	Wash water treated in ETP & decontaminated drums given for recycling.
		34.3	ETP Sludge	4.5 MT/ annum	Chemical-Physical Treatment followed by disposal in a secured landfill site having valid authorization from SPCB
		28.3	Discarded & off specification Drugs/Medicines	30 MT	To be sent to M/s. Mumbai Waste Management Ltd. at Taloja for incineration.
126	M/s. V.M. Salgaonkar & Brothers Pvt. Ltd. (M.V. Boa Sorte offshore Casino) (Orange Category), Mandovi River, Panaji - Goa.	5.1	Used /Spent Oil	300 litres/ annum	To recycler registered with CPCB and having valid authorization of SPCB
		3.4	Bilge water	100 litres/ month	To recycler registered with CPCB and having valid authorization of SPCB OR To be sent to M/s Mumbai Waste Management Ltd. at Taloja for incineration
127	M/s. Sigma Laboratories Limited (MSE) (Orange Category), Plot no.6, 7 & 8, Shed D3-23 & D3-24, Tivim Ind. Estate, Tivim, Mapusa - Goa.	5.1	Used /Spent Oil	0.035 MTA	To recycler registered with CPCB and having valid authorization of SPCB
		28.1	Wastes and Residues	0.10 MTA	Chemical-Physical Treatment followed by disposal in a secured landfill site having valid authorization from SPCB OR To be sent to M/s Mumbai Waste Management Ltd. at Taloja for incineration
		34.3	E.T.P. Sludge	0.60 MTA	Chemical-Physical Treatment followed by

					disposal in a secured landfill site having valid authorization from SPCB
128	M/s. E-Boshan Developers Pvt. Ltd.(Orange Category), Survey no.3/1, 3/2, P.T. sheet No.161, Village - Korlim, Mapusa - Goa.	5.1	Used/ Spent oil	8 litres/annum	To recycler registered with CPCB and having valid authorisation of SPCB.
129	M/s. All Seasons Beach Classic (Orange Category) H. No.286/B, Gaura Vaddo, Calangute - Goa.	5.1	Used/Spent Oil	20 liters/annum	To recycler registered with CPCB and having valid authorization of SPCB
130	M/s. Umiya Builders and Developers (Orange Category), Survey No.199/3, Near M. E. S. College, Dabolim Sancaole - Goa.	5.1	Used/spent oil	20 litres/annum	To recycler registered with CPCB and having valid authorization of SPCB
131	M/s. Mandovi Shipyard Pvt. Ltd. (MSE) (Orange Category), Survey No.307/1, Rassiam, Loutolim, Salcete - Goa.	33.3	Paint Drums	10 nos./month	To recycle registered with CPCB and having valid authorization of SPCB
132	M/s. Ranjana Overseas Pvt. Ltd.(Holiday Homes) (Orange Category), Survey No.211/1(Part), Varca Village, Salcete - Goa.	5.1	Used /Spent Oil	0.100 MTA	To recycler registered with CPCB and having valid authorization of SPCB
133	M/s. Vel-Vin Packaging Pvt. Ltd.(SSE) (Green Category), Shed No.D-2/14, Corlim Ind. Estate, Corlim, Ilhas - Goa.	5.1	Used/Spent Oil	5 liters/annum	To recycler registered with CPCB and having valid authorization of SPCB
		33.3	Drums & Ink Plastic Cans	120 nos/year	To recycler registered with CPCB & having valid authorization of SPCB
134	M/s. Glenmark Generics Ltd. (Harmone Plant), (LSE) (Orange Category) (Expansion of Production), Plot no. S-9, Colvale Ind. Estate, Colvale, Bardez - Goa.	5.1	Used /Spent Oil	200 kg/annum	To recycler registered with CPCB and having valid authorization of SPCB
		28.3	Off Specification products	500 kg/annum	Chemical-Physical Treatment followed by disposal in a secured landfill site having valid authorization from SPCB
		28.4	Date expired, discarded off specification drugs/ products/ laboratory chemicals	600 kg/annum	Chemical-Physical Treatment followed by disposal in a secured landfill site having valid authorization from SPCB
		34.3	E. T. P. Sludge	1000 kg/annum	Chemical-Physical Treatment followed by disposal in a secured landfill site having valid authorization from SPCB
135	M/s. Glenmark Pharmaceuticals Ltd.(MSE) (Orange Category), Plot No. 50, Kundaim Ind. Estate,	5.1	Used /Spent Oil	5 kg/ month	To recycler registered with CPCB and having valid authorization of SPCB
		28.3	Off specification products	150 kg/ annum	Chemical-Physical Treatment followed by

