

# ANNUAL REPORT 2010-2011



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MEGHALAYA STATE  
POLLUTION CONTROL BOARD  
SHILLONG

# **ANNUAL REPORT**



**2010 - 2011**

**Meghalaya State Pollution Control Board  
Shillong**

**Published by**

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**Printed by:**

Nangkyrsoi Enterprise  
Umsohsun community Hall,  
Shillong - 793001

## **FORWARD**

*The Annual Report of Meghalaya State Pollution Control Board 2010-2011 is the documentation of our year long activities. The Annual Report has fourteen chapters and annexures which describe the statutory mandates of the Board, its composition, organizational structure, environmental issues and activities of the Board, thus representing the present picture of the state of environment of Meghalaya.*

*I appreciate the sincerity, passion and teamwork of the officers and staff which inspite of an uphill task of the resources at our disposal, the Board could implement a plethora of activities documented in this report.*

*M. Allya  
Chairman  
Meghalaya State Pollution Control Board  
Shillong*



*“When the last tree is cut and the last fish killed,  
the last river poisoned,  
then you will see that you can’t eat money”*

- John May





## **CONTENTS**

1. INTRODUCTION	1 - 3
2. CONSTITUTION OF THE BOARD AND CHANGES THEREIN	..... 4
3. MEETINGS OF THE BOARD WITH MAJOR DECISIONS	5 - 6
4. COMMITTEES CONSTITUTED BY THE BOARD & THEIR ACTIVITIES	7 - 8
5. MONITORING NETWORK FOR AIR, WATER, AND NOISE LEVEL QUALITY MONITORING OF AIR QUALITY	9 - 30
6. PRESENT STATE OF THE ENVIRONMENT, ENVIRONMENTAL PROBLEMS AND COUNTER MEASURES.	31 - 32
7. ENVIRONMENTAL RESEARCH	33 - 34
8. ENVIRONMENTAL AWARENESS & PUBLIC PARTICIPATION	35 - 38
9. ENVIRONMENTAL STANDARDS INCLUDING THE TIME SCHEDULE FOR THEIR ENFORCEMENT	..... 39
10. PROSECUTION AND CONVICTIONS FOR ENVIRONMENTAL CONTROL	..... 40
11. CLOSURE OF INDUSTRIAL POLLUTING UNIT	..... 41
12. OTHER ACTIVITIES OF THE BOARD	42 - 45
13. PUBLICATIONS	..... 46
14. FINANCIAL SUMMARY	47 - 48
ANNEXTURES	49 - 74

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*“Mother earth is hurting. And she needs a ,  
generation of thoughtful, caring and  
active kids like all of you to protect her for the future”*

- Leonardo Dicaprio



# I INTRODUCTION

The State Board for Prevention and Control of Water Pollution, Meghalaya was constituted by the Government of Meghalaya on the 16<sup>th</sup> Day of November, 1983 in pursuance of the first environmental legislation of the country, Water (Prevention & Control of Pollution) Act, 1974. Subsequently the enforcing responsibility of the Air (Prevention & Control of Pollution) Act, 1981, 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. The State Board for Prevention and Control of Water Pollution, Meghalaya was rechristened as Meghalaya State Pollution Control Board in 1988.

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

- 1) The Water (Prevention and Control of Pollution) Cess Act, 1977, and as amended by Amendment Act in 1991.
- 2) The Water (Prevention and Control of Pollution) Cess Rules, 1978.
- 3) The Hazardous Waste (Management and Handling) Rules, 1989.
- 4) The Manufacture, Storage and Import of Hazardous Chemicals Rules, 1989.
- 5) The Manufacture, Use, Import, Export & Storage of Hazardous Micro organism or Cells Rules, 1989.
- 6) The Public Liability Insurance Act, 1991.
- 7) The Environmental Impact Assessment Notification, 2006 and Amendments 2009.
- 8) The Chemical Accidents (Emergency Planning, Preparedness & Response) Rules, 1996.
- 9) The Bio-Medical Wastes (Management & Handling) Rules, 1998
- 10) The Recycled Plastics Manufacture and Usage Rules, 1999.
- 11) The Fly Ash Notification, 1999.
- 12) The Noise Pollution (Regulation and Control) Rules, 2000.
- 13) The Ozone Depleting substances (Regulation) Rules, 2000.
- 14) The Municipal Solid Wastes (Management & Handling) Rules, 2000.
- 15) The Batteries (Management & Handling) Rules 2001.

The Board has been functioning with 68 Staff as on 31<sup>st</sup> March 2011 against a sanctioned strength of 123. The details of staff position are given in Annexure-1. The organization chart of the Board is given in Annexure-2.



The Central Office of the Board is located in 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 including implementation thereof. 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 following are some of the main activities carried out by the Board.

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

(xi) Municipal Solid Waste Management Act:

- Identification of Sources
- Characterisation & Quantification of Wastes
- Enforcement of provisions of the Rules
- Monitoring of Compliance to Standards

(xii) Batteries Management

- Identification of Sources
- Characterisation & Quantification of Wastes
- Enforcement of Provisions of the Rules
- Monitoring of Compliance to Standards

(xiii) Plastic Management :

- Identification of Sources
- Characterisation & Quantification of Wastes
- Enforcement of Provisions of the Rules
- Monitoring of Compliance to Standards

(xiv) 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 dt.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 reformed vide Notification NO.PHE.161/83/187 dt.the 24<sup>th</sup> March, 1999 & NO.PHE.161/83/205 dt.the 5<sup>th</sup> January, 2001.

