

# ANNUAL REPORT

2005 - 2006



**MEGHALAYA STATE POLLUTION CONTROL BOARD**

**'ARDEN', LUMPYNGGAD, SHILLONG - 793014**



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## 1 INTRODUCTION

The State Board for Prevention and Control of Water Pollution, Meghalaya was constituted by the Government of Meghalaya on the Sixteenth Day of November, Nineteen Eighty Three in pursuance of the Water (Prevention & Control of Pollution) Act, 1974. The Board was later renamed as Meghalaya State Pollution Control Board in 1988. After the enactment of the Air (Prevention & Control of Pollution) Act, 1981, the enforcing responsibility of the Act was entrusted to the Board. The functions of the Board are as laid down under Section 17 of the Water (Prevention and Control of Pollution) Act, 1974 and Section 17 of the Air (Prevention and Control of Pollution) Act, 1981.

Besides the enforcement of the Water and the Air Act, the Board is also enforcing the following Acts, Rules and Notifications:

- The Water (Prevention and Control of Pollution) Cess Act, 1977, and as amended by Amendment Act in 1991.
- The Water (Prevention and Control of Pollution) Cess Rules, 1978.
- The Hazardous Waste (Management and Handling) Rules, 1989.
- The Manufacture, Storage and Import of Hazardous Chemicals Rules, 1989.
- The Manufacture, Use, Import, Export & Storage of Hazardous Micro organism or Cells Rules, 1989.
- The Public Liability Insurance Act, 1991.
- The Environmental Impact Assessment Notification, 1994.
- The Chemical Accidents (Emergency Planning, Preparedness & Response) Rules, 1996.
- The Bio-Medical Wastes (Management & Handling) Rules, 1998
- The Recycled Plastics Manufacture and Usage Rules, 1999.
- The Fly Ash Notification, 1999.
- The Noise Pollution (Regulation and Control) Rules, 2000.
- The Ozone Depleting substances (Regulation) Rules, 2000.
- The Municipal Solid Wastes (Management & Handling) Rules, 2000.
- The Batteries (Management & Handling) Rules 2001.

The Board has been functioning with 51 (Fifty) Staff as on 31-03-2005 against a sanctioned strength of 99 (Ninety Seven). The details of staff position are given at **Annexure-III**. The organizational chart of the Board is given at **Annexure-II**.

The Central Office of the Board is located at Shillong. At present, the Board does not have any Regional or District Offices. The Central Office is responsible for framing general policies relating to enforcement of the Acts and Rules. It also looks after the general administration and coordination with other agencies. Besides, it takes up public awareness programmes on matters relating to environment protection and pollution control. The Central Laboratory is well –equipped and carries out analysis of samples of water, waste water, stack emission, ambient air, bacteriological tests etc.

The other activities of the Central Office of the Board are:

- Inspection of industries and local bodies.
- Monitoring the quality of water and wastewater.
- Monitoring the quality of ambient air and stack emissions.
- Inspection of sites proposed for setting up of industries to verify the suitability of the same from environmental point of view.
- Water bodies monitoring under National Water Quality Monitoring (NWQM) Programme.
- Ambient air quality monitoring under National Air Monitoring Programme (NAMP).
- Offering guidance to industries and local bodies on statutory provisions.
- Issue of "Consents to Establish" and "Consents to Operate" in respects of industries, mining projects specified developmental projects and municipal bodies.
- Waste Management under E.P. Act:
  - ✓ Hazardous Waste Management
  - ✓ Identification of Sources
  - ✓ Characterization & Quantification of Wastes
  - ✓ Enforcement of provisions of the Rules
  - ✓ Monitoring of compliance to standards
- Bio-Medical Waste Management:
  - ✓ Identification of Sources
  - ✓ Characterization & Quantification of Wastes
  - ✓ Enforcement of Provisions of the Rules
  - ✓ Monitoring of Compliance to Standards
- Municipal Solid Waste Management Act:
  - ✓ Identification of Sources
  - ✓ Characterization & Quantification of Wastes
  - ✓ Enforcement of provisions of the Rules
  - ✓ Monitoring of Compliance to Standards
- Batteries Management:
  - ✓ Identification of Sources
  - ✓ Characterization & Quantification of Wastes
  - ✓ Enforcement of Provisions of the Rules
  - ✓ Monitoring of Compliance to Standards
- Plastic Management:

- ✓ Identification of Sources
  - ✓ Characterization & Quantification of Wastes
  - ✓ Enforcement of Provisions of the Rules
  - ✓ Monitoring of Compliance to Standards
- Noise Pollution Management:
    - ✓ Identification of Sources in respect of industries
    - ✓ Enforcement of Provisions of the Rules in respect of industries
    - ✓ Monitoring the Compliance of Standards by industries
    - ✓ Monitoring of ambient noise in Industrial/Commercial/Residential areas

## 2 CONSTITUTION OF THE BOARD AND CHANGES THEREIN

The State Government nominates the Members of Meghalaya State Pollution Control Board. The Board was constituted under Section 4 of the Water (Prevention & Control of Pollution) Act, 1974 vide Notification No. PHE.161/83/1 Dtd. the 16<sup>th</sup> November, 1983. The last reconstitution was notified out in May 1998 vide Notification No. PHE.161/83/178 Dtd. the 21<sup>st</sup> May 1998. However, the three Non-officials Members were re-notified vide Notification NO.PHE.161/83/187 Dtd. the 24<sup>th</sup> March, 1999 & NO.PHE.161/83/205 Dtd. the 5<sup>th</sup> January, 2001.

The Board consists of 17(seventeen) Members nominated by the State Government as per provisions laid down in Sub-Section (2) of Section 4 of the Water (Prevention and Control of Pollution) Act 1974. Besides the Chairman and the Member Secretary, there are 5(five) official Members representing various State Government Departments, 5(five) Members representing Local Authorities, 2(two) Members representing the Co-operatives and Corporations owned, managed or controlled by the State Government and 3(three) Non-official Members. The list of the Members of the Board is appended at **Annexure-I**

## 3 MEETINGS OF THE BOARD WITH MAJOR DECISIONS

During the year 2005-2006, the Board conducted the following Meetings: -

SL NO.	MEETING NO.	DATE	VENUE	NO. OF MEMBERS ATTENDING THE MEETING
1.	44 <sup>th</sup> Board Meeting	12-05-2005	Office Chamber of the Chairman, MSPCB	10 (Ten)
2.	45 <sup>th</sup> Board Meeting	05-10-2005	Office Chamber of the Chairman, MSPCB	7 (Seven)

3.	46 <sup>th</sup> Board Meeting	05-12-2005	Office Chamber of the Chairman, MSPCB	9 (Nine)
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*The following decisions were taken in the above Meetings: -*

#### **44<sup>th</sup> BOARD MEETING**

- ✓ The Board decided that construction of the remaining floors of the Laboratory Building should be carried out based on the current SOR 04-05 of PWD (B).
- ✓ The Board endorsed the completion of the Report on Bio-Mapping of Rivers & Streams of Meghalaya.
- ✓ The Board decided that CPCB & other Pollution Control Boards should be consulted with regard to the amendment of the Meghalaya Water (Prevention & Control of Pollution) Rules, 1996 and Meghalaya Air (Prevention & Control of Pollution) Rules, 1998.
- ✓ The Board approved the proposal to request the Govt. to keep adequate budget provision in the PHE Budget for maintenance of the laboratory equipments.
- ✓ The Board approved the following proposals:
  - State Water Quality Monitoring Programme
  - State Drinking Water Quality Monitoring Programme
  - State Ambient Air Quality Monitoring Programme
  - Regular Monitoring of Ambient Air Quality in sensitive areas of the State
  - Inventory of drains in Shillong and other District Headquarters in terms of waste water quality and pollution load
  - Mass Awareness Campaign

#### **45<sup>th</sup> BOARD MEETING**

- ✓ The Board approved the proposal for appointment to the post of Scientist 'C' on officiating basis.
- ✓ The Board approved the proposal for creation of 2(two) posts of Junior Accountant.
- ✓ The Board approved the proposal for construction of a NAMP Station at MUDA Shopping Complex.

#### **46<sup>th</sup> BOARD MEETING**

- ✓ The Board decided that fresh advertisement should be called for the vacant of Asstt. Environmental Engineer.
- ✓ The Board ratified the action taken by the Promotion Committee.
- ✓ The Board decided that the office of the Board should work hand in hand with the Transport Deptt. to regulate vehicular emission in Shillong city.
- ✓ The board approved the proposal for appointment of a Govt. Analyst and Board's Analyst.

- ✓ The Board approved the proposal to enhancement of testing fees for vehicular exhaust emission testing.
- ✓ The Board approved the proposal for pricing of the MSPCB's publications.
- ✓ The Board delegated powers of entry & inspection of industrial plants / waste management plants, etc. to the Sr. Environmental Engineer / Environmental Engineer / Asstt. Environmental Engineer / Jr. Environmental Engineer / Sr. Scientist / Scientist 'C' / Scientist 'B' / Senior Scientific Assistant.

#### 4 COMMITTEES CONSTITUTED BY THE BOARD AND THEIR ACTIVITIES

The "Consent Committee" and the "Purchase Committee" of the Board are the ones which were last reconstituted on the 20<sup>th</sup> November, 1998 and the 16<sup>th</sup> November, 2000 respectively. The Selection Committees for recruitment to various posts under the Board through direct recruitment or promotion were constituted during July 2003.

The Compositions of the Consent Committee, the Purchase Committee, the Selection Committee and the Promotion Committee are as given below:

#### MEMBERS OF THE CONSENT COMMITTEE FOR THE PERIOD 2005-2006

- |   |                     |
|---|---------------------|
| 1. Chairman<br>Meghalaya State Pollution Control Board,<br>Shillong.  | : Chairman          |
| 2. Senior Inspector of Boilers & Factories,<br>Inspectorate of Boilers & Factories,<br>Meghalaya, Shillong. | : Member            |
| 3. Conservator of Forests,<br>Meghalaya, Shillong.  | : Member            |
| 4. Deputy Director,<br>Directorate of Industries,<br>Meghalaya, Shillong.                                   | : Member            |
| 5. Director of Mineral Resources,<br>Meghalaya, Shillong.   | : Member            |
| 6. Member Secretary,<br>Meghalaya State Pollution Control Board,<br>Shillong.                               | :Member<br>Convener |

**MEMBERS OF THE PURCHASE COMMITTEE DURING THE YEAR 2005-2006**

- |  |            |
|--|------------|
| 1. Chairman<br>Meghalaya State Pollution Control Board,<br>Shillong.                               | : Chairman |
| 2. Director of Industries <i>or</i> his nominee.   | : Member   |
| 3. Chief Engineer P.H.E Deptt. Meghalaya <i>or</i> his<br>nominee                                  | : Member   |
| 4. The Director,<br>Regional Sophisticated Instrument Centre,<br>Bijni Complex, N.E.H.U, Shillong. | : Member   |
| 5. Senior Scientist, Indian Council of Agricultural<br>Research(I.C.A.R), Umiam                    | : Member   |
| 6. Member Secretary,<br>Meghalaya State Pollution Control Board,<br>Shillong.                      | : Convener |

**MEMBERS OF THE SELECTION COMMITTEE FOR THE PERIOD 2005-2006  
[FOR GRADE - 'A' POSTS]**

- |   |                     |
|---|---------------------|
| 1. Commissioner & Secretary,<br>Govt. of Meghalaya, P.H.E.Deptt., Shillong                                  | : Chairman          |
| 2. Chairman<br>Meghalaya State Pollution Control Board,<br>Shillong   | : Member            |
| 3. Under Secretary,<br>Govt. of Meghalaya, P.H.E. Deptt. Shillong.  | : Member            |
| 4. Environmental Engineer,<br>I/C North Eastern Zonal Office,<br>Central Pollution Control Board, Shillong. | : Member            |
| 5. Member Secretary,<br>Meghalaya State Pollution Control Board,<br>Shillong.                               | :Member<br>Convener |

**MEMBERS OF THE SELECTION COMMITTEE FOR THE PERIOD 2005-2006  
[FOR GRADE - 'B', 'C' & 'D' POSTS]**

- 
1. Chairman  
Meghalaya State Pollution Control Board,  
Shillong. : Chairman
  2. Chief Administrative Officer,  
O/o the C.E., P.H.E. Deptt. Shillong. : Member
  3. Environmental Engineer,  
I/C North Eastern Zonal Office,  
Central Pollution Control Board, Shillong. : Member
  4. Member Secretary,  
Meghalaya State Pollution Control Board,  
Shillong. : Member
  5. Administrative Officer/E.O. Meghalaya State  
Pollution Control Board, Shillong. :Member  
Convener
- 

**MEMBERS OF THE ASSESSMENT-CUM- PROMOTION COMMITTEE FOR THE PERIOD 2005-  
2006  
[FOR GRADE – 'A' POSTS]**

1. Chairman  
Meghalaya State Pollution Control Board,  
Shillong. : Chairman
  2. Member Secretary,  
Meghalaya State Pollution Control Board,  
Shillong. : Member
  3. Senior Scientist/Scientist 'C' : Member
  4. Sr. Environmental Engineer/ Environmental  
Engineer : Member
  5. Chief Administrative Officer,  
O/o the C.E., P.H.E. Deptt., Meghalaya,  
Shillong : Member
  6. Administrative Officer/Establishment Officer  
Meghalaya State Pollution Control Board,  
Shillong. :Member  
Convener
- 

**MEMBERS OF THE ASSESSMENT-CUM- PROMOTION COMMITTEE FOR THE PERIOD 2005-  
2006**

**[FOR GRADE – 'B', 'C' & 'D' POSTS]**

1. Member Secretary, : Chairman  
Meghalaya State Pollution Control Board,  
Shillong
2. Chief Administrative Officer, : Member  
O/o the C.E., P.H.E. Deptt., Meghalaya,  
Shillong
3. Senior Scientist/Scientist 'C' : Member
4. Sr. Environmental Engineer/ Environmental : Member  
Engineer
5. Administrative Officer/Establishment Officer :Member  
Meghalaya State Pollution Control Board, Convener  
Shillong

## **5 MONITORING NETWORK FOR AIR QUALITY, WATER QUALITY, AND NOISE LEVEL**

### **5.1 MONITORING OF AIR QUALITY**

#### **(A) NATIONAL AIR QUALITY MONITORING**

There are 2(two) National Air Quality Monitoring Programme (NAMP) stations in the state and both are located in Shillong City. One station is located in the Office premises of the Board at Lumpyngngad, Shillong (Table 1.0) and the other station is located at the State Tuberculosis office building at Khyndailad, Police Bazar, Shillong (Table 2.0).