	Kundaim - Goa.				disposal in a secured landfill site having valid authorization from SPCB OR to be sent to M/s. Mumbai waste Management ltd. at Taloja for incineration.
		28.4	Date expired & discarded off specification product	150 kg/ annum	Chemical-Physical Treatment followed by disposal in a secured landfill site having valid authorization from SPCB. OR to be sent to M/s. Mumbai waste Management ltd. at Taloja for incineration.
		34.3	ETP sludge	10 kg/ month	Chemical-Physical Treatment followed by disposal in a secured landfill site having valid authorization from SPCB. OR to be sent to M/s. Mumbai waste Management ltd. at Taloja for incineration.
136	M/s. Ulka Seafoods Pvt. Ltd. (Unit I) (LSE) (Orange Category), Survey No.6/2 & 7/3, Orgao, Marcela - Goa.	5.1	Used /Spent Oil	100 litres/ month	To recycler registered with CPCB and having valid authorization of SPCB
137	M/s.Chowgule Industries Pvt. Ltd. (MSE) (Orange Category), Survey no.P.T.S. no.75, Chalta no.14, Opp. Damodar Temple, Fatorda, Margao - Goa.	5.1	Used/Spent oil	1200 liters/month	To recycler registered with CPCB and having valid authorization of SPCB
			Grease	10 kg/month	
		5.2	Oil filters	400 nos/month	To be sent to M/s Mumbai Waste Management Ltd. at Taloja for incineration
138	M/s. De Souza Hotels Resorts (Sun Village) (Orange Category), Survey No.157/34D, Saqwadi, Baga, Arpora, Bardez-Goa.	5.1	Used/Spent Oil	0.15 MT/Annum	To recycler registered with CPCB and having valid authorization of SPCB
139	M/s. Aparant Iron & Steel Pvt. Ltd. (LSE) (Red Category), Survey No. 46/3, Costi, Sanguem-Goa.	5.1	Used /Spent Oil	4.79 M.T/ year	To recycler registered with CPCB and having valid authorization of SPCB
		5.2	Cotton waste	800 kg/ year	To be sent to M/s Mumbai Waste Management Ltd. at Taloja for incineration
		33.3	Empty containers of oil, grease & paint	100 nos./ year	To be sent to M/s Mumbai Waste Management Ltd. at Taloja for incineration
140	M/s. Usha Adventure Hotels Ltd.(Varca Palms Beach Resort) (Orange Category), Survey No.164/1, Teen Murti, Fatrade, Varca, salcete - Goa.	5.1	Used/Spent oil	70 liters/annum	To recycler registered with CPCB and having valid authorization of SPCB
141	M/s. Prism Cement Limited (SSE) (Red Category), Plot No. 21/22,	5.1	Used /Spent Oil	50 litres/ annum	To recycler registered with CPCB and having valid authorization of SPCB

	137/1, Chowgule Ind. Estate, Sancoale - Goa.				
142	M/s. Rammi Khanna & Co. Ltd. (Orange Category), Survey no.43/8 & 72/19, Village Betalbatim, Salcete - Goa.	5.1	Used /Spent Oil	200 litres/Annum	To recycler registered with CPCB and having valid authorization of SPCB
143	M/s. Colmar Hotels Pvt. Ltd. (Colmar Beach Resort) (Orange Category), Survey No.40, Colva Beach, Salcete-Goa.	5.1	Used /Spent Oil	60 litres/annum	To recycler registered with CPCB and having valid authorization of SPCB
144	M/s. Aguada Management Company (Aguada Anchorage) (Orange Category), Survey No,103/IA, Next to Sinkerim Post Office, Sinkerim, Bardez - Goa.	5.1	Used /Spent Oil	50 litres/Annum	To recycler registered with CPCB and having valid authorization of SPCB
145	M/s. Joet Guest House (Orange Category), H.No.156, Bogmalo - Goa.	5.1	Used/Spent oil	90 liters/annum	To recycler registered with CPCB and having valid authorization of SPCB
146	M/s. Rebello International Pvt. Ltd. (SSE) (Orange Category), Plot No.D-10, - 11, Madkaim Ind. Estate, Madkaim, Ponda - Goa.	5.1	Used/Spent oil	20 liters/annum	To recycler registered with CPCB and having valid authorization of SPCB
147	M/s. Marigold Hotel (Orange Category), Chalta No.101, 101A, of P.T. Sheet No.46, Hotel Ruchi Lane, Before Patto Bridge, Panaji - Goa.	5.1	Used/Spent oil	50 liters/annum	To recycler registered with CPCB and having valid authorization of SPCB
148	M/s. Devyani Food Industries Pvt. Ltd. (SSE) (Orange Category) (EXPANSION of Production & ETP) Survey No.295, NH-4A, Tisk, Usgao, Ponda-Goa.	34.3	ETP Sludge	2000 kg/annum	Chemical-Physical Treatment followed by disposal in a secured landfill site having valid authorization from SPCB
149	M/s. GKB - Vision Limited (MSE) (Orange Category), Plot No.27-28, Pilerne Ind. Estate, Saligao, Bardez - Goa.	5.1	Used/Spent oil	200 liters/annum	To recycler registered with CPCB and having valid authorization of SPCB
150	M/s. Nishita Industries (SSE) (Red Category), Plot No. A-9 & A - 10, Madkaim Ind. Estate, Madkaim - Goa.	34.3	ETP Sludge	50 kg/annum	Chemical-Physical Treatment followed by disposal in a secured landfill site having valid authorization from SPCB
151	M/s. Pravinkumar Gosalia (Shakti Bauxite Mine) (MSE) (Red Category) T.C. No.4/NSD/BAUX, Villages Betul, Naqueri, Quitol, Morpila, Fatorpa & Velim, Taluka Quepem, South - Goa.	5.1	Used / Spent Oil	50 kg/ annum	To recycler registered with CPCB and having valid authorization of SPCB