The Board consists of 17 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-3.

During the financial year 2010-2011 Shri A. Biswa (till 01-10-2010) succeeded as the Chairman and and Shri M. Allya (w.e.f. 01-10-2010 till date and Shri (L) D. Hooroo (till 29-09-2010) and Shri J.H. Nengnong (w.e.f. 29-09-2010) as the Member Secretary of the Board.

## 3 MEETINGS OF THE BOARD WITH MAJOR DECISIONS

During the year 2010-2011, the Board conducted the following Meetings: -

SL NO	MEETING NO.	DATE	VENUE	NO. OF MEMBERS ATTENDING THE MEETING
1.	53 <sup>rd</sup> Board Meeting	09-07-2010	Office chamber of the Chairman, MSPCB	10 (ten)
2.	54 <sup>th</sup> Board Meeting	18-02-2011	Office chamber of the Chairman, MSPCB	7 (seven)

*The following decisions were taken in the above Meetings: -*

### **53<sup>rd</sup> BOARD MEETING:**

- The Board approved the proposal to start the establishment of the Regional Office of the Board at Garo Hills from the PHE Laboratory-cum-Training Centre at Tura.
- The Board decided that the matter of enhancement of fees as requested by the Auditor should be taken up with the Government for approval.
- The Board decided that the matter of identification of an alternative plot to locate the Hazardous Waste Treatment, Storage & Disposal facility should be taken up with the Director of Commerce & Industries and MIDC.
- The Board decided that the proposed Amendment of the Meghalaya Water (Prevention and Control of Pollution) Rules, 1996 and the Meghalaya Air (Prevention and Control of Pollution) Rules, 1998 should be sent to the Government for necessary action.
- The Board decided that the existing salary ceiling of ₹ 6500/- should be lifted and the Provident Fund contribution should be calculated on the basis of the actual monthly salary of the employee and at the rate as applicable under the EPF Scheme, 1952 as amended.
- In pursuance to the Board's decision, the matter regarding building permission from MUDA has been taken up with the concerned Agency and inspection from MUDA will be carried out on 9<sup>th</sup> July 2010.
- The Board approved the proposal for revision of rates for sampling and analysis charges of environmental samples.

**54<sup>th</sup> BOARD MEETING:**

- Fund requirement for the Regional Office has been included in the Budget for the financial year 2012.
- It was decided that the matter of identification of an alternative plot to locate the Hazardous Waste Treatment, Storage & Disposal facility should be pursued with MIDC for taking immediate necessary action as it relates to the Supreme Court Order Dtd. 14-10-2003 in WP(C) No. 657 of 1995.
- The Board approved the proposal to raise the employee's and employer's share at 12% from the wages (basic & D.A.) w.e.f. the ensuing financial year 2011-2012 and the fund requirement for the same should be projected in the Budget of the Board.
- The Board accepted and approved the proposal to undertake computerization of the office of the Board and the expenditure can be met from the Board's resources.

## 4 COMMITTEES CONSTITUTED BY THE BOARD & THEIR ACTIVITIES

The “Consent Committee” and the “Purchase Committee” of the Board are **the two committees** which were 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 List of the Consent Committee, the Purchase Committee, the Selection Committee (Grade-A) and the Promotion Committee (Grade-A), Composition of Promotion Committee (Grade-B,C and D), Assessment and Promotion Committee (Grade-B,C and D) are shown in the following tables respectively.

### MEMBERS OF THE PURCHASE COMMITTEE

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

### MEMBERS OF THE SELECTION COMMITTEE FOR GRADE – ‘A’ POSTS

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

**MEMBERS OF THE SELECTION COMMITTEE 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 GRADE – ‘A’ POSTS**

1.	Chairman Meghalaya State Pollution Control Board, Shillong.	: Chairman
2.	Chief Administrative Officer, O/o the C.E., P.H.E. Deptt., Meghalaya, 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 GRADE - ‘B’, ‘C’ & ‘D’ POSTS**

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

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

## MONITORING OF AIR QUALITY

### 5.1 AIR QUALITY MONITORING

The Meghalaya State Pollution Control Board is monitoring the Ambient Air Quality at 5 (five) stations in the state under National Air Monitoring Programme (NAMP) sponsored by CPCB. The frequency of monitoring is twice a week. Particulate Matter (PM10), 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 stations and the observations are presented in tables below:-

**Table : 5.1.1 Ambient Air Quality data monitored during 2010-2011 at Board's Office Premises, Lumpyngngad, Shillong (Station – I)**

MONTH & YEAR	PARAMETERS (MONTHLY AVERAGE)			Permissible Limits (Annual avg.)	
	PM10 (µg/m <sup>3</sup> )	SO <sub>2</sub> (µg/m <sup>3</sup> )	NO <sub>x</sub> (µg/m <sup>3</sup> )	Pollutants	Concentrations (µg/m <sup>3</sup> )
APRIL '10	45.4	2.0	4.5	PM10	60
MAY '10	57.9	2.0	4.5	SO <sub>2</sub>	50
JUNE '10	56.9	2.0	4.5	NO <sub>x</sub>	40
JULY '10	47.3	2.0	4.5	<i>Permissible limits of Ambient Air Quality