Suspended Particulate Matter (SPM), Sulfur Dioxide (SO<sub>2</sub>), Oxides of Nitrogen (NO<sub>x</sub>) and meteorological parameters viz. wind speed, wind direction, ambient air temperature, humidity, etc. were monitored at these NAMP stations and the observations are as given below:

**TABLE 1.0 STATION AT BOARD'S OFFICE PREMISES, LUMPYNGNGAD, SHILLONG**

MONTH & YEAR 2005-2006	PARAMETERS TESTED (MONTHLY AVERAGES)			
	SPM (µg/m <sup>3</sup> )	RSPM (µg/m <sup>3</sup> )	SO <sub>2</sub> (µg/m <sup>3</sup> )	NO <sub>x</sub> (µg/m <sup>3</sup> )
JANUARY '05	50.3	55.0	1.4	1.0
FEBRUARY '05	57.3	44.8	1.1	1.8

MARCH '05	67.0	47.9	1.25	1.6
APRIL '05	51.8	50.3	BDL	BDL
MAY '05	55.5	40.2	BDL	BDL
JUNE '05	53.3	40.7	BDL	
JULY '05	45.8	36.7	BDL	2.8
AUGUST '05	42.5	35.7	BDL	BDL
SEPTEMBER '05	42.5	35.7	BDL	BDL
OCTOBER '05	50.5	39.8	BDL	BDL
NOVEMBER '05	73.5	53.0	BDL	BDL
DECEMBER '05	86.1	68.5	BDL	BDL
MARCH '06	59.0	49.5	2.0	4.5

**TABLE 2.0 STATION AT STATE TUBERCULOSIS BUILDING, POLICE BAZAR, SHILLONG.**

MONTH & YEAR 2005 - 2006	PARAMETERS TESTED (MONTHLY AVERAGES)			
	SPM ( $\mu\text{g}/\text{m}^3$ )	RSPM ( $\mu\text{g}/\text{m}^3$ )	SO <sub>2</sub> ( $\mu\text{g}/\text{m}^3$ )	NO <sub>x</sub> ( $\mu\text{g}/\text{m}^3$ )
SEPTEMBER '05	76.0	58.5	BDL	7.7
OCTOBER '05	106.9	79.4	BDL	10.1
NOVEMBER '05	100.7	76.8	BDL	11.8
DECEMBER '05	137.9	110.4	BDL	16.5
MARCH '06	198.5	115.1	5.4	18.7

### (B) AIR QUALITY MONITORING FOR SOME INDUSTRIES

The Board carried out ambient air (Table 1.0) and source emission (Table 2.0) quality monitoring for some industrial units operating in the state. The following results were obtained during the monitoring: -

**TABLE 1.0: AMBIENT AIR QUALITY DATA OF SOME INDUSTRIAL UNITS**

SL.NO	DATE	NAME OF THE INDUSTRY & LOCATION	RSPM ( $\mu\text{g}/\text{m}^3$ )	SPM ( $\mu\text{g}/\text{m}^3$ )	SO <sub>2</sub> ( $\mu\text{g}/\text{m}^3$ )	NO <sub>x</sub> ( $\mu\text{g}/\text{m}^3$ )	Remarks
1.	04.04.2005	M/S CMC Ltd.,	56.6	73.0	4.1	6.3	Within Permissible

		Lumshnong (Guest House)					Limit
2.	04.04.2005	M/S CMC Ltd., Lumshnong (Water Pump House)	82.6	166.8	8.0	10.4	Within Permissible Limit
3.	04.04.2005	M/S CMC Ltd., Lumshnong (100m Floor Factory)	93.5	194.7	BDL	BDL	Within Permissible Limit
4.	26.04.2005	Umtru Power House Complex, Byrnihat	43.5	51.8	BDL	10.5	Within Permissible Limit

TABLE 2.0: STACK MONITORING DATA OF SOME INDUSTRIES

Sl. No.	Date of sampling	Name of sampling location	PARAMETERS TESTED	OBSERVED VALUES (mg/Nm <sup>3</sup> )	REMARKS
1.	04.04.2005	M/S Cement manufacturing Co. Ltd. Lumshnong, Meghalaya	PM	31.6	Within Permissible Limit
2.	04.04.2005	M/S Cement manufacturing Co. Ltd. Lumshnong, Meghalaya	PM	100.8	Within Permissible Limit
3.	05.04.2005	M/S Cement manufacturing Co. Ltd. Lumshnong, Meghalaya	PM	44.2	Within Permissible Limit
4.	05.04.2005	M/S Cement manufacturing Co. Ltd. Lumshnong, Meghalaya	PM	87.7	Within Permissible Limit
5.	30.05.2005	Military Hospital, Shillong	PM HCL	235.3 NIL	Above Permissible Limit

			VOC	0.006	Within Permissible Limit Within Permissible Limit
--	--	--	-----	-------	--

### (B) ASSESSMENT OF VEHICULAR POLLUTION

The main sources of air pollution in the state are the vehicular exhaust emissions simply because the per capita vehicular density in the urban areas is very high. The Board has an Auto-emission-testing centre in its office premises at Lumpyngngad, Shillong which has been functioning since January 1994. This Centre caters to the exhaust testing needs for the commercial petrol - driven light vehicles only.

As per arrangement with the Office of the Commissioner of Transport, Meghalaya, the periodical renewals of permits of taxis are subject to submission of "Green Certificates" issued from the Office of the Board. During the year 2005-2006, the number of vehicles tested at the Centre is as follows:

PERIOD	TYPE OF VEHICLES	TOTAL NO. OF VEHICLES TESTED	PERCENTAGE OF VEHICLES COMPLYING TO EMISSION STANDARDS	PERCENTAGE NOT COMPLYING TO EMISSION STANDARDS
01.04.2005 to 31.03.2006	Petrol-Driven LMV	1681	92.9%	7%

### 5.2(A) MONITORING OF WATER QUALITY

#### (1) MONITORING OF WATER QUALITY UNDER NATIONAL WATER QUALITY MONITORING PROGRAMME (NWMP)

One of the main functions of the Board is to monitor the water quality of water bodies so that a comprehensive programme for prevention and control on abatement of water pollution can be planned. Keeping this in view the Meghalaya State Pollution Control Board is monitoring the water quality of the following 8(eight) surface water bodies and 5(five) ground water bodies in the state, under the National Water Monitoring Programme (NWMP), sponsored by CPCB. The monitoring is done on quarterly basis in surface water and Half Yearly in case of ground water.

The details regarding the monitoring stations is stated below

**Table -1.0: Monitoring Stations under NWMP**

Sl. No.	Name of monitoring stations	Location	Parameters analysed on regular basis	Parameters analysed (Once in a Year)
---------	-----------------------------	----------	--------------------------------------	--------------------------------------

Surface Water				
1.	Umtrew river	Byrnihat	<b><u>i. Field Observation:</u></b>	
2.	Kyrhuhkhla river	Khliehriat	<b><u>ii. Physico-chemical &amp; bacteriological parameters:</u></b> Dissolved Oxygen, pH, Conductivity, Biological Oxygen Demand, Nitrate Nitrogen, Nitrite Nitrogen, Total Coliform and Fecal Coliform  <b><u>iii. Biomonitoring:</u></b> Saprobity Index, Diversity Index	Turbidity, Alkalinity, Total Hardness, NH <sub>3</sub> -N, Kjeldahl-N, Calcium, Magnesium, Potassium, Sodium, Sulphates, Phosphates, COD, As*, Zn*, Cu*, Cr*, Cd*, Pb*, Fe*, Ni*, Flouride*
3.	Umiam lake	Umiam		
4.	Ward's lake	Shillong		
5.	Thadlaskein lake	Thadlaskein		
6.	Myntdu river	Jowai		
7.	Ganol river	Tura		
8.	Simsang river	Williamnagar		
Ground Water				
9.	Police Bazar spring	Shillong		
10.	Mawpdang spring	Shillong		
11.	Wah U Dkhar	Sohra		
12.	Umsahep spring	Shangpung		
13.	Narbong well	Byrnihat		

### 5.2.1: Water Quality of the monitored water bodies

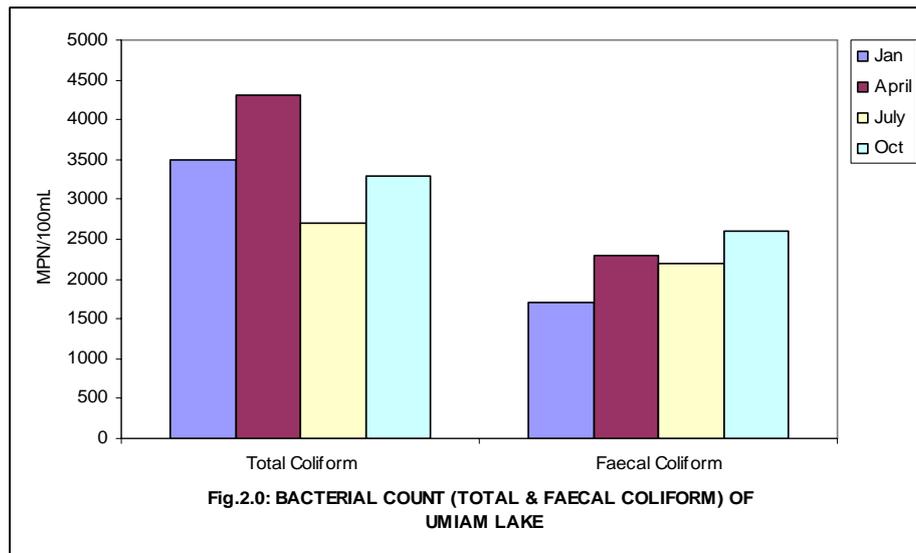
#### 5.2.1.1: Physico-chemical & bacteriological parameters of Surface Water Quality

**Umiam Lake:** The major sources of pollution of this water body are the discharge of municipal solid and liquid water, dumping of spoils and garbages, deforestation in the catchment area, agricultural activities. Other anthropogenic activities which interfere with the aquatic eco-system are boating; wasting; fishing, bathing, recreational activities, and being a tourist spot it attract a large number of tourists which also contribute substantially towards pollution.

The monitoring result obtained during the year 2005 indicates that the Dissolved Oxygen values of this lake in meeting the desired class throughout the year. The

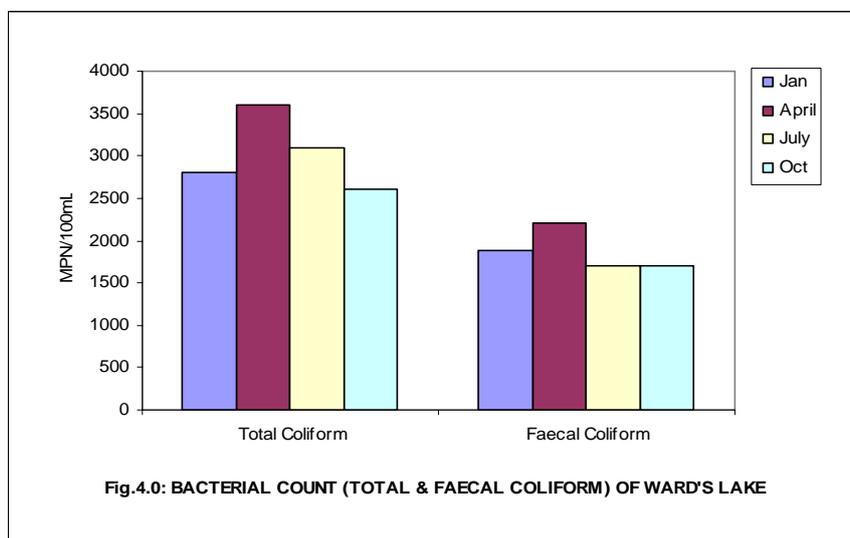
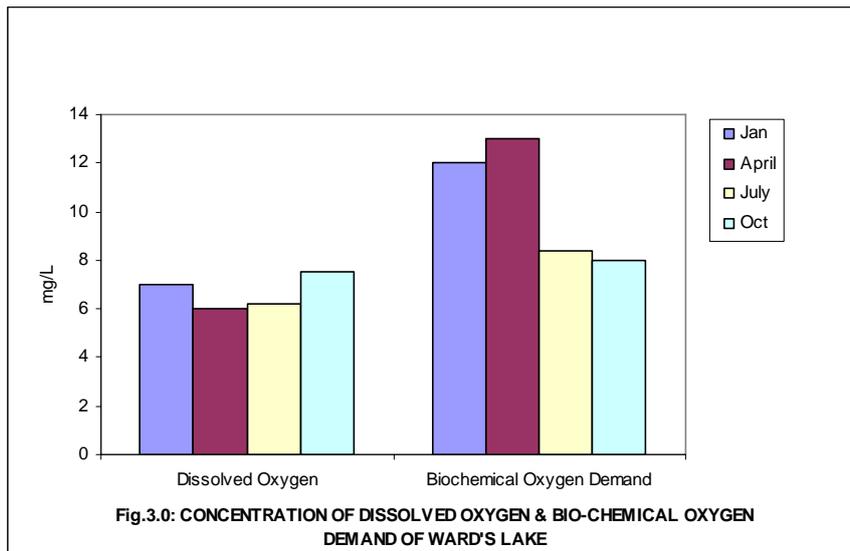
Biochemical Oxygen Demand value is not meeting the desired class (3mg/L) value ranges from 8.4 mg/L to 10.5mg/L.

The organic pollution examined in items of Biochemical Oxygen Demand & coliform count indicates the extent of water quality degradation. Similarly Total and Faecal Coliform which indicate presence of pathogens in water are also of major concern. As per the Primary Water Quality Criteria shown at Table: 2.0, this water body falls under 'D' class. The concentration of Dissolved Oxygen, Biochemical Oxygen Demand, Total and Faecal Coliform of this monitoring station are depicted below in Figs. 1.0 & 2.0:



**Ward'Lake:** Situating in the heart of the city and being the major attraction of tourist, this water body is also polluted. The main sources of pollution of this water body are the dumping of solid waste, waste water discharge from the commercial and government buildings located around it. Human activities such as boating, tourism also affect the aquatic ecosystem.

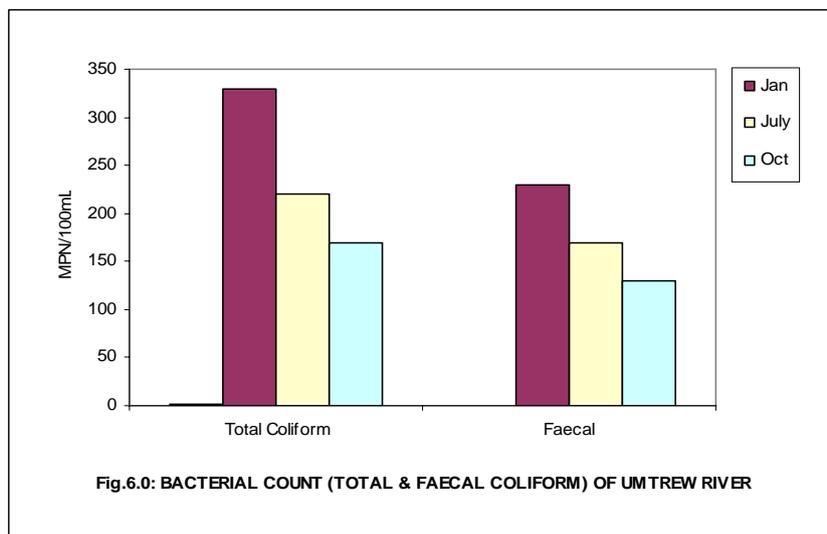
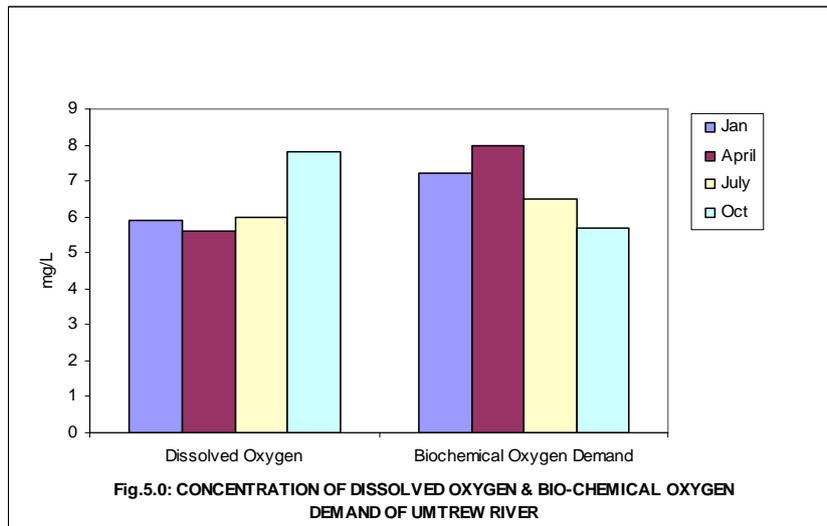
The monitoring results obtained being the year 2005, revealed that the Dissolved Oxygen concentration is meeting the desired class. The value ranges from 6.0 mg/l to 9.0 mg/l. The monitoring data results indicate that organic and bacterial contaminations are the main critical pollutant in the water body. The Biochemical Oxygen Demand value ranges from 8.0mg/l to 12.5mg/l. The total and faecal coliform are high indicating the deteriorating condition of the lake. As per the Primary Water Quality Criteria, the lake falls under 'D' class. The water quality of the lake with respect to Dissolved Oxygen, Biochemical Oxygen Demand, Total and Faecal Coliform are presented below in Figs.3.0 & 4.0:



**Umtrew River:** The sources of pollution of the water body at the monitored location discharge of untreated solid and liquid waste from the residential areas, open defecation, dumping of solid waste etc. Industrial estate located in the upstream of the monitored location may also perhaps contribute to pollution of the river. Other activities which disturb the aquatic ecosystem are the sand dredging and recovery, boating, washing, bathing and cattle wading.