152	M/s. Shail Foods & Packaging Pvt. Ltd. (SSE) (Green Category), Plot No.L-111, Verna Ind. Estate, Verna, Salcete - Goa.	5.1	Used/Spent oil	4 liters/month	To recycler registered with CPCB and having valid authorization of SPCB
153	M/s. Goldfied Fragrances Pvt. Ltd. (SSE) (Orange Category), Plot No.85, Pilerne Ind. Estate, Pilerne, Bardez - Goa.	5.1	Used/Spent Oil	60 liters/annum	To recycler registered with CPCB and having valid authorization of SPCB
		33.3	Discarded Containers	1300/annum	To recycler registered with CPCB and having valid authorization of SPCB.
154	M/s. Silicon Cortech Pvt. Ltd. (SSE) (Orange Category), Plot No. L 103-106, Verna Ind. Estate, Verna, Salcete - Goa.	5.1	Used/Spent Oil	100 liters/month	To recycler registered with CPCB and having valid authorization of SPCB
		5.2	Cotton waste	30 kg/month	To be sent to M/s Mumbai Waste Management Ltd. at Taloja for incineration
155	M/s.Dynaquip Engineers (SSE) (Orange Category), Plot no.D2 - 32/33, Tivim Ind. Estate, Karaswada, Mapusa - Goa.	5.1	Used/spent Oil	120 liters/annum	To recycler registered with CPCB and having valid authorization of SPCB
		33.3	Discarded Containers	2 MT/annum	To recycler registered with CPCB and having valid authorization of SPCB
156	M/s. Anaya Fruit Products (SSE) (Green Category) Plot No.62, Pilerne Ind. Estate, Bardez - Goa.	5.1	Used Oil/Spent Oil	16 Litres/Annum	To recycler registered with CPCB & having valid authorization of SPCB.
157	M/s. Inorbit Malls (I) Pvt. Ltd. (VIVA) (Orange Category), Survey No.14/1-A & 15/1-A, Panelim, Old-Goa, Tiswadi - Goa.	5.1	Used Oil/Spent Oil	20 Litres/Annum	To recycler registered with CPCB & having valid authorization of SPCB
158	M/s. Bell Tower Resorts Pvt. Ltd. (The Retreat By Zuari) (Orange Category), Survey No.223/1,222/2, 222/6 (Part) & 327/5, Pedda - Uttordoxi, Varca, Salcete - Goa.	5.1	Used /Spent Oil	150 kg/ annum	To recycler registered with CPCB and having valid authorization of SPCB
159	M/s. Casa De Cajino (Orange Category), Survey No.164/12, E 3/40 C, Tivai Vaddo, Calangute - Goa.	5.1	Used/Spent oil	20 liters/annum	To recycler registered with CPCB and having valid authorization of SPCB
160	M/s. Goa Shipyard Ltd., (Unit II) (MSE) (Orange Category), Plot No. 8 & 9, sancaole Ind. Estate, Sancaole - Goa.	5.1	Used/Spent Oil	85 liters/annum	To recycler registered with CPCB and having valid authorization of SPCB
		33.3	Empty Containers of Resin, gelcoat, Forms, sealants	115 kg/month	To recycler registered with CPCB and having valid authorization of SPCB
161	M/s.Amigo Plaza (Orange Category), Survey No.40/1- A, 4th Ward, Colva, Salcete - Goa.	5.1	Used/Spent oil	15 liters/annum	To recycler registered with CPCB and having valid authorization of SPCB
162	M/s. Quality Exports (Unit - II) (SSE) (Orange Category), Plot no.SB 68,	5.1	Used/Spent oil	200 liters/annum	To recycler registered with CPCB and having valid authorization of SPCB