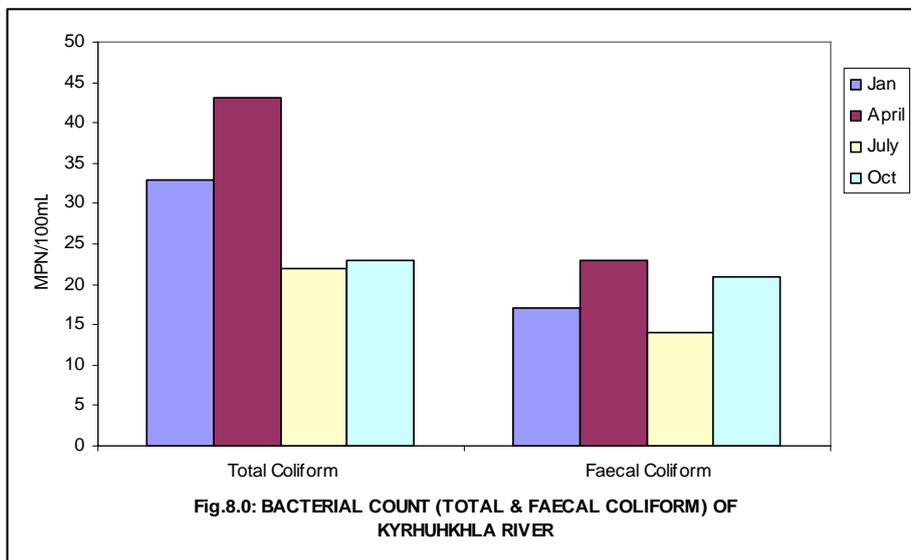
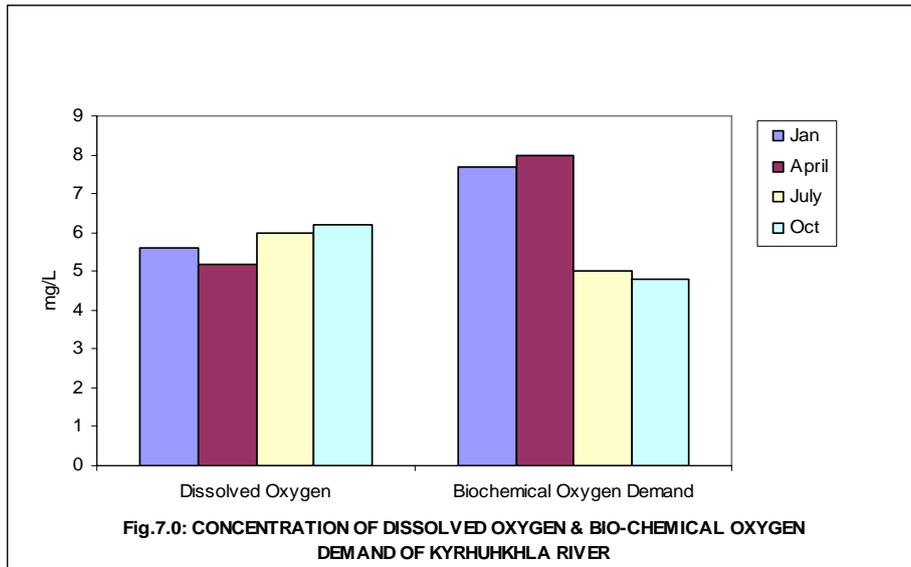
The monitoring results indicate the Biochemical Oxygen Demand is above the limit for the desired class and it ranges from 5.2 to 9.6. The total and fecal Coliforms are also detected although their numbers are within the limit for the desired class.

As per the Primary Water Quality Criteria, the river water falls under 'C' class. The water quality with respect to Dissolved Oxygen, Biochemical Oxygen Demand, Total and Faecal Coliform are presented below in Fig.5.0 & 6.0:



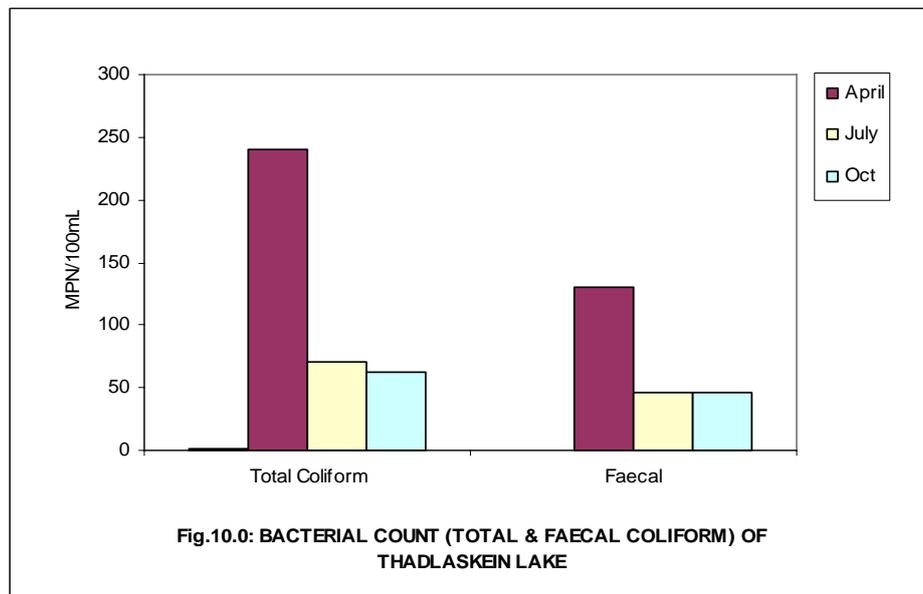
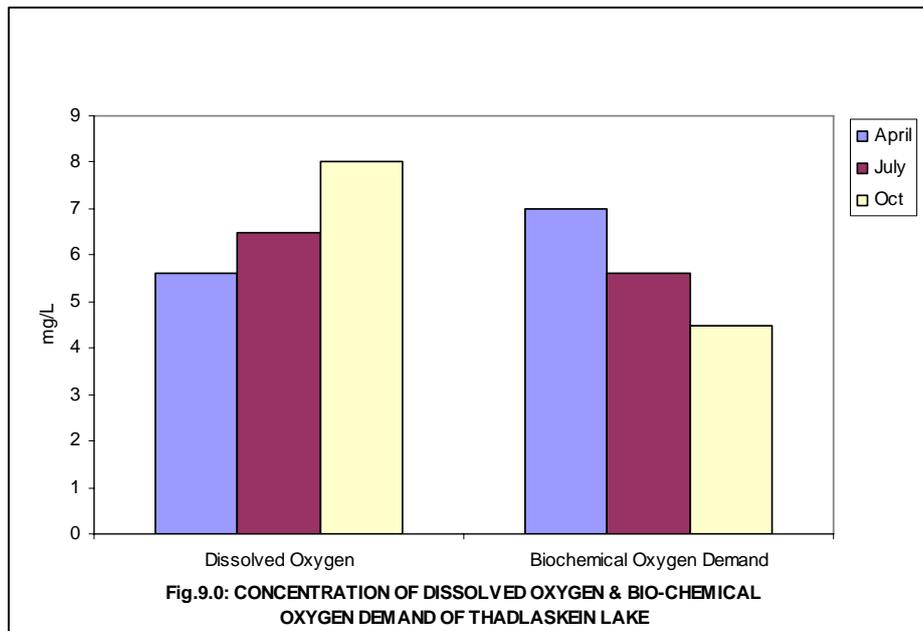
**Kyrhuhkhla River:** Located in the coal mining area of Jaintia Hills District, this river is highly acidic due to acid mine drainage and coal storage. Apart from coal mining activities, this river is also polluted due to solid and waste water discharge from coal labour settlement, open defecation etc.

The monitoring result revealed that the pH value is as low as 3.0. The Biochemical Oxygen Demand value is above the limit for the desired class and it ranges from 5.0mg/l to 5.4 mg/l. The concentration of Dissolved Oxygen, Biochemical Oxygen Demand, Total and Faecal Coliform are presented below in Figs.7.0 & 8.0:



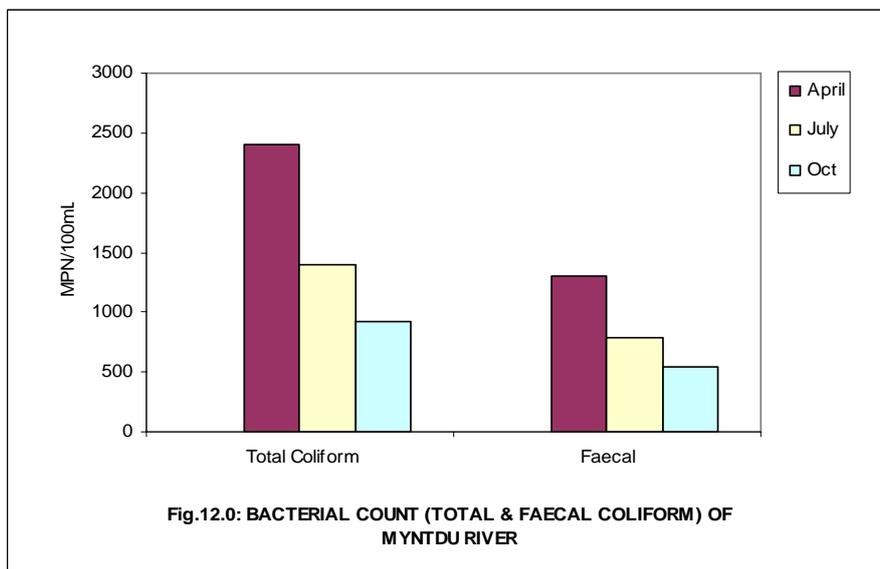
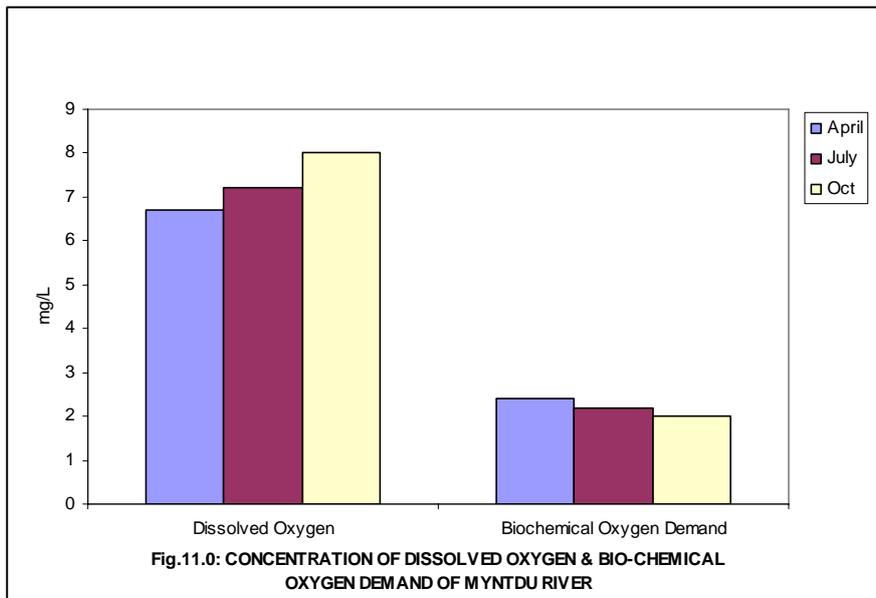
**Thadlaskein Lake:** The water quality of the lake is affected to some extent by surface run off from surrounding areas, and agricultural activities. Other activities which may contribute towards pollution are tourist activity, fishing, washing.

The monitoring results show the present of organic pollutants such as Biochemical Oxygen Demand. Total and Fecal Coliform are also detected. The lake water falls under 'B' class as per Primary Water Quality Criteria. The concentration of Dissolved Oxygen, Biochemical Oxygen Demand, Total and Faecal Coliform of this monitoring station are depicted below in Figs.9.0 & 10.0:



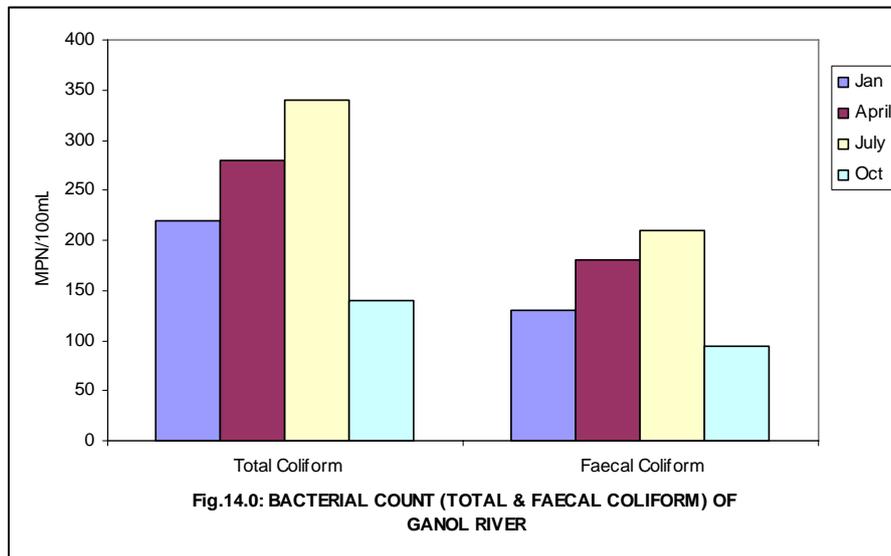
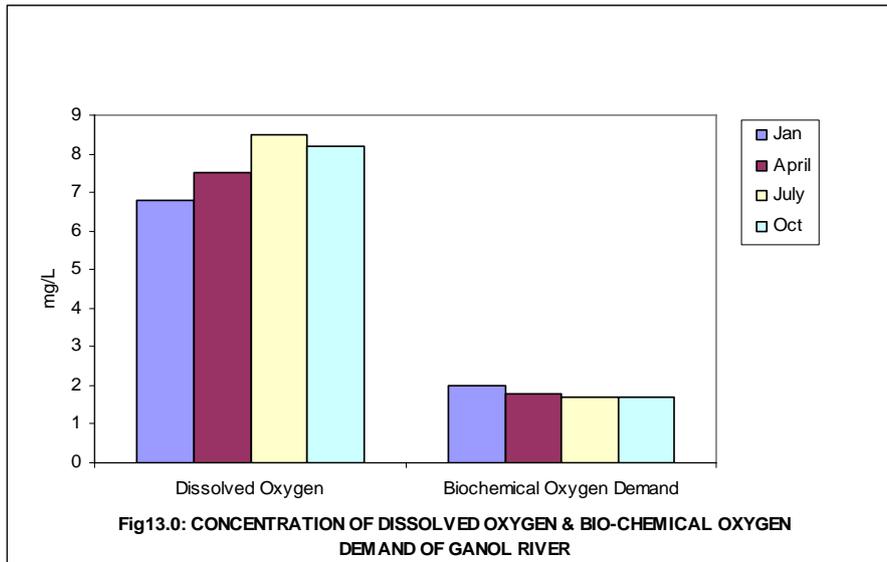
**Myntdu River:** The main sources of pollution of this river are the solid and waste water discharge from the residential areas, dumping of solid waste, spoil and garbage, agricultural activities. Other activities which affect the water quality are sand recovery and dredging, fishing washing, bathing and cattle wading.

The monitoring results indicate that the water was polluted with Total and Faecal Coliform. As per the Primary Water Quality Criteria, the river water falls under 'C' class. The concentration of Dissolved Oxygen, Biochemical Oxygen Demand, Total and Faecal Coliform of this monitoring station are depicted below in Figs.11.0 & 12.0:



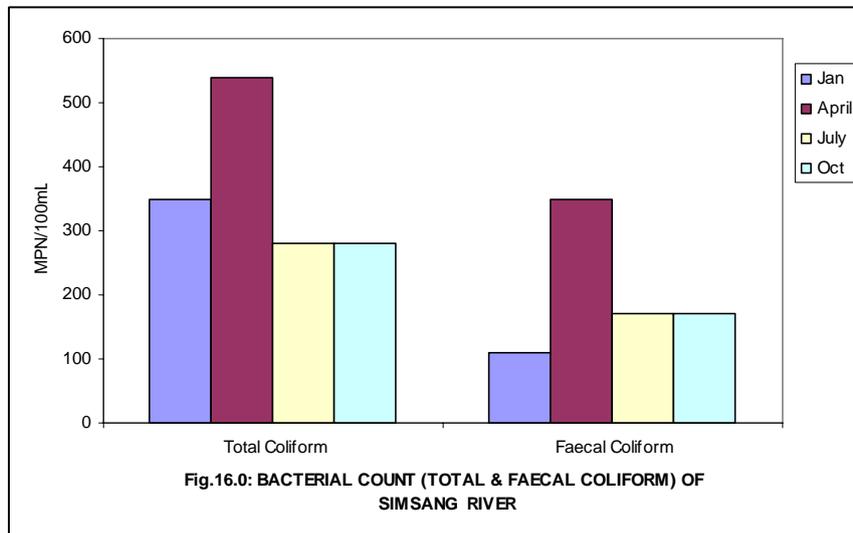
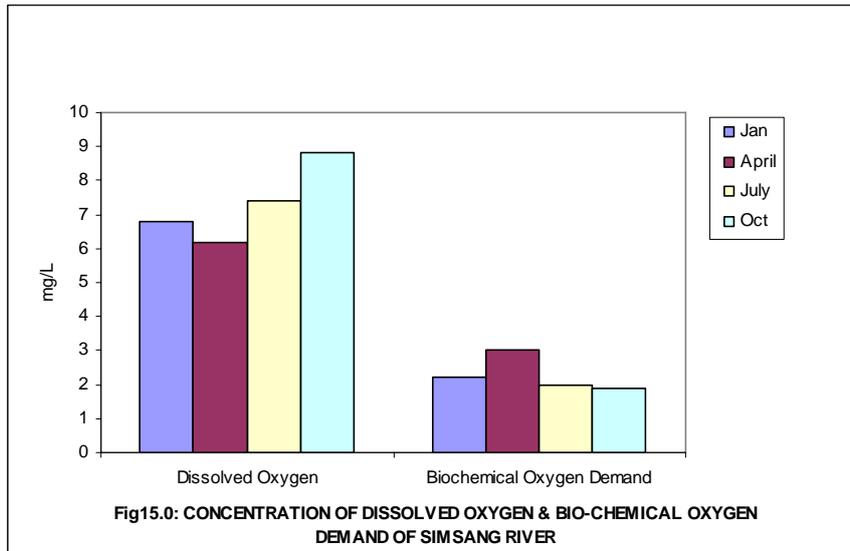
**Ganol River:** The main sources of pollution of the water body are untreated and waste water discharge from the residential areas, agricultural activities, and open defecation, dumping of solid waste, spoils and garbage on the bank of the river. Other activities which may disturb the aquatic ecosystem are cattle wading, quarrying, fishing, sand recovery, stone crushing, and construction work at upstream, washing, bathing.

The monitoring results show the contamination of water body by Total & Faecal Coliform. As per Primary Water Quality Criteria, the river water falls under 'B' class. The concentration of Dissolved Oxygen, Biochemical Oxygen Demand, Total and Faecal Coliform of this monitoring station are depicted below in Figs.13.0 & 14.0:



**Simsang River:** The main sources of pollution of this water body are the discharge of untreated solid & waste water from municipal areas, open defecation, dumping of solid waste, spoils and garbage. Other activities likely to disturb the aquatic ecosystem are construction work at the upstream, fishing, bathing, sand recovery & dredging.

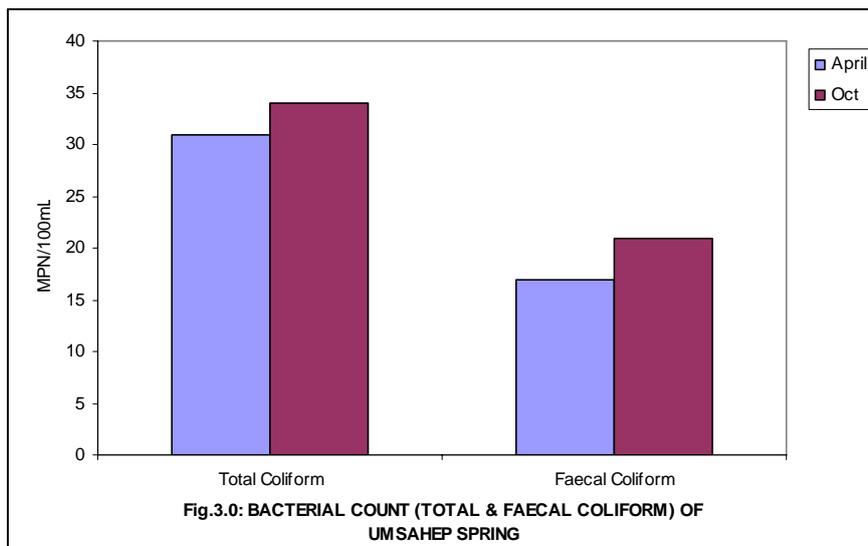
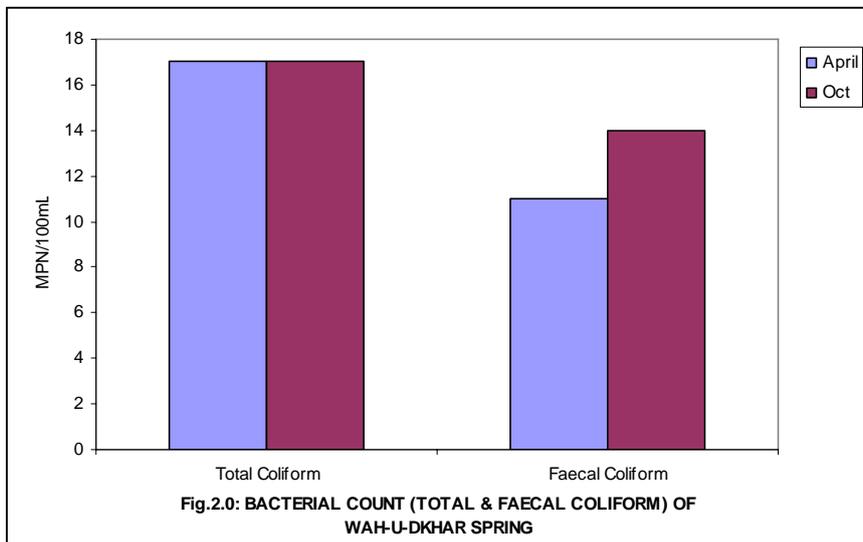
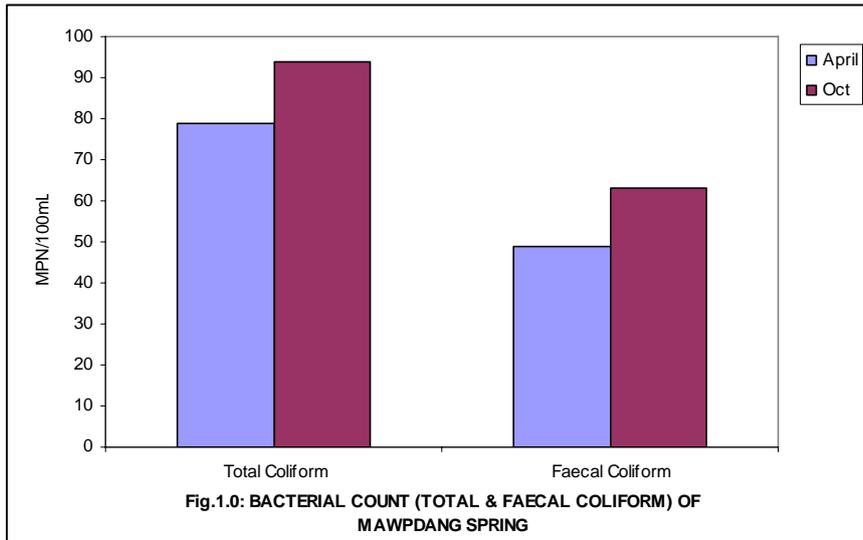
The monitoring results indicate the contamination of river water by Total and Faecal Coliform. As per the Primary Water Quality Criteria, the river water falls under 'B' class. The concentration of Dissolved Oxygen, Biochemical Oxygen Demand, Total and Faecal Coliform of this monitoring station are depicted below in Figs.15.0 & 16.0:

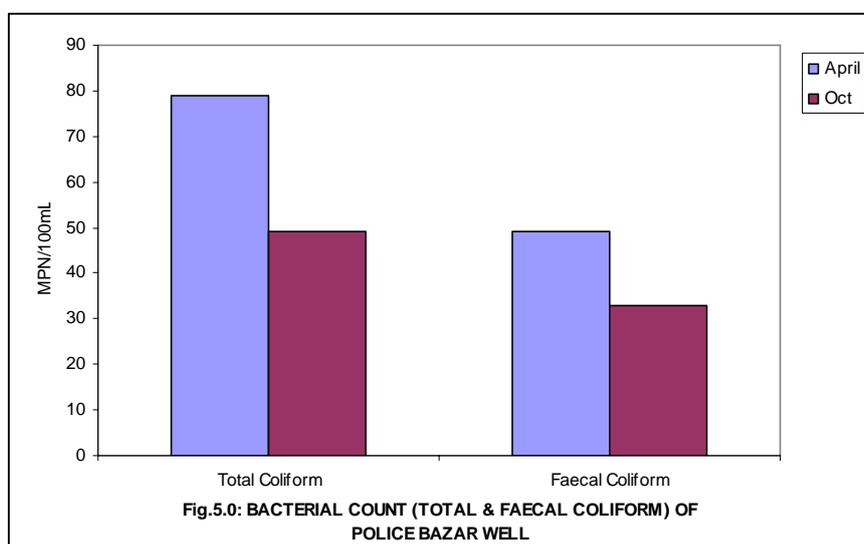
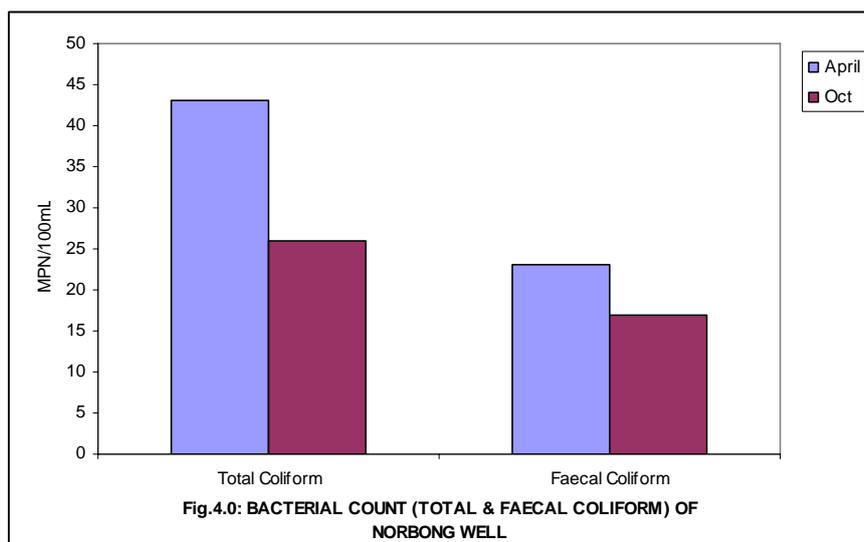


**5.2.1.2: Physico-chemical & bacteriological parameters of Ground Water Quality:**

The monitoring results revealed the presence of Total and Faecal Coliform .Presence of Coliform in all monitored ground water indicate the possibility of ground water contamination.

The Bacterial Count of the monitored stations are depicted in Figs. 1.0 to 5.0.





**Table -2.0: Primary water quality criteria for various uses of fresh waters, as laid down by the Central Pollution Control Board**

Sl. No.	Characteristics	A*	B*	C*	D*	E*
1.	Dissolved Oxygen (DO),mg/l,Min	6	5	4	4	-
2.	Biochemical Oxygen Demand(BOD),mg/l,Max	2	3	3	-	-
3.	Total Coliform organism** MPN/100ml,Max.	50	500	5,000	-	-
4.	pH value	6.5-8.5	6.5-8.5	6.0-9.0	6.5-8.5	6.5-8.5
5.	Free ammonia (as N), mg/l,Max	-	-	-	1.2	-
6.	Electrical conductivity ,micromhos/cm, Max.	-	-	-	-	2,250
7/	Sodium adsorption ratio,	-	-	-	-	26.0

	Max					
8.	Boron, mg/l,Max	-	-	-	-	2.0

Use class: (A) drinking water source without conventional treatment but after disinfection, (B) outdoor bathing organized, (C) drinking water source with conventional treatment followed by disinfection, (D) propagation of wildlife, fisheries, (E) irrigation, industrial cooling controlled waste disposal.\*\*If coliforms are found to be more than the prescribed tolerance limits the criteria for coliforms shall be satisfied if not more than 20% of samples show more than the tolerance limits specified, and not more than 5% of samples show value more than 4 times the tolerance limits. There should be no visible discharge of domestic and industrial wastes into Class A waters. In case of Class B and C the discharge shall be so regulated /treated as to ensure maintenance of the stream standards. Source: CPCB Publication.

### 5.2.1.3 CONCENTRATION OF HEAVY METALS IN SURFACE WATER BODIES

The Board is monitoring the concentration of Heavy metals of the following 8(eight) surface water bodies in the state, under the National Water Monitoring Programme (NWMP), sponsored by CPCB. The monitoring is done once in a year. Table-3.0 presents the data on concentration of Heavy Metals in Surface Water Bodies.

**Table-3.0 Concentration of Heavy Metals in Surface Water Bodies, 2005**

Sl. No.	Station Name	PARAMETERS							
		Iron (mg/l)	Nickle (mg/l)	Copper (mg/l)	Zinc (mg/l)	Lead (mg/l)	Chromium (mg/l)	Cadmium (mg/l)	Arsenic (mg/l)
1.	Umiam	0.20	BDL	BDL	0.018	BDL	BDL	BDL	Nil
2.	Ward's Lake	0.14	BDL	BDL	0.011	BDL	BDL	BDL	Nil
3.	Umtrew	1.3	BDL	BDL	0.019	0.008	BDL	BDL	Nil
4.	Kyrhuhkhla	6.8	0.1	0.019	0.156	0.023	BDL	BDL	Nil
6.	Myntdu	3.1	BDL	BDL	0.024	BDL	BDL	BDL	Nil
7.	Ganol	0.39	BDL	BDL	0.035	BDL	BDL	BDL	Nil
8.	Simsang	0.48	BDL	BDL	0.008	BDL	BDL	BDL	Nil

### 5.2.1.4 Biomonitoring of Surface Water Bodies

The aquatic ecosystem consists of several abiotic and biotic components. Almost all these components are affected directly or indirectly by pollution. For assessment of pollution in water body it is difficult to monitor water quality by using only physico-chemical parameters. Therefore monitoring of biological components have been recognized as an important prerequisite for pollution control activities. Among all other living system present in a flowing water body, the benthic macro-invertebrates have been considered to be the best suitable biological parameters for water quality evaluation due to the following reasons;

- They are visible to the naked eye:
- Their taxonomy is well developed:
- Their sampling and observations are easy:
- They demonstrate an integrated effect of pollution;
- They are useful in assessing the effect of municipal, industrial, oily and toxic Pollution

The biological data generated from the monitoring are being analyzed computing the respective biological indices and are presented in Table 4.0

**Table-4.0 Bio-Monitoring of Surface Water Bodies, 2005**

Sl. No.	Surface Water Bodies	Saprobic Score	Diversity Score	Biological Water Quality Class	Biological Water Quality
1.	Umtrew river	5.0-6.0	0.5	C	Moderate Pollution
2.	Kyrhuhkhla river	4.7	0.5	C	Moderate Pollution
3.	Umiam lake	4.2-5.3	0.4-0.43	C	Moderate Pollution
4.	Ward's lake	5.7-6.3	0.5-0.6	D	Heavy Pollution
6.	Myntdu river	6.0-6.7	0.52-0.6-	C	Moderate Pollution
7.	Ganol river	6.1-6.4	0.5-0.65	C	Moderate Pollution
8.	Simsang river	6.0-6.6	0.5-0.53	B	Slight Pollution

### 5.2 (B) Analysis of water samples received from government departments and private agencies

In addition to the regular programme, the Board is also analyzing the water quality of water samples used for drinking, construction, etc received from government departments and private agencies. A total of 319 (three hundred nineteen) such samples were tested during the year.