	69, 70 & SB 71, Cuncolim Ind. Estate, Cuncolim, Salcete-Goa.				
163	M/s.Prateek Alloys Pvt. Ltd. (SSE), (Red Category), Plot no.107, 108, Kundaim, Ind. Estate, Kundaim - Goa.	5.1	Used/Spent oil	40 liters/annum	To recycler registered with CPCB and having valid authorization of SPCB
164	M/s. Siddharth Milk & Milk Products Pvt. Ltd. (SSE) (Red Category), Plot no. 83 & 84, Kundaim Ind. Estate, Kundaim - Goa.	5.1	Used Oil/Spent Oil	0.05 MTA	To recycler registered with CPCB & having valid authorization of SPCB.
165	M/s. Sicgil India Limited (MSE) (Green Category), survey No.188/1, Plot No.A-2, P.O.11, Zuarinagar - Goa.	5.1	Used Oil/Spent Oil	45 Litres/Annum	To recycler registered with CPCB & having valid authorization of SPCB.
166	M/s. Manipal Hospital Goa (Red Category), Survey No.264/1, Dr. E. Borges Road, Dona Paula, Goa.	5.1	Used/Spent oil	50 liters/annum	To recycler registered with CPCB and having valid authorization of SPCB
167	M/s.Chalston Hotel (Orange Category), Survey No.207, Cobra Vaddo, Calangute - Goa.	5.1	Used /Spent Oil	0.04 MTA	To recycler registered with CPCB and having valid authorization of SPCB
168	M/s. Borkar Packaging Pvt. Ltd. (LSE) (Green Category), Plot No. P-1 B, Margao Ind. Estate, St-Jose de Areal, Salcete - Goa.	33.3	Empty Paint Containers	1500 nos/annum	To recycler registered with CPCB and having valid authorization of SPCB
169	M/s. Glynwed Pipe Systems (India) Pvt. Ltd. (LSE) (Orange Category), Plot No. L-148 & L-149, Verna Ind. Estate, Verna - Goa.	5.1	Used/Spent oil	1000 liters/annum	To recycler registered with CPCB and having valid authorization of SPCB
170	M/s. Mohidin Metal Industries (SSE) (Red Category), Survey No. 277, 278, 287, 288 & 294, Rassaim, Loutolim, Salcete - Goa.	5.1	Used /Spent Oil	1.5 Tones/Annum	To recycler registered with CPCB and having valid authorization of SPCB
171	M/s. Merck Limited (LSE) (Red Category), Survey no.11/1, Marvasado, Usgaon, Ponda - Goa.	5.1	Used /Spent Oil	4 tons	To recycler registered with CPCB and having valid authorization of SPCB
		20.2	Spent Solvents	52 tons	To recycler registered with CPCB and having valid authorization of SPCB OR To be sent to M/s Mumbai waste Management Ltd., Taloja for incineration
		28.4	Date expired/ discarded and off specification drugs/medicines	14 tons	Chemical-Physical Treatment followed by disposal in a secured landfill site having valid authorization from SPCB
		33.3	Discarded containers/	5 tons	Wash water treated in

			barrels/ liners used for hazardous chemicals		Effluent Treatment Plant & decontaminated drums given for recycling.
		34.3	Chemical sludge from ETP	13 tons	Chemical-Physical Treatment followed by disposal in a secured landfill site having valid authorization from SPCB
		C14/D6	Spent acetic acid conc. & Zinc salt mixture	218 tons	To a party having valid authorisation and consent from SPCB or Chemical-Physical Treatment followed by disposal in a secured landfill site having valid authorization from SPCB
		D6	Organic oxygen compounds (acetic acid)	10 tons	To a party having valid authorisation and consent from SPCB OR To be sent to M/s Mumbai waste Management Ltd., Talaja for incineration
		D2	Inorganics Acids (Spent Ortho Phosphoric acid)	70 tons	To a party having valid authorisation and consent from SPCB OR Chemical-Physical Treatment followed by disposal in a secured landfill site having valid authorization from SPCB
		C8	G.B. Oil high boiler (plant extract)	15 tons	
			Aromatized high boiler of GB Oil (Plant extract)	23 tons	To a party having valid authorisation and consent from SPCB OR Chemical-Physical Treatment followed by disposal in a secured landfill site having valid authorization from SPCB
			Transformed GB Oil (Plant extract)	20 tons	
		C13	Sodium hydrogen sulphide	82 tons	To a party having valid authorisation and consent from SPCB OR Chemical-Physical Treatment followed by disposal in a secured landfill site having valid authorization from SPCB
		28.5	DEHM/ Oxyne Forerun	27 tons	To be sent to M/s Mumbai waste Management Ltd., Talaja for incineration
			Mother liquor residue	16.5 tons	
		28.1	Oxyne Residue	13.8 tons	To be sent to M/s Mumbai waste Management Ltd., Talaja for incineration OR Chemical-Physical Treatment followed by disposal in a secured landfill site having valid authorization from SPCB
			DEHM Residue	5.4 tons	