### 5.3 NOISE LEVEL MONITORING DURING DIWALI FESTIVAL.

Monitoring of noise levels was conducted in Shillong on the 28<sup>th</sup> October 2005 before Diwali and on Diwali Day i.e. the 1<sup>st</sup> November 2005 to compare the noise levels during day time and night time before and on the Festival day. The monitoring was conducted in compliance with the Govt. of India Notification NO. G.S.R. 682 (E) dated 5<sup>th</sup> October, 1999 and the interim directions of the Honorable Supreme Court.

Ambient Noise levels before and on Diwali day during day time monitoring (Table-1) indicates that before Diwali day almost all of the residential areas monitored have exceeded the prescribed standard, mainly due to vehicular noise. The readings taken in the commercial areas are also on the higher side due to the same reason. All the Silence Zones are in gross violation of the prescribed standard basically due to their close proximity to busy roads and intersections. On Diwali day, readings taken in all locations are higher than the prescribed standards. However, the celebrations this year seem to be subdued as there are no readings grossly violating the standards.

Ambient Noise levels before and on Diwali day during night time monitoring (Table-2) also indicates that the ambient noise levels before Diwali day have exceeded the prescribed standard in almost all the residential areas, commercial areas and Silence Zones. On Diwali Day, the ambient night noise in all locations observed to be slightly higher than that recorded before Diwali.

The monitoring programme conducted shows that the noise levels in almost all the locations are above the prescribed limits indicating that Diwali celebrations has attributed further to the increased noise levels all over the city and this might pose considerable health risk to the people in general.



TABLE 1.0: DAY TIME NOISE READINGS

SL. NO.	PLACE	CATEGORY	AMBIENT NOISE STANDARDS [dB (A) Leq]	NOISE MONITORED			
				BEFORE DIWALI		ON DIWALI DAY	
				28 <sup>th</sup> October, 2005		1 <sup>st</sup> November, 2005	
				TIME	READING [dB (A) Leq]	TIME	READING [dB (A) Leq]
1.	Laitumkhrah (Lummawrie)	Residential	55	2.40 P.M.	56.3	3:05 P.M.	56.7
2.	Lachumiere	Residential	55	3.26 P.M.	61.4	4:00 P.M.	56.2
3.	Jaiaw Main Road	Residential	55	3.05 P.M.	63.4	5:44 P.M.	65.7
4.	Upper Mawprem	Residential	55	4.17 P.M.	62.1	5:03 P.M.	68.1
5.	Lawsohtun	Residential	55	5:16 P.M.	58.6	4:35 P.M.	61.1
6.	Rilbong	Residential	55	2.10 P.M.	62.6	4:40 P.M.	61.1
7.	Lumpyngngad	Residential	55	2.54 P.M.	49.7	2:14 P.M.	57.4
8.	New Colony	Residential	55	2.45 P.M.	56.1	3:15 P.M.	55.4
9.	Tirot Singh Nagar	Residential	55	3:03 P.M.	57.1	2:50 P.M.	56.5
10.	Laitumkhrah Bazar	Commercial	65	3.20 P.M.	73.4	3:12 P.M.	64.3
11.	Laitumkhrah Police Point	Commercial	65	3.20 P.M.	73.4	3:12 P.M.	64.3
12.	Dhankheti	Commercial	65	6.25 P.M.	72.0	3:27 P.M.	69.6
13.	Motphran	Commercial	65	4.50 P.M.	72.8	5:11 P.M.	73.3
14.	Paltan Bazaar	Commercial	65	4.20 P.M.	67.9	5:05 P.M.	67.6
15.	Mawprem Taxi Stand	Commercial	65	4.15 P.M.	60.1	5:35 P.M.	66.2
16.	Barapathar Bazaar	Commercial	65	4.10 P.M.	64.0	4:53 P.M.	72.0
17.	Jhalupara	Commercial	65	3.35 P.M.	71.9	5:00 P.M.	73.0
18.	Iew Dak (Laban)	Commercial	65	3.43 P.M.	73.4	4:23 P.M.	70.3
19.	Last Stop	Commercial	65	3.45 P.M.	64.2	4:28 P.M.	67.0
20.	Bishnupur	Commercial	65	3.24 P.M.	73.8	4:32 P.M.	67.1
21.	Malki Point	Commercial	65	2.24 P.M.	70.6	3:29 P.M.	74.2
22.	Nongthymmai Bus Stand	Commercial	65	5:45 P.M.	67.6	2:37 P.M.	72.9
23.	Saw Lad (Band Stand)	Commercial	65	5:50 P.M.	76.8	2:24 P.M.	73.6
24.	Rynjah Bazaar	Commercial	65	6:00 P.M.	66.7	2:47 P.M.	69.6
25.	Polo Bazaar	Commercial	65	6:10 P.M.	70.6	6:05 P.M.	74.7
26.	Keating Road	Commercial	65	6:15 P.M.	62.2	4:15 P.M.	68.5

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27.	Police Bazaar (Police Point)	Commercial	65	5.40 P.M.	68.7	6:43 P.M.	78.8
28.	Police Bazaar (R.B. Store)	Commercial	65	2.50 P.M.	59.4	6:40 P.M.	75.3
29.	Police Bazaar (Payal Cinema)	Commercial	65	3.05 P.M.	68.8	6:30 P.M.	81.1
30.	Jail Road	Commercial	65	3.30 P.M.	67.2	6:25 P.M.	71.8
31.	Nazareth Hospital	Silence Zone	50	5.02 P.M.	56.7	3:10 P.M.	55.3
32.	Don Bosco Square	Silence Zone	50	4.44 P.M.	76.3	3:23 P.M.	66.6
33.	Civil Hospital	Silence Zone	50	2.16 P.M.	62.8	4:20 P.M.	61.6
34.	K.J.P. Hospital	Silence Zone	50	5.20 P.M.	55.5	5:42 P.M.	61.6
35.	District Council	Silence Zone	50	5.32 P.M.	68.3	5:30 P.M.	68.9
36.	Mayurbanch (N.E.H.U)	Silence Zone	50	5:40 P.M.	53.9	2:23 P.M.	56.5
37.	Bethany Hospital	Silence Zone	50	6:05 P.M.	65.1	3:00 P.M.	70.6
38.	Ganesh Das Hospital	Silence Zone	50	6:22 P.M.	54.5	5:57 P.M.	66.9
39.	Main Secretariat	Silence Zone	50	6:33 P.M.	68.4	4:10 P.M.	72.2

**NOTE:** Ambient Noise Standards are taken from the Noise Pollution (Regulation & Control) Rules, 2000.

**TABLE 2.0: NIGHT TIME NOISE READINGS**

SL. NO.	PLACE	CATEGORY	AMBIENT NOISE STANDARDS [dB (A) Leq]	NOISE MONITORED			
				BEFORE DIWALI		ON DIWALI DAY	
				28 <sup>th</sup> October, 2005		1 <sup>st</sup> November, 2005	
				TIME	READING [dB (A) Leq]	TIME	READING [dB (A) Leq]
1.	Laitumkhrah (Lummawrie)	Residential	45	10:40 P.M.	50.1	10:06 P.M.	70.0
2.	Lachumiere	Residential	45	11:32 P.M.	51.4	11:23 P.M.	83.8
3.	Jaiaw Main Road	Residential	45	10:02 A.M.	53.9	09:33 P.M.	69.1
4.	Upper Mawprem	Residential	45	09:40 P.M.	51.1	09:12 P.M.	84.8
5.	Lawsotun	Residential	45	09:20 P.M.	46.7	11:50 P.M.	59.1
6.	Rilbong	Residential	45	09:25 A.M.	49.5	11:55 P.M.	70.3
7.	Lumpyngngad	Residential	45	10:59 P.M.	44.7	10:31 P.M.	45.8
8.	New Colony	Residential	45	10:31 P.M.	47.9	09:54 P.M.	71.3
9.	Tirot Singh Nagar	Residential	55	10:51 P.M.	47.5	10:15 P.M.	69.8

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10.	Laitumkhrah Bazaar	Commercial	55	10:30 P.M.	46.2	10:02 P.M.	76.6
11.	Laitumkhrah Police Point	Commercial	55	10:33 P.M.	55.8	09:56 P.M.	73.4
12.	Dhankheti	Commercial	55	10:25 P.M.	68.1	10:36 P.M.	72.3
13.	Motphran	Commercial	55	09:53 P.M.	63.3	09:30 P.M.	89.5
14.	Paltan Bazaar	Commercial	55	09:50 P.M.	49.0	09:22 P.M.	83.9
15.	Mawprem Taxi Stand	Commercial	55	09:45 P.M.	51.9	09:17 P.M.	67.6
16.	Barapathar Bazaar	Commercial	55	09:35 P.M.	62.2	09:03 P.M.	79.2
17.	Jhalupara	Commercial	55	09:36 P.M.	48.3	09:07 P.M.	91.6
18.	Iew Dak (Laban)	Commercial	55	09:10 P.M.	52.4	08:37 P.M.	68.4
19.	Last Stop	Commercial	55	09:12 P.M.	56.0	08:40 P.M.	88.9
20.	Bishnupur	Commercial	55	09:15 P.M.	58.2	08:45 P.M.	72.4
21.	Malki Point	Commercial	55	10:23 P.M.	61.6	10:38 P.M.	69.5
22.	Nongthymmai Bus Stand	Commercial	55	10:53 P.M.	63.8	10:21 P.M.	63.8
23.	Saw Lad (Band Stand)	Commercial	55	10:56 P.M.	63.3	10:23 P.M.	65.0
24.	Rynjah Bazaar	Commercial	55	10:49 P.M.	47.9	10:18 P.M.	58.6
25.	Polo Bazaar	Commercial	55	10:13 P.M.	55.3	09:43 A.M.	85.4
26.	Keating Road	Commercial	55	11:42 P.M.	52.4	08:30 P.M.	77.6
27.	Police Bazaar (Police Point)	Commercial	55	11:05 P.M.	52.0	10:42 P.M.	80
28.	Police Bazaar (R.B. Store)	Commercial	55	11:09 P.M.	51.2	10:44 P.M.	77.5
29.	Police Bazaar (Payal Cinema)	Commercial	55	11:13 P.M.	52.5	10:47 P.M.	76.3
30.	Jail Road	Commercial	55	11:18 P.M.	53.9	10:35 P.M.	81.5
31.	Nazareth Hospital	Silence Zone	40	10:35 P.M.	51.2	10:00 P.M.	63.8
32.	Don Bosco Square	Silence Zone	40	10:27 P.M.	46.7	09:58 P.M.	67.6
33.	Civil Hospital	Silence Zone	40	11:47 P.M.	63.4	11:33 P.M.	66.5
34.	K.J.P. Hospital	Silence Zone	40	10:00 A.M.	51.1	09:31 P.M.	67.6
35.	District Council	Silence Zone	40	09:48 P.M.	65.2	09:20 P.M.	81.0
36.	Mayurbanch (N.E.H.U)	Silence Zone	40	10:54 P.M.	47.5	10:26 P.M.	48.5
37.	Bethany Hospital	Silence Zone	40	10:41 P.M.	50.5	10:08 P.M.	75.1
38.	Ganesh Das Hospital	Silence Zone	40	10:11 P.M.	47.7	09:41 A.M.	71.9
39.	Main Secretariat	Silence Zone	40	10:20 P.M.	52.2	11:26 P.M.	66.5

**NOTE:** Ambient Noise Standards are taken from the Noise Pollution (Regulation & Control) Rules, 2000.

## 5.2 AMBIENT AIR QUALITY BEFORE AND DURING DIWALI FESTIVAL.

Ambient quality monitoring was carried out before and during Diwali Festival at Board's Premises (Table-1.0) and MUDA Complex, Police Bazar Shillong-1 (Table-2.0) using Respirable Dust Sampler. The recorded shows that the Suspended Particulate Matter, Respirable Particulate Matter concentrations were found to be above the permissible limits of Ambient Air Quality Standards (National) at MUDA Complex, Police Bazar Shillong as per EPA Notification: GSA 176(E), April 2002, 1996.

Further, the level of SPM in the ambient air at MUDA Complex, Police Bazar increases alarmingly during Diwali festival which represents a real danger for those already sick as well as for the healthy.

PARAMETERS TESTED (AVERAGE)	BEFORE DIWALI	DURING DIWALI
SPM ( $\mu\text{g}/\text{m}^3$ )	75.0	85.0
RSPM ( $\mu\text{g}/\text{m}^3$ )	60.5	63.3
SO <sub>2</sub> ( $\mu\text{g}/\text{m}^3$ )	BDL	BDL
NO <sub>x</sub> ( $\mu\text{g}/\text{m}^3$ )	0.19	10.7

**TABLE 1.0: AMBIENT AIR QUALITY BEFORE AND DURING DIWALI FESTIVAL ON NOVEMBER 2005 AT BOARD'S PREMISES**

**TABLE 2.0: AMBIENT AIR QUALITY BEFORE AND DURING DIWALI FESTIVAL ON**

PARAMETERS TESTED (AVERAGE)	BEFORE DIWALI	DURING DIWALI
SPM ( $\mu\text{g}/\text{m}^3$ )	187.6	432.0
RSPM ( $\mu\text{g}/\text{m}^3$ )	144.0	349.5

**NOVEMBER 2005 AT MUDA COMPLEX, POLICE BAZAR**

SO <sub>2</sub> ( $\mu\text{g}/\text{m}^3$ )	BDL	2.0
NO <sub>x</sub> ( $\mu\text{g}/\text{m}^3$ )	26.6	40.3

## 6 ENVIRONMENTAL TRAINING

The Officers & Staff of the Board attended several training courses, workshops & seminars sponsored by the Ministry of Environment and Forests, Government of India, the Central Pollution Control Board, Delhi and other agencies. The list of the Official, who attended the training programmes during the year, is given in **Annexure-VI.**

## 7 ENVIRONMENTAL RESEARCH

During the year 2005-2006, the Board continued with the following study projects:

**“Studies and Evaluation of Environmental and Socio-Impact of Coal Mining Impact in Jaintia Hills.”**

The aims of study were to evaluate the quality of ambient air, workroom environment ground water, surface water etc. The analysis of major and trace elements was also the part of the study. The scope of the project was to evolve environmentally friendly technologies and planning for reclamation of the mined degraded land together and the study the socio economic impact of these activities.

The Board initiated the Programme during 2000-2001. Under the study, two years data were generated to get the seasonal variations and trends. The preliminary report of the work done has been submitted to CPCB. The study works is continuing during the current year.

## 8 ENVIRONMENTAL AWARENESS AND PUBLIC PARTICIPATION

The Board was represented in the 13<sup>th</sup> National Children’s Science Congress – 2005 organized by the Office of Office of the State Council of Science, Technology & Environment in December 2005.

The Board has been assisting the PHE Department, the Shillong Municipal Board, etc. in monitoring water quality of Water Supply Schemes to ensure supply of safe drinking water to the public in the State. Based on the Board’s reports on water quality status, some NGOs have launched the cleaning drives of rivers in Shillong like Umshyrpi, Umkhrah and others.

## 9 ENVIRONMENTAL STANDARDS INCLUDING THE TIME SCHEDULE FOR THEIR ENFORCEMENT

The Board is adopting the standards prescribed by the Central Pollution Control Board and Ministry of Environment and Forests, Government of India. In case, the Standards of the said organizations are not available the Board follows the

standards prescribed by the Indian Standards Institution. The Board is maintaining the enforcement Schedule prescribed by the Central pollution Control Board and Ministry of Environment and Forests, Government of India in respects of 17 categories of industries. However, in case of other industries, it has its own enforcement schedule, which is specified at the time of granting of "Consent to Establish" and "Consent to operate".

## **10 PROSECUTIONS AND CONVICTIONS FOR ENVIRONMENTAL CONTROL**

### **10.1 SHOWCAUSE NOTICES ISSUED TO DEFAULTING INDUSTRIES**

During the year, 5 (five) Show Cause Notices were issued to defaulting industrial units. List is placed as **Annexure-V (A)**.

### **10.2 CLOSURE OF INDUSTRIAL POLLUTING UNIT**

During the year, 10 (ten) Closure Notices were issued to defaulting industrial units. List is appended as **Annexure-V (B)**.

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## 11 FINANCE AND ACCOUNTS OF THE BOARD

The Receipt and Payment of the Board for the financial year 2005-2006 is as shown below:

RECEIPTS A/C		PAYMENTS A/C	
<b>Opening Balance:</b>		Fixed Assets	918948.00
Cash in hand	1162.26		
Cash at bank:		<b>Other Assets:</b>	
In Saving Bank Account:		Scientific Instrument and	
With Indian Overseas Bank Shillong on:		Office appliances	56829.00
Account No. 3488	22123.36	Tools and Plants	975777.00
Account No. 425	.....		
Account No.6757	1947347.38	<b>Revenue Expenditure:</b>	
Indian Bank, Shillong	(14076.40)	Administration:	
Bank of India, Shillong on:		Pay & Allowances to	
Account No.3226	83479.00	Officers and Staff	6482200.00
Account No.3518	137138.50	Contribution to P.F.	841730.00
		Contingent	
Account No. 544	(14902.50)	Expenditure	1003540.50
Account No. 1242	7676862.47		
Account No. 1090	737442.60	Board Laboratory	34423.00
		Running and	
Account No. 1987	1633609.15	Maintenance	
Account No. 3006	160297.78	of Vehicles	172481.95
		Repair and	
Account No. 3100	3976258.25	Maintenance	5100.00
Vijaya Bank on:		Advances	74830.00
Account No. 7658	4393985	Deposits	30125.00
In Fixed Deposited Account:		Other Expenditure	415677.00
With Indian Overseas Bank Shillong	3872233	Water Cess remittance	5173.00
Bank of India, Shillong	11542133	Forest Royalty	.....
	26110846.13	House Rent	.....
		Income Tax	.....
<b>Grant Received From:</b>		Professional Tax	32200.00
Ministry of Environment & Forest, Govt.			

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of India	:	703963		Sale Tax Deducted at	
Department of Public Health Engineering	:	8245000		Source	20050.00
Central Pollution Control Board Govt. of India	:	<u>993293</u>	9942256.00	<b><u>Closing balance:</u></b>	
				Cash in hand	7451.26
				Cash at Bank:	
				In Saving Account:	
				With Indian Overseas Bank, Shillong on:	
				Account No.3488	: (22123.36)
				Account No.6757	: 2599050.38
				Indian Bank Shillong	: (14076.40)
				Bank of India Shillong on:	
				Account No.3226	: 86426.00
				Account No.3518	: 8977.85
				Account No.544	: (14902.50)
				Account No.1242	: 9529894.37
				Account No.1090	: 691275.80
				Account No.1987	: 1973290.75
				Account No.3006	: 164475.08
				Account No.3100	: 5547767.45
				Vijaya Bank on:	
				Account No.7658	: 4512461.00
				In Fixed Deposit Account:	
				With Indian Overseas Bank, Shillong	: 3872233.00
				Bank of India Shillong	: <u>1542133.00</u>
					30484333.68
<b>Grand Total Rupees</b>			<b>40577641.13</b>		<b>40577641.13</b>

**Grant in aid received from:**

other Agencies:	700000		
Fees	1830743		
Interest on Investment	717133		
Miscellaneous receipts	531782		
Miscellaneous Advances	174880		
Deposits	<u>26126</u>	3980664.00	

**Staff Recoveries/Deductions:**

House Rent		....	
Income Tax		....	
Professional Tax		32180.00	
EPF		390785.00	
GPF		80161.00	

**Other Recoveries:**

Forest Royalty		20438.00	
Sale Tax deducted at source		20311.00	

## 12 OTHER ACTIVITIES OF THE BOARD

### 1. Functions and Activities of the Board under Rules notified under the E (P) Act, 1986 are as follows:

#### a) *Hazardous Waste (Management & Handling) Rules, 1989*

- Issue of authorization for handling of hazardous waste to occupier and operators in the State.
- Preparation of inventory of hazardous waste generation in the State.
- Assisting the State Govt. in inventory of disposal sites and conduct of Environmental Impact studies.
- Monitoring of facilities/infrastructure/technical capabilities in hazardous wastes handling units.

The Board received applications for Authorization under the Rules from the following units:

1. M/S Ambika Oils (North East) Pvt. Ltd.
2. M/S R.N.B. Minerals and Chemicals (P) Ltd.
3. M/S Godrej Sara Lee Ltd.

While the application of M/S Ambika Oils (North East) Pvt. Ltd. was rejected as the unit did not possess environmentally sound technology for collection/ reception/ treatment/ transport/ storage/ disposal of used oil as prescribed in the Rules, those of the other two were being processed as the units had not provided full details along with their applications. The Authorizations of M/S Matiz Metals (P) Ltd. E.P.I.P., Byrnihat and M/S Hindustan Coca Cola Beverages (P) Ltd, Byrnihat were further renewed for periods of one year and three years respectively.

The Central Pollution Control Board – North Eastern Zonal Office conducted random verification of the information furnished in the “Draft Report on Inventorisation of Hazardous Waste Generating Units in Meghalaya” and submitted its report. Based on this report the Central Pollution Control Board, Delhi requested the Board to revise the Draft Report incorporating new format of tables for presentation of the data. The Draft Report was revised and resent to Central Pollution Control Board, Delhi for verification.

#### b) *Bio-Medical Waste (Management & Handling) Rules, 1998.*

The Board, as the prescribed authority for implementation of the Rules has to perform the following functions & activities:-

- Inventorisation of sources generating bio-medical waste.
- Issuance of authorization to institutions generating bio-medical waste.

- Monitoring of compliance to the prescribed norms and standards for handling and management of bio-medical waste by the concerned institutions.
- Advise the Government for setting up of common facility for treatment and disposal of bio-medical waste.
- Enforcement of the provisions of the Rules in the State.
- Submission of Annual Status Report on management of bio-medical waste in the State.

As the prescribed authority, the Board has undertaken the following activities in implementing the provision of the Rules:-

- As on 31-3-2006, the Board has identified 129 Health Care Facilities (HCF) generating bio-medical wastes which include Hospitals, Nursing Homes, Pathological Clinics, CHCs, PHCs, Dispensaries, and Veterinary Hospitals, etc. Of these, 129 HCFs has applied for authorization and 23 authorizations have been issued. The authorizations to 105 HCFs run by State Government have been withheld due to non-payment of the prescribed authorization fees.
- Annual Status Report for the year 2005-06 prepared on the basis of the Annual Reports submitted by the HCFs on handling and management of bio-medical wastes in the State has been submitted to the CPCB as required under the Rules.
- The Board also monitored the performance of the BMW incinerator installed at Military Hospital, Shillong.
- The Board has also taken up with the Urban Affairs Dept. for setting up of common Bio-medical waste treatment and disposal facility.
- The Board also participated in training programmes for health care personnel on bio-medical waste management conducted by the North East Indira Gandhi Regional Institute of Health & Medical Sciences.

### c) *Municipal Solid Wastes (Management & Handling) Rules, 2000*

The functions of the Board under the Rules include:-

- Issuance of Authorization to the municipal authorities or the operator of a facility for setting up of waste processing and disposal facility and landfills.
- Monitoring the performance of waste processing and disposal facility including compliance with the standards in terms of ground water, ambient air, leachate quality, compost quality, etc.
- Submission of Annual Status Report on management of MSW in the State to the Central Pollution Control Board.

As a follow-up to the Order of the Hon'ble Supreme Court of India dated 26-07-2004, with respect to Writ Petition (Civil) No.888/1996 on the matter of implementation of the Rules, the Board submitted to the Under Secretary to the Government of Meghalaya, Urban Affairs Department, the Progress Reports for the First Quarter (August - October 2004), Second Quarter (November 2004 -

January 2005) and Third Quarter (February - April 2005) relating to the direction "Scouting of suitable waste management locations by State Pollution Control Board along with concerned Municipal Authorities, Urban Development and Revenue Department".

Annual Reports on Municipal Solid Wastes management for the year 2004-05 received from Municipal Authorities were compiled and the consolidated Annual Status Report was submitted to CPCB as required under the Rules.

**d) *Batteries (Management & Handling) Rules, 2001.***

Under the Rules, the functions of the Board includes:-

- Preparation of inventory of Batteries Manufacturer, Importer, Re-conditioner, Assembler, Dealer, Re-cycler, Re-smelter & Auctioneer.
- Receipt of half-yearly returns of sales/buy back from manufacturer, importer, assembler and re-conditioner.
- Receipt of annual returns of recycling from the recyclers.
- Receipt of half-yearly returns from bulk consumers & auctioneer.
- Preparation and submission of annual compliance status report to CPCB.

Besides following up with the bulk consumers, the Board also wrote to all dealers of lead acid batteries informing them about the responsibility of dealers as mentioned in the Rules and the duties that have to be performed by the dealers, including submission of half-yearly returns in prescribed Form - V to manufacturers with a copy to the Board.

**e) *Recycled Plastics Manufacture and Usage Rules, 1999***

Under the Rules, the Board is a prescribed authority for implementation of the Rules relating to manufacture and recycling of Plastics.

The activities of the Board includes:-

- Inventorisation of industrial units manufacturing carry bags and containers made of plastics.
- Grant of registration for manufacturing carry bags or containers made of virgin or recycled plastics.
- Monitoring the industrial units for compliance to the provision of the Rules.

The Show Cause Notice to M/S Meghalaya Polythene Industries (P) Ltd. was withdrawn after the unit replied that they were manufacturers of plastic pouches only and as the Board's Notice was for manufacturers of "plastic carry bags and containers", they thought that they do fall under the purview of the Notice.

The Board also gave wide publicity to the Central Pollution Control Board's Report on "Utilization of Plastics Waste for Road Construction".

## **2. Functions and Activities under Water (Prevention & Control of Pollution) Cess Act, 1977.**

The function of the Board under the Act and Rules made there under is to assess and collect a cess from Local authorities/bodies and Industries consuming water for domestic and industrial purposes.

During the year (2005-06), the amount of cess assessment is Rs. 3, 42,565.00 (Rupees Three lakhs forty two thousand five hundred sixty five) only and cess collection is Rs. 51, 396.00 (Rupees Fifty one thousand three hundred ninety six) only. The cess collection is less to assessment in view of the fact that the local authorities' viz. SMB & GHADC has not made any payment to the cess bills submitted to them.

The cess collected is remitted to the consolidated fund of India through Ministry of Environment & Forests, Government of India.

## ANNEXURES

### ANNEXURE-I

#### LIST OF BOARD MEMBERS FOR THE PERIOD 2005-2006

1. Chairman  
Meghalaya State Pollution Control Board, Shillong. : Chairman
2. Member Secretary,  
Meghalaya State Pollution Control Board : Member Convener

#### OFFICIAL MEMBERS

3. Chief Engineer  
Public Health Engineering, Meghalaya, Shillong *or his* : Member  
nominee
4. The Director of Industries,  
Meghalaya, Shillong *or his* nominee : Member
5. The Director of Health Services (Research, etc),  
Meghalaya, Shillong *or his* nominee : Member
6. The Director, Urban affairs,  
Meghalaya, Shillong *or his* nominee : Member
7. Chief Conservator of Forests (Social Forestry &  
Environment) Meghalaya, Shillong *or his* nominee : Member

#### MEMBERS FROM LOCAL AUTHORITIES

8. The Chief Executive Member,  
Khasi Hills Autonomous District Council *or his* nominee : Member
9. The Chief Executive Member,  
Jaintia Hills Autonomous District Council *or his* nominee : Member
10. The Chief Executive Member,  
Garo Hills Autonomous District Council *or his* nominee : Member
11. The Chairman,  
Shillong Municipal Board *or his* nominee : Member
12. The Chairman,  
Tura Municipal Board *or his* nominee : Member

#### REPRESENTATIVES FROM CORPORATIONS

13. The Managing Director, : Member

Meghalaya Industrial Development Corporation *or* his nominee

14. The Managing Director, : Member  
Mineral Development Corporation, Meghalaya *or* his  
nominee

**NON-OFFICIAL MEMBERS**

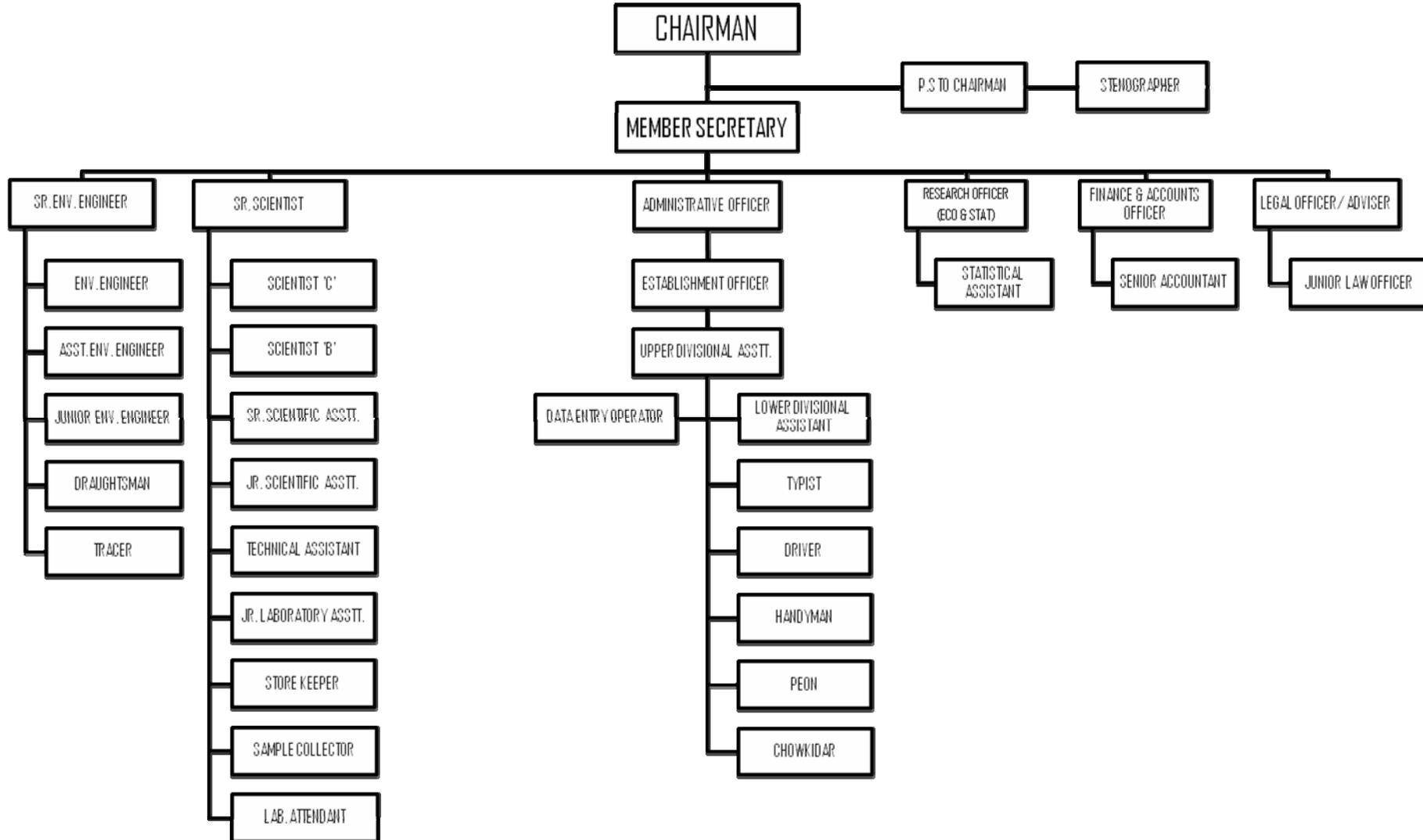
15. Shri S.G.Lyngdoh, : Member  
Mawlai Nonglum, Shillong
16. Shri N.D. Shullai : Member  
Jaiaw Pdeng, Shillong
17. Shri D.S.Laloo, : Member  
Moodiap, Nartiang, Jowai.
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ORGANISATIONAL CHART