		6.2	Zinc dust	7.5 tons	To recycler registered with CPCB and having valid authorization of SPCB
172	M/s. Lafarge Aggregates & Concrete India Pvt. Ltd. (MSE) (Red Category), Plot no.61-A, Pilerne Ind. Estate, Pilerne, Bardez - Goa.	5.1	Used /Spent Oil	0.05 MT/Annum	To recycler registered with CPCB and having valid authorization of SPCB
173	M/s. Excel Prints & Packs (SSE) (Green Category), Shed No. P/43, Mapusa Ind. Estate, Mapusa, Bardez - Goa.	5.1	Used /Spent Oil	80 litres/ annum	To recycler registered with CPCB and having valid authorization of SPCB
		33.3	Ink tins	30 nos./ month	To be sent to M/s Mumbai Waste Management Ltd. at Taloja for incineration
174	M/s. Lemon Tree Amarante Beach Resort (A Unit of Krizm Hotels Pvt. Ltd.) (Orange Category), Survey No. 135/1,135/2,135/3,138/13-B & 138/17, Vadi, Candolim, Bardez - Goa.	5.1	Used/Spent oil	0.05 MT/annum	To recycler registered with CPCB and having valid authorization of SPCB
175	M/s. Western India Shipyard Ltd. (LSE) (Red Category), P.O. Box No.21, Mormugao Harbour, Mormugao - Goa.	5.1	Used /Spent Oil	120 MT/ annum	To recycler registered with CPCB and having valid authorization of SPCB
		5.2	Waste oil		
176	M/s. Kamat Construction & Resorts Pvt. Ltd. (Unit : Vivanta By Taj) (Orange Category), Chalta No.30, 30A, 31-34 of P.T. Sheet No.65 and Chalta No.3 & 4 of P.T. Sheet No.78, St.Inez, Panaji - Goa.	5.1	Used /Spent Oil	80 litres/ annum	To recycler registered with CPCB and having valid authorization of SPCB
177	M/s. Bharat Petroleum Corporation Ltd. (LPG Bottling Plant) (MSE) (Orange Category), Plot No. M-19 to M-35, Phase III - B, Verna Ind. Estate, Verna, Salcete - Goa.	5.1	Used /Spent Oil	300 litres/ annum	To recycler registered with CPCB and having valid authorization of SPCB
178	M/s. Machado & Sons Agents & Stevedores Pvt. Ltd. (SSE) (Green Category), Plot No.L-10, Cuncoim Ind. Estate, Cuncoim, Salcete - Goa.	5.1	Used/Spent oil	15 litres/Annum	To recycler registered with CPCB & having valid authorization of SPCB.
179	M/s. Goan Hotels & Clubs Pvt. Ltd. (Hotel - Grand Hyatt) (Orange Category), Survey No.12/1, 12/2 & 99/2, Curca, Bambolim, Tiswadi - Goa.	5.1	Used/Spent oil	8 MT/annum	To recycler registered with CPCB and having valid authorization of SPCB
180	M/s. Libox Chem (India) Pvt. Ltd. (SSE) (Red Category), Plot no.112,	5.1	Used / Spent Oil	0.100 MTA	To recycler registered with CPCB and having valid authorization of SPCB