**ANNEXURE-III****STAFF POSITION OF THE MEGHALAYA STATE POLLUTION CONTROL BOARD AS ON 31<sup>ST</sup> MARCH 2006**

SL. NO.	NAME OF POST	SANCTIONED STRENGTH	WORKING STRENGTH	VACANCY
<b>ADMINISTRATIVE &amp; ACCOUNTS STAFF</b>				
1.	Administrative Officer	1	-	1
2.	Private Secretary to Chairman	1	-	1
3.	Scientist 'B' (Eco. & Stat.)	1	-	1
4.	Legal Officer	1	-	1
5.	Junior Law Officer	1	-	1
6.	Finance & Accounts Officer	1	-	1
7.	Senior Accountant	1	1	-
8.	Junior Accountant	2	1	1
9.	Establishment Officer	1	1	-
10.	Stenographer Grade II	1	1	-
11.	Statistical Assistant	1	1	-
12.	U.D.A.	4	2	2
13.	L.D.A.	7	2	5
14.	L.D.A cum Typist	5	3	2
15.	Typist	4	1	3
16.	Library Assistant	1	-	1
17.	Driver	6	5	1
18.	Handyman	1	-	1
19.	Peon / Mali / Plumber	15	8	7
20.	Chowkidar	3	2	1
<b>TECHNICAL STAFF</b>				
1.	Sr. Environmental Engineer	1	1	-
2.	Environmental Engineer	2	2	-
3.	Asstt. Environmental Engg.	5	3	2
4.	Junior Environmental Engineer	1	1	-
5.	Senior Draftsman	1	-	1
6.	Tracer	2	-	2
7.	Data Entry Operator	1	-	1
<b>SCIENTIFIC STAFF</b>				
1.	Sr. Scientist	1	1	-
2.	Scientist "C"	1	1	-
3.	Scientist "B"	3	2	1
4.	Scientific Assistant (Senior)	1	1	-
5.	Junior Scientific Asstt.	7	2	5
6.	Technical Assistant	2	1	1
7.	Junior Laboratory Asstt.	4	2	2
8.	Storekeeper	1	1	-
9.	Sample Collector	5	5	-
10.	Field Attendant/Laboratory Attendant	3	2	1
<b>TOTAL</b>		99	53	46

**ANNEXURE-IV (A)**

**LIST OF INDUSTRIES WHICH APPLIED FOR CONSENT TO ESTABLISH DURING 2005-2006**

1. Milestone Concrete Pvt. Ltd.
2. Sun's Stone Crusher
3. A.T.C Cera Chem Pvt. Ltd.
4. Scooter Repairing Centre
5. Paras Singh Stone Crusher
6. Kim Hyundai Service Station
7. Wolflang Shylla, C.Shylla
8. P.Shylla
9. Dishnet Wireless Ltd. - Police Bazar
10. Dishnet Wireless Ltd. - Nongthymmai
11. Dishnet Wireless Ltd. - Laitumkhrah
12. Dishnet Wireless Ltd. - Malki
13. Dishnet Wireless Ltd. - Laban
14. Dishnet Wireless Ltd. - Nongmynsong
15. Dishnet Wireless Ltd. - Mawlai
16. Meghalaya Cements Ltd. - Nongsing Mine
17. Meghalaya Cements Ltd. - Umrupho Walren Mine(60.0 ha)
18. Meghalaya Cements Ltd. - Mooiong Mine(4.8 ha)
19. Meghalaya Cements Ltd.-Rymai Synden Mine-Khliehjri(4.9 ha)
20. Sumarmon Lyngdoh Stone Crusher
21. Kathar Stone Crusher
22. Dishnet Wireless Ltd - Garikhana
23. Pyngrope Stone Crusher
24. W.Kharumnuid Stone Crusher
25. Balaji Flour Mill
26. Warjri Stone Crusher
27. A.S.Kynta Automobile
28. Bliss Lime Kiln
29. Meghalaya Coke & Chemicals (P) Ltd.
30. Bethel Lime Enterprise
31. MeSEB - Umtru/Umtrew Hydrel Project
32. L.G.M.Lime Kiln (P) Ltd.
33. Catherine Mynsong Motor Works
34. Lafarge Umiam Mining - 67.92 Hectares(Shale&Siltstone)
35. Burahia Steel Alloy (P) Ltd.
36. K.K.Marak Stone Crusher
37. MCCL - Mineral Based
38. Speed Tech

39. Kundil Jaintia Cements Ltd.
40. Grace Industries
41. B.Kongri Lime Kiln
42. Dishnet Wireless Ltd.-Jailroad
43. Marak Stone Crusher
44. B.B.Enterprise
45. MCCL - Plant Expansion
46. K.War Lime Industry
47. T.K.Stone Crusher
48. MeSEB
49. Water Treatment Plant
50. Marbaniang Mineral Industries
51. M.D.Enterprise
52. Daya Ram Sharma Crusher
53. S.K.Kharkongor Flour Mill
54. Maikhuli Stone Crusher
55. Jaintia Coke Pvt. Ltd.
56. Edwell Dkhar Stone Crusher - Maikhuli 'B'
57. Edwell Dkhar Stone Crusher - Unit 'F'
58. Edwell Dkhar Stone Crusher - Unit 'G'
59. Edwell Dkhar Stone Crusher - Unit F(B)
60. Edwell Dkhar Stone Crusher - Unit H(B)
61. Edwell Dkhar Stone Crusher - Unit I(B)
62. Niraj Agarwal Crusher
63. Hanny Fibre Pvt. Ltd.
64. Cements Manufacturing Co. Ltd.
65. La Chit Boro Stone Crusher
66. Lyngdoh Engineer's Building Co. (P) Ltd.
67. Lucky Stone Industry
68. S.K.Stone Crusher
69. Ar Shyrti Feed Mill
70. A.H. & Vet. Deptt. (Ganol, Tura)
71. Jaintia Briquetting
72. Beru G. Momin Crusher
73. Sailaja Commercial Stone Crushing Industry
74. Lipon Crusher
75. Marba Servicing
76. Wahlang & Sons Re-treading Unit
77. Jayshree Mines & Minerals
78. Dishnet Wireless Ltd.-Moosalynghat,Jowai
79. Dishnet Wireless Ltd.- Mawlai Umthlong
80. Dishnet Wireless Ltd.- Laitkor
81. Dishnet Wireless Ltd-Mission Comp,Jowai
82. Kshiar Enterprise

83. Kshiar Enterprise
84. Kshiar Enterprise
85. Kshiar Enterprise
86. Light & Thunder (Bikash Mahajan)
87. Dishnet Wireless Ltd. - Khliehriat-LAD SUTNGA
88. Dishnet Wireless Ltd. - Khliehriat
89. Ryntathiang Bakery
90. Hi-Tech Concretes
91. Dishnet Wireless Ltd. - Umlyngka
92. Dishnet Wireless Ltd. - Police Bazar
93. Wansaka Lime Calcimates Pvt. Ltd.
94. R.N.Fragrances Pvt. Ltd.
95. Ishaan Technologies Pvt. Ltd.
96. Cherra Lime
97. T.G.Industries
98. S.K.Associates
99. Maithan Alloys Ltd. (Power Plant)
100. Maithan Alloys Ltd. (Ferro Manganese)
101. G.R.Industries
102. Umadutt Industries Ltd.
103. Jaintia Hills Power Ltd.
104. Best Synergy (P) Ltd.
105. Aye Polymers Pvt. Ltd.
106. Sadia Industry
107. Bharti Hexacom
108. Bharti Hexacom
109. Bharti Hexacom
110. Bharti Hexacom
111. Bharti Hexacom
112. Lucina D.Sangma Stone Crusher
113. Shanbor Marwein Stone Crusher
114. S.B.Industries
115. T.Lakhmi Stone Crusher

## ANNEXURE-IV (B)

### LIST OF UNITS WHERE CONSENT TO ESTABLISH ISSUED DURING 2005-2006

1. M/s S. Synrem Lime Kiln
2. Control Marbaniang Lime Kiln
3. Diengdoh Lime Kiln
4. Auto Mech
5. Pynursla Lime Products
6. Imperial Granite
7. Willisnara Marwein
8. Parbest Rangslang Stone Crusher
9. [Oxford Packaging Pvt Ltd.](#)
10. Satya Megha Ispat (P) Ltd.

**ANNEXURE – IV (C)****LIST OF UNITS WHERE CONSENT TO OPERATE ISSUED DURING 2005-2006**

1. Precision Engineering Works
2. Doque Auto Centre
3. Manbha Body Construction
4. Bimla Ispat & Alloys (P) Ltd.
5. Cements Manufacturing Co. Ltd.
6. Tyllilang Production Stone Processing Unit
7. Shree Sai Prakash Alloys Pvt. Ltd.
8. Meghalaya Cements Ltd.
9. Nodrowell & Daughters Bakery & Confectioners
10. Riangdo Veneers Pvt. Ltd.
11. Shree Sarvamayee Products Alloys Pvt. Ltd.
12. Dynaroom Pvt. Ltd.
13. Anirudha Steel (P) Ltd. 450 (A)- Anirudha Steel (P) Ltd. (MS Ingots)
14. M.D.H Beverages
15. Meghalaya Alloys Pvt. Ltd.-MS Ingots&Rolling Mills
16. Surya Alloys Industries (P) Ltd.
17. Servell Enterprise
18. Ishaan Technologies
19. Sangma Stone Crusher
20. H.K.S.Stone Crusher Plant
21. Meghalaya Carbide & Chemical Products
22. Vishal Saw-cum-Veneer Mill Pvt.Ltd.
23. Bomber Cement Plant
24. Forbes Aquamall Ltd.
25. Bijoy Industries (Cashew Nut)
26. Eastern Petro Chemicals - LPG
27. Riangdo Veneers Pvt. Ltd.
28. MeSEB, Umiam, Stage - I & II Power Station
29. Ali Asgar Stone Crusher Machine, Good Luck Coal Exports - (I)
30. Virgo Cements Ltd.
31. Shree Sai Smelters (India) Pvt. Ltd.
32. Pawan Ispat (P) Ltd.
33. Skybath K. Sangma Stone Crushing Unit
34. Syiem Auto Workshop
35. Greystone Ispat (P) Ltd.
36. Cess of Umiam Calcimates

37. Commercial Iron & Steel (P) Ltd.,
38. Dhiren Das Ashok Engineering/K.K.Barua Motor Car Repairing
39. Stone Crusher Unit (Akshay Kr. Hajong)
40. Cherub Naturals Pvt. Ltd.
41. Omni Agate Systems (P) Ltd. (Closed)
42. Fruit Preservation Centre, Shillong.
43. Nalari Ferro Alloys (P) Ltd.
44. Dameri Enterprise
45. S.S.Bakery
46. Ali Asgar Stone Crusher Machine, Good Luck Coal Exports -  
(II)
47. Good Luck Coal Export
48. Indian Oil Corporation Ltd. (Assam Oil)
49. Shivam Ispat & Alloys (P) Ltd.
50. Bimla Ispat & Alloys (P) Ltd.
51. RKB Mini Cement Plant
52. Megha Plast Pvt. Ltd.
53. K.K.Beverages Pvt. Ltd.
54. Shree Sai Rolling Mills (Indis) Pvt. Ltd. (TMT)
55. Meghalaya Carbide & Chemical Products
56. NEZONE Industries Ltd.
57. Megha Plastics Pvt. Ltd.
58. Matiz Metals Pvt. Ltd.
59. Megha Industries & Agro Products (P) Ltd.
60. Modrina Stone Crusher
61. Maithan Smelters (P) Ltd.-Oxygen Plant
62. City Motor Works
63. S.Suting, Nongthymmai, Mawsmmai
64. Shree Radha Creations Pvt. Ltd.
65. Sohpieng Laitmon Lime Work
66. Studio 223, Jopsimon Phanbuh
67. Dhiren Das Ashok Engineering/K.K.Barua Motor Car Repairing
68. Byrnihat Oxygen Pvt. Ltd.
69. Shivani Ispat & Rolling Mills (P) Ltd.
70. Marak Plastics
71. Brahmaputra Wire Products
72. RKB Mini Cement Plant
73. R.N.B Carbides & Ferro Alloys
74. Modrina Auto Enterprise
75. MeSEB, Umiam, Stage - I & II Power Station
76. Cynthia E.Rynjah Bakery
77. Shyam Century Ferrous Ltd.,
78. Brahmaputra Wire Products
79. North East Powerline Industries

80. Virgo Cements Ltd.
81. Cements Manufacturing Co. Ltd.
82. H.M.Cements Ltd.
83. Godrej Saralee Ltd.
84. N.L.Cold Storage Pvt. Ltd.
85. R.N.B Carbides & Ferro Alloys
86. Mawmluh Cherra Cements Ltd.(MCCL)
87. Northeast Bottling Plant
88. Meghalaya Electronics Development Corporation (MEDC)
89. Timpack (P) Ltd.
90. S.S.Bakery
91. Regetta Foods Pvt. Ltd.
92. Bomber Cement Plant
93. Stone Crusher (Mawlyngngad)
94. Nezone Steels (Meghalaya) Ltd.
95. J.L.Basaiawmoit/Joe Motor Automobiles
96. Goenka Engineering Works
97. Pioneer Carbide (P) Ltd.
98. Brilsilain Kharmawphlang
99. Cherub Naturals Pvt. Ltd.
100. Shree Sai Rolling Mills (Indis) Pvt. Ltd. (TMT)
101. Dishnet Wireless Ltd. - Nongmynsong
102. Forbes Aquamall Ltd.
103. Shree Sarvamayee Products Alloys Pvt. Ltd.
104. RNB Minerals & Chemicals-Ferric & Non- Ferric Alum
105. Bijoy Industries (Cashew Nut)
106. Wood's Garage
107. RKB Mini Cement Plant
108. Maithan Smelters (P) Ltd.-Oxygen Plant
109. Skybath K. Sangma Stone Crushing Unit
110. ATC Agro Industries Ltd.
111. Hindustan Coca-Cola Beverages (P) Ltd. - Main file
112. Megha Industries & Agro Products (P) Ltd.
113. Stone Crusher Unit (Akshay Kr. Hajong)
114. Meghalaya Ispat Sheet Ltd.
115. Shivam Ispat & Alloys (P) Ltd.
116. Shree Sarvamayee Products Alloys Pvt. Ltd.
117. Regetta Foods Pvt. Ltd.
118. Shree Sai Smelters (India) (P) Ltd.
119. Forbes Aquamall Ltd.
120. Adhunik Meghalaya Steel (P) Ltd.
121. Ajit Kr. Jana
122. Modrina Auto Enterprise
123. Servell Enterprise

124. J.S.Bakery & Confectionery
125. Shiromani Food Products Pvt. Ltd.
126. Eastern Panorama Offset Press
127. Mahabir Flour Mill
128. Mansan Fruit Products
129. Gee-See-Kaa Stone Crushing Unit
130. RNB Minerals & Chemicals-Ferric & Non- Ferric Alum
131. H.K.S.Stone Crusher Plant
132. S.K.Abdullah Stone Crusher
133. R.N.B Carbides & Ferro Alloys
134. Syiem Auto Workshop
135. Dameri Enterprise
136. Ganpati Rolling Mills (P) Ltd.,
137. Megha Polycon (P) Ltd.
138. Meghalaya Cast & Alloys (P) Ltd.
139. Meghalaya Steel (P) Ltd., Steel Rolling Mill
140. Mawmluh Cherra Cements Ltd.(MCCL)
141. Meghalaya Bamboo Chips Ltd.
142. Commercial Iron & Steel (P) Ltd.,
143. J.Saw & Mill Pvt. Ltd.
144. Gita Ferro Alloys Pvt. Ltd.
145. Dees Chemicals Pvt. Ltd.