	Kundaim Ind. Estate, Kundaim - Goa.				
181	M/s. Fahrenheith Hotels and Resorts (Unit of Shree Par Frangrance Pvt. Ltd.) (Orange Category), Survey No.239/15, 239/16, Baga, Calangute - Goa.	5.1	Used/Spent oil	50 liters/annum	To recycler registered with CPCB and having valid authorization of SPCB
182	M/s. The Indian Hotels Company Limited (Unit : Vivanta By Taj-Fort Aguada, Goa) (Orange Category), Survey No.98/0, 104/1 (Part), Sinquerim, Bardez - Goa.	5.1	Used/Spent oil	890 liters/annum	To recycler registered with CPCB and having valid authorization of SPCB
			HSD Sludge	50 liters/annum	
		3.3	Sludge & Filters contaminated with oil	50 nos./annum	To be sent to M/s Mumbai Waste Management Ltd. at Taloja for incineration
183	M/s. Sesa Industries Ltd. (Pig Iron Plant)(LSE) (Red Category), Survey No.30 (Part), 41, 42/1, 42/1, 27 (Part), Amona Village, P.O. Marcela, Bicholim - Goa.	5.1	Used /Spent Oil	15,000 litres/ annum	To recycler registered with CPCB and having valid authorization of SPCB
		5.2	Oil soaked cotton rags/ wastes	5000 kg/ annum	To be incinerated in the Coke Ovens
		33.3	Used/ discarded paint tins	5000 nos./ annum	To recycler registered with CPCB and having valid authorization of SPCB
184	M/s. Nazri Resorts (Orange Category), Survey No.319/2, 3, 4, 5 & 12, Saunta Vaddo, Calangute - Goa.	5.1	Used/oil	0.100 MTA	To Recycler registered with CPCB & having authorization from SPCB
185	M/s. BLS Polymers Ltd. (SSE) (Red Category), Plot No. M-36, 37, 40-43, Phase III B, Verna Ind. Estate, Verna, Salcete - Goa.	5.1	Used/Spent oil	200 liters/annum	To recycler registered with CPCB and having valid authorization of SPCB
186	M/s. Siemens Ltd. (MSE) (Green Category), Plot No. L-6, Verna Ind. Estate, Verna, Salcete - Goa.	5.1	Used /Spent Oil	10,000 litres/ annum	To recycler registered with CPCB and having valid authorization of SPCB
187	M/s. Renuka Tyres & Treads (SSE) (Orange Category), Shed No. D-23, Honda Ind. Estate, Honda, Sattari - Goa.	5.1	Used/Spent oil	0.02 MT/annum	To recycler registered with CPCB and having valid authorization of SPCB.
		X-X08	Rubber	25 MT/annum	Sale to authorized recycler registered with CPCB
188	M/s. Unichem Laboratories Limited (LSE) (Orange Category), Plot No.12 to 16, Pilerne Ind. Estate, Pilerne, Bardez - Goa.	5.1	Used /Spent Oil	1 MT	To recycler registered with CPCB and having valid authorization of SPCB
		28.4	Date expiry products, off-specification products	1 MT	Chemical-Physical Treatment followed by disposal in a secured landfill site or incineration having valid authorization from SPCB OR To be sent to M/s Mumbai Waste Management Ltd. at Taloja for incineration
		28.5	Spent organic solvents	1 MT	Chemical-Physical Treatment followed by disposal in a secured landfill site or incineration having valid authorization from

					SPCB OR To be sent to M/s Mumbai Waste Management Ltd. at Taloja for incineration
		33.3	Discarded containers/liners	50 Nos	Wash water treated in Effluent Treatment Plant & decontaminated drums given for recycling.
		34.2	Used ion exchange material	1 MT	Chemical-Physical Treatment followed by disposal in a secured landfill site or incineration having valid authorization from SPCB OR To be sent to M/s Mumbai Waste Management Ltd. at Taloja for incineration
		34.4	Effluent Treatment Plant Sludge	1 MT	Chemical-Physical Treatment followed by disposal in a secured landfill site or incineration having valid authorization from SPCB OR To be sent to M/s Mumbai Waste Management Ltd. at Taloja for incineration
190	M/s. Mandovi Metals Pvt. Ltd. (SSE) (Red Category), Plot No.200-A, Kundaim Ind. Estate, Kundaim - Goa.	5.1	Used /Spent Oil	30 litres/ annum	To recycler registered with CPCB and having valid authorization of SPCB
191	M/s. Varun Beverages (International) Limited (LSE) (Orange Category), Survey No.274/3, Arlem, P.O. Raia, Salette - Goa.	5.1	Used/Spent oil	300 liters/annum	To recycle registered with CPCB and having valid authorization of SPCB
		34.3	ETP Sludge	400 kg/annum	Chemical-Physical Treatment followed by disposal in a secured landfill site having valid authorization from SPCB
192	M/s. Praka Engineering (SSE) (Orange Category), Survey No.217, Murdi, Pilgaon, Bicholim - Goa.	33.3	Empty paint drums	80-100 nos./annum	To recycler registered with CPCB and having valid authorization of SPCB
193	M/s. Priya Engineering Works (SSE) (Orange Category), Survey No.319/2, Village Rassaim, Loutolim, Salcete - Goa.	33.3	Empty paint tins	0.1 MT/annum	To recycler registered with CPCB and having valid authorization of SPCB
194	M/s. West Coast Shipyard (SSE) (Red Category), Survey No. 306, Village Rassaim, Loutolim, Salcete - Goa.	5.1	Used /Spent Oil	20 litres/ month	To recycler registered with CPCB and having valid authorization of SPCB
		33.3	Empty paint drums	50 nos./ annum	To recycler registered with CPCB and having valid authorization of SPCB
195	M/s. S. Chems & Allied Producers Pvt. Ltd. (SSE) (Orange Category), Plot No.L-12, Cuncolim - Ind. Estate, Cuncolim - Goa.	5.1	Used/Spent oil	0.001 MT/annum	To recycler registered with CPCB and having valid authorization of SPCB
196	M/s. Asian Magnetic Devices Pvt. Ltd. (SSE),	B-7	TC wire (Tin Copper wire)	300 kg/ month	To recycler registered with CPCB and having valid

	(Green Category), Plot No. L- 84, Verna Ind. Estate, Verna, Salcete - Goa.	B-10	Solder Dross	160 kg/ month	authorization of SPCB To recycler registered with CPCB and having valid authorization of SPCB
		34.3	ETP sludge	100 kg/ month	Chemical-Physical Treatment followed by disposal in a secured landfill site having valid authorization from SPCB
197	M/s. Wallace Pharmaceuticals Pvt. Ltd. (SSE) (Orange Category), Survey No. 134/12, Nirancal Road, Curti, Ponda - Goa.	5.1	Used /Spent Oil	100 kg/ annum	To recycler registered with CPCB and having valid authorization of SPCB
		5.2	Cotton Waste	110 kg/ annum	To be sent to M/s Mumbai Waste Management Ltd. at Taloja for incineration
		28.4	Date expired/ discarded medicines/ drugs	15 kg/ annum	Chemical-Physical Treatment followed by disposal in a secured landfill site having valid authorization from SPCB
		33.3	Discarded containers	150 nos./ annum	Wash water treated in Effluent Treatment Plant & decontaminated drums given for recycling.
		34.3	Chemical sludge from ETP	100 kg/ annum	Chemical-Physical Treatment followed by disposal in a secured landfill site having valid authorization from SPCB
198	M/s. Western Beverages Pvt. Ltd. (SSE) (Green Category), Plot No. M-10, Cuncolim Ind. Estate, Cuncolim, Salcete - Goa.	5.1	Used /Spent Oil	100 kg/ annum	To recycler registered with CPCB and having valid authorization of SPCB
		34.3	Effluent Treatment Plant Sludge	700 kg/ annum	Chemical-Physical Treatment followed by disposal in a secured landfill site having valid authorization from SPCB
199	M/s. Goa Energy Pvt. Ltd.(Waste Heat Recovery Power Plant) (LSE) (Red Category), Survey No.43/1, 44/4 & 44/5 of Amona Vialge, Survey No.207(part) of Navelim Village, Bicholim - Goa.	5.1	Used /Spent Oil	1000 litres/annum	To recycler registered with CPCB and having valid authorization of SPCB
		23.1	Wastes/residues containing oil	1000 kg/annum	To be sent to M/s Mumbai Waste Management Ltd. at Taloja for incineration
		33.3	Discarded containers/barrel/liners	1000 nos/annum	Stored within premises and than to be disposed in secured landfill site.
200	M/s. Shinde Packaging Private Ltd. (SSE) (Green Category), Plot No. L-85, Phase II - E, Verna Ind. Estate, Verna -Goa.	33.3	Ink tins	4 nos/month	To be sent to M/s Mumbai Waste Management Ltd. at Taloja for incineration
201	M/s. Goa Medicare Devices Pvt. Ltd.(SSE) (Orange Category), Plot No. M-1, Phase III - B, Verna Ind. Estate, Verna - Goa.	5.1	Used/Spent oil	1.5 KL/Annum	To recycler registered with CPCB and having valid authorization of SPCB
202	M/s. Fomento Resorts & Hotels Ltd. (Unit: Cidade	5.1	Used /Spent Oil	150 kg/ annum	To recycler registered with CPCB and having valid

	De Goa) (Orange Category), Survey No.245/1 & 246/1, Vainguinim Beach, Dona-Paula, Goa.				authorization of SPCB
		34.3	STP Sludge	300 kg/ annum	Chemical-Physical Treatment followed by disposal in a secured landfill site having valid authorization from SPCB
203	M/s.Andrew Telecommunications India Pvt. Ltd. (LSE) (Orange Category), Plot no.N-2, Phase IV, Verna Ind. Estate, Verna -Goa.	5.1	Used /Spent Oil	1000 KL/annum	To recycler registered with CPCB and having valid authorization of SPCB
		5.2	Wastes / residue containing oil	1000 KL/annum	To recycler registered with CPCB and having valid authorization of SPCB OR to be sent M/s. Mumbai waste management ltd, taloja for incineration
		12.1	Acid residues	6000 KL/annum	Chemical-Physical Treatment followed by disposal in a secured landfill site having valid authorization from SPCB OR to be sent M/s. Mumbai waste management ltd, taloja for incineration /To ACC wadi work for co processing in cement kiln.
		12.2	Alkali residues	5000 KL/annum	Chemical-Physical Treatment followed by disposal in a secured landfill site having valid authorization from SPCB OR to be sent M/s. Mumbai waste management ltd, taloja for incineration /To ACC wadi work for co processing in cement kiln
		12.4	Sludge from bath containing organic solvent	2000 KL/annum	Chemical-Physical Treatment followed by disposal in a secured landfill site having valid authorization from SPCB OR to be sent M/s. Mumbai waste management ltd, taloja for incineration /To ACC wadi work for co processing in cement kiln
		12.5	Phosphate sludge	6000 KL/annum	Chemical-Physical Treatment followed by disposal in a secured landfill site having valid authorization from SPCB OR to be sent M/s. Mumbai waste management ltd, taloja for incineration /To ACC wadi work for co processing in cement kiln
		12.9	Chemical sludge from waste water treatment Acid)	100 KL/annum	Chemical-Physical Treatment followed by disposal in a secured landfill site having valid

					authorization from SPCB
		22.1	Waste and residues	4000 Kg/annum	Chemical-Physical Treatment followed by disposal in a secured landfill site having valid authorization from SPCB
		22.2	Filters residue	500 kg/ annum	To be sent to M/s Mumbai waste Management Ltd., Taloja for incineration
		33.1	Chemical containing residue from decontamination and disposal	1500 KL/ annum	To be sent to M/s Mumbai waste Management Ltd., Taloja for incineration
		33.3	Discarded barrels/ containers/ liners	3000 KL/ annum	Wash water treated in Effluent Treatment Plant & decontaminated drums given for recycling.

Annexure IX

Table 9: STATUS OF BIO-MEDICAL WASTE GENERATED DURING THE YEAR 2012 - 2013

Health Care Facilities (HCF) under Schedule VI Health Care Facilities (HCF) under Schedule VI of the Rules	Total no. of HCF	Total no. of Beds	No. of CBWT F/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 Wtreated kg/day	No. of Health Care Facilities violated BMW Rules	Total no. of Show Cause Notices issued to defaulting HCF	
								Incinerator		Autoclave	Microwave	Hydroclave	Shredder					
								With Air Pollution Control Device (APCD)	Without APCD									
A) Hospitals & Nursing homes in town with population of 30 lakhs and above	←								Not Applicable						→			
B) Hospitals & Nursing homes in town with population below 30 lakhs:																		
a) with 500 beds and above																		
b) with 200 beds but less than 500 beds	1																	
	1																	
c) with 50 beds but less than 200 beds		45	NIL	NIL	1	324	323	NIL	1	175	1		4950.9	4950.9	1	1		
d) with less than 50 beds	12	29																
	29	4																
C) All other institutions generating bio-medical waste not included in A) and B)	8																	
Total	31	45	NIL	NIL	1	317	316	NIL	1	175	1		4950.9	4950.9	1	1		
	6	29																

ANNEXURE X

Table 10: Annual Returns of Lead Acid Batteries from April 2012-March 2013

Table A - Status of Lead Acid Battery Manufacturer, Reconditioner, Assembler											
Sr. No.	Type of category	Total No.	Production of LAB		Sale of LAB		Total collection of Used LAB		Annual Return s submitt ed	Action Taken	Remarks
			Nos	Weight (MT)	Nos	Weight (MT)	Nos	Weight (MT)			
1	Manufactu re	15	0	0	0	0	141 03	103.82	Yes	Units which have not filed the annual returns have been directed to so.	Battery Scrap has been sent to 1. Sterling Lead Pvt. Ltd, Kolhapur, 2. Krishna Metal Refinery, Thane, 3. Chloride Alloys Ltd, 4. Chloride Metals Ltd, 5. Associated Pigments.
2	Reconditio ner	0									
3	Assembler	0									

Table B - Status of Lead Acid Battery Dealer								
Sr.No.	Total number of dealers	Sales of LAB		Total collection of used LAB		Annual Returns Submitted	Action taken	Remarks
		Nos	Weight (MT)	Nos	Weight (MT)			
1	14	22512	149.58	4224	24.017	Yes	Units which have not filed the annual returns have been directed to so.	Used batteries sent to :1. Sterling Lead Pvt Ltd, Kolhapur, Exide Industries, Margoa, 3. Germania Batteries, Corlim 4. Amit Sales Corporation.

Table C - Status of Lead Acid Battery Importer								
Sr.No.	Total number of dealers	Sales of LAB		Total collection of used LAB		Annual Returns Submitted	Action taken	Remarks
		Nos	Weight (MT)	Nos	Weight (MT)			
1	NIL							

Table D - Status of Lead Acid Battery Bulk Consumer, Autioneer						
Sr.No.	Total number of Bulk Consumer, Autioneer	Total collection of used LAB		Annual Returns Submitted	Action taken	Remarks
		Nos	Weight (MT)			
1	33	2290	85.01	Yes	Units which have not filed the annual returns have been directed to so.	Used batteries sent to : 1. M/s Quantum Power solutions, 2. Jayval Enterprises, Malur, 3. M/s Santosh, 4. M/s Gem Battery Centre, 5. Sanyo & Sanyo, 6. Superlife Battery Service, 7. Solar Enterprises, 8. Krishna Metal Refinery.

Table E - Status of Lead Acid Battery Recycler						
Sr.No.	Total number of Recycler	Total collection of used LAB		Annual Returns Submitted	Action taken	Remarks
		Nos	Weight (MT)			
1	NIL					