**ANNEXURE –IV (D)****LIST OF UNITS WHICH HAVE RECEIVED RENEWAL OF CONSENT TO ESTABLISH DURING 2005- 2006**

1. M/S PAWAN CASTINGS (MEGHALAYA) PVT. LTD
2. M/S BYRNIHAT SPRINGS LTD.
3. M/S PYRBOT MOTOR WORKSHOP
4. M/S NONGRUM MOTOR WORKSHOP
5. M/S DYMPEP STONE CRUSHER
6. M/S JAI PLASTECH PVT. LTD.
7. M/S P.KHARKONGOR STONE CRUSHER
8. M/S MAHABIR FOODS LTD
9. M/S AYURVEDIC PRODUCTS
10. M/S CONTINENTAL VENEER & SAW MILLS
11. M/S EASTERN SERVICING GARRAGE
12. M/S HIRCON ASSOCIATES PVT. LTD
13. M/S R.KHARUMNUID STONE CRUSHER
14. M/S BYRNIHAT MINI FLOUR MILL
15. Mirullah & Sons Bakery (need to be verified from file)
16. Byrnihat Wood Industries Pvt.Ltd.
17. Caspiancy Synrem Lime Kiln
18. Tariang Body Builder
19. Kamakshi Ispat Pvt. Ltd. (Ferro Alloy)(Formerly B.S. Smelters)
20. Surya Alloys Industries (P) Ltd.
21. Phassimai Syiem Stone Crushing Unit
22. Shree Sai Smelters (India) (P) Ltd.
23. Shillong Veneer & Saw Mill Pvt. Ltd.
24. D.Rymbai Lime Products
25. N.R.Roller Flour Mills Co.(P) Ltd.,
26. North Eastern Regional Agricultural Marketing Corpn. Ltd-NERAMAC(Ginger Processing Plant)
27. Continenetal Veneer & Saw Mill
28. City Motor Works
29. Trikutta Ferro Alloys Pvt. Ltd.
30. Shemlin Mawrie Stone Crusher
31. Brilsilain Kharmawphlang Bakery
32. T.T.M.Bakery Unit
33. Virgo Cements Ltd.
34. Mini Tea Processing Unit
35. Byrnihat Oxygen Pvt. Ltd.
36. Sierra Motors(need to be verified from file)
37. Bashai Motor Works
38. BipulCh.Sangma Stone Crusher Machine

39. R.K Motors
40. Martin Stone Crusher
41. Dynasty Motors Pvt. Ltd
42. B.Rymbai Lime Industry
43. Nongrum Motor Workshop(need to be verified from file)
44. Donny Ryan N.Sangma Servicing Workshop
45. D.Lyngkhoi Automobile Workshop
46. Shree Sai Prakash Alloys Pvt. Ltd. (Integrated Steel Plant)
47. Blah Black Stone Products
48. La-I-Sap-Auto Service- Eddy D.Nengnong
49. W.D.Stone Crusher
50. Megha Plast Pvt. Ltd.
51. Forbes Aquamall Ltd.
52. Trikutta Ferro Alloys Pvt. Ltd.
53. Meghalaya Alloys Pvt. Ltd.-MS Ingots&Rolling Mills
54. Edwel Dkhar Stone Crusher Unit
55. Catherine Mynsong Motor Works
56. B.K.Saw-cum-Veneer Mills Pvt. Ltd.
57. Wolflang Shylla, C.Shylla Lime Kiln
58. P.Shylla Lime kiln
59. Sun's Stone Crusher
60. Honsen Lyngdoh Crusher
61. Hotel Phresila - Cum- Shopping & Arcade
62. Shree Sai Prakash Alloys Pvt. Ltd.
63. THRILLS Fun Park
64. Kelson War & Sons Lime Kiln Unit
65. Nongrum Motor Workshop
66. Pyrbot Motor Workshop
67. R.Kharpran Stone Crusher
68. Mehun Dkhar Stone Crusher
69. Seshu Nutrition Pvt. Ltd.
70. Trishul Hi-Tech Industries
71. M.M.Enterprise Stone Crusher (Closed)
72. Sirish Sangma Stone Crushing Industry
73. Jai Kamakhya Alloys Pvt. Ltd.
74. Raja Khongsit Stone Processing Industry
75. Parambir Singh Scooter Repair Workshop
76. Byrong Limestone & Dolomite Mines
77. (MeSEB) - Lakroh Mini Hydrel Project
78. (MeSEB) Sonapani Mini Hydrel Project
79. Bharti Hexacom - Lachumiere
80. L.Madanlal Aluminium Ltd.
81. North Eastern Health Care & Hospitality Pvt. Ltd.

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82. Raja Khongsit Stone Processing Industry (need to be verified from the file)
83. Monolith Cements Pvt. Ltd.
84. Boktozama Stone Crusher
85. Flagon Distillers & Bottlers Pvt. Ltd.
86. Bol's & Bakes
87. City Motor Works
88. Shree Sai Prakash Alloys Pvt. Ltd. (Integrated Steel Plant)
89. Umiam Calcinates (consent)

**ANNEXURE – IV (E)****LIST OF UNITS WHICH HAVE RECEIVED RENEWAL OF CONSENT TO OPERATE DURING 2005- 2006**

1. Precision Engineering Works
2. Doque Auto Centre
3. Manbha Body Construction
4. Bimla Ispat & Alloys (P) Ltd.
5. Cements Manufacturing Co. Ltd.
6. Tyllilang Production Stone Processing Unit
7. Shree Sai Prakash Alloys Pvt. Ltd.
8. Meghalaya Cements Ltd.
9. Nodrowell & Daughters Bakery & Confectioners
10. Riangdo Veneers Pvt. Ltd.
11. Shree Sarvamayee Products Alloys Pvt. Ltd.
12. Dynarroof Pvt. Ltd.
13. Anirudha Steel (P) Ltd. 450 (A)- Anirudha Steel (P) Ltd. (MS Ingots)
14. M.D.H Beverages
15. Meghalaya Alloys Pvt. Ltd.-MS Ingots&Rolling Mills
16. Surya Alloys Industries (P) Ltd.
17. Servell Enterprise
18. Ishaan Technologies
19. Sangma Stone Crusher
20. H.K.S.Stone Crusher Plant
21. Meghalaya Carbide & Chemical Products
22. Vishal Saw-cum-Veneer Mill Pvt.Ltd.
23. Bomber Cement Plant
24. Forbes Aquamall Ltd.
25. Bijoy Industries (Cashew Nut)
26. Eastern Petro Chemicals - LPG
27. Riangdo Veneers Pvt. Ltd.
28. MeSEB, Umiam, Stage - I & II Power Station
29. Ali Asgar Stone Crusher Machine, Good Luck Coal Exports - (I)

30. Virgo Cements Ltd.
31. Shree Sai Smelters (India) Pvt. Ltd.
32. Pawan Ispat (P) Ltd.
33. Skybath K. Sangma Stone Crushing Unit
34. Syiem Auto Workshop
35. Greystone Ispat (P) Ltd.
36. Cess of Umiam Calcinates
37. Commercial Iron & Steel (P) Ltd.,
38. Dhiren Das Ashok Engineering/K.K.Barua Motor Car Repairing
39. Stone Crusher Unit (Akshay Kr. Hajong)
40. Cherub Naturals Pvt. Ltd.
41. Omni Agate Systems (P) Ltd. (Closed)
42. Fruit Preservation Centre, Shillong.
43. Nalari Ferro Alloys (P) Ltd.
44. Dameri Enterprise
45. S.S.Bakery
46. Ali Asgar Stone Crusher Machine, Good Luck Coal Exports - (II)
47. Good Luck Coal Export
48. Indian Oil Corporation Ltd. (Assam Oil)
49. Shivam Ispat & Alloys (P) Ltd.
50. Bimla Ispat & Alloys (P) Ltd.
51. RKB Mini Cement Plant
52. Megha Plast Pvt. Ltd.
53. K.K.Beverages Pvt. Ltd.
54. Shree Sai Rolling Mills (Indis) Pvt. Ltd. (TMT)
55. Meghalaya Carbide & Chemical Products
56. NEZONE Industries Ltd.
57. Megha Plastics Pvt. Ltd.
58. Matiz Metals Pvt. Ltd.
59. Megha Industries & Agro Products (P) Ltd.
60. Modrina Stone Crusher
61. Maithan Smelters (P) Ltd.-Oxygen Plant
62. City Motor Works
63. S.Suting, Nongthymmai, Mawsmai
64. Shree Radha Creations Pvt. Ltd.
65. Sohpieng Laitmon Lime Work
66. Studio 223, Jopsimon Phanbuh
67. Dhiren Das Ashok Engineering/K.K.Barua Motor Car Repairing
68. Byrnihat Oxygen Pvt. Ltd.
69. Shivani Ispat & Rolling Mills (P) Ltd.
70. Marak Plastics

71. Brahmaputra Wire Products
72. RKB Mini Cement Plant
73. R.N.B Carbides & Ferro Alloys
74. Modrina Auto Enterprise
75. MeSEB, Umiam, Stage - I & II Power Station
76. Cynthia E.Rynjah Bakery
77. Shyam Century Ferrous Ltd.,
78. Brahmaputra Wire Products
79. North East Powerline Industries
80. Virgo Cements Ltd.
81. Cements Manufacturing Co. Ltd.
82. H.M.Cements Ltd.
83. Godrej Saralee Ltd.
84. N.L.Cold Storage Pvt. Ltd.
85. R.N.B Carbides & Ferro Alloys
86. Mawmluh Cherra Cements Ltd.(MCCL)
87. Northeast Bottling Plant
88. Meghalaya Electronics Development Corporation (MEDC)
89. Timpack (P) Ltd.
90. S.S.Bakery
91. Regetta Foods Pvt. Ltd.
92. Bomber Cement Plant
93. Stone Crusher (Mawlyngngad)
94. Nezone Steels (Meghalaya) Ltd.
95. J.L.Basaiawmoit/Joe Motor Automobiles
96. Goenka Engineering Works
97. Pioneer Carbide (P) Ltd.
98. Brilsilain Kharmawphlang
99. Cherub Naturals Pvt. Ltd.
100. Shree Sai Rolling Mills (Indis) Pvt. Ltd. (TMT)
101. Dishnet Wireless Ltd. - Nongmynsong
102. Forbes Aquamall Ltd.
103. Shree Sarvamayee Products Alloys Pvt. Ltd.
104. RNB Minerals & Chemicals-Ferric & Non- Ferric Alum
105. Bijoy Industries (Cashew Nut)
106. Wood's Garage
107. RKB Mini Cement Plant
108. Maithan Smelters (P) Ltd.-Oxygen Plant
109. Skybath K. Sangma Stone Crushing Unit
110. ATC Agro Industries Ltd.
111. Hindustan Coca-Cola Beverages (P) Ltd. - Main file
112. Megha Industries & Agro Products (P) Ltd.
113. Stone Crusher Unit (Akshay Kr. Hajong)
114. Meghalaya Ispat Sheet Ltd.

115. Shivam Ispat & Alloys (P) Ltd.
116. Shree Sarvamayee Products Alloys Pvt. Ltd.
117. Regetta Foods Pvt. Ltd.
118. Shree Sai Smelters (India) (P) Ltd.
119. Forbes Aquamall Ltd.
120. Adhunik Meghalaya Steel (P) Ltd.
121. Ajit Kr. Jana
122. Modrina Auto Enterprise
123. Servell Enterprise
124. J.S.Bakery & Confectionery
125. Shiromani Food Products Pvt. Ltd.
126. Eastern Panorama Offset Press
127. Mahabir Flour Mill
128. Mansan Fruit Products
129. Gee-See-Kaa Stone Crushing Unit
130. RNB Minerals & Chemicals-Ferric & Non- Ferric Alum
131. H.K.S.Stone Crusher Plant
132. S.K.Abdullah Stone Crusher
133. R.N.B Carbides & Ferro Alloys
134. Syiem Auto Workshop
135. Dameri Enterprise
136. Ganpati Rolling Mills (P) Ltd.,
137. Megha Polycon (P) Ltd.
138. Meghalaya Cast & Alloys (P) Ltd.
139. Meghalaya Steel (P) Ltd., Steel Rolling Mill
140. Mawmluh Cherra Cements Ltd.(MCCL)
141. Meghalaya Bamboo Chips Ltd.
142. Commercial Iron & Steel (P) Ltd.,
143. J.Saw & Mill Pvt. Ltd.
144. Gita Ferro Alloys Pvt. Ltd.
145. Dees Chemicals Pvt. Ltd.

## ANNEXURE –V (A)

### LIST OF UNITS WHERE SHOW CAUSE ARE ISSUED AGAINST THEM DURING 2005 – 2006

1. Rivestland R. Massar Motor Works
2. Yalana Hotel
3. Arbok Nongrum Pack & Bottle (Closed)
4. King Aqua Pvt. Ltd.
5. Milestone Beverages Pvt. Ltd.

## ANNEXURE –V (B)

### LIST OF INDUSTRIES WHICH CLOSURE NOTICE IS ISSUED DURING 2005 – 2006

1. M/s S. Synrem Lime Kiln
2. Control Marbaniang Lime Kiln
3. Diengdoh Lime Kiln
4. Auto Mech
5. Pynursla Lime Products
6. Imperial Granite
7. Willisnara Marwein
8. Parbest Rangslang Stone Crusher
9. [Oxford Packaging Pvt Ltd.](#)
10. Satya Megha Ispat (P) Ltd.



## ANNEXURE-VI

TRAININGS BETWEEN 1 <sup>st</sup> APRIL 2005 UPTO 31 <sup>st</sup> MARCH 2006						
SL. NO	NAME & DESIGNATION	NAME OF TRAINING	PLACE OF TRAINING	PERIOD OF TRAINING	LETTER NO	REMARKS
1.	Shri W.R. Kharkrang, E.E	Training Programme on strategic Environmental Assessment (SEA) for mainstreaming Environment in India	Hyderabad	March 16-18, 2005	MPCB/TSC I (Pt-XVIII)/2004-2005/97 dtd. 29/07/2005	Attended
2.	Shri A.Biswa, Member Secretary & Shri W.R. Kharkrang, E.E	National Seminar & Business Meet on Fly Ash Handling & Transportation	Kolkata	October 24-25, 2005	MPCB/TSC I (Pt-XVIII)/2004-2005/133 dtd. 27/09/2005	Attended
3.	Shri A.Biswa, Member Secretary & Smti B. Majaw, E.E	Training on Physical, Chemical & Biological phenomena of waste water treatment system	I.I.T, Roorkee	November 16-20, 2005	MPCB/TSC I (Pt-XVII)/2004-2005/120 dtd. 07/09/2005	Attended
4.	Shri D. Hooroo, Member Secretary & Shri W.R. Kharkrang, E.E	Regional conference on Environment & Forests at NER	Shillong	Feb 10, 2006		Attended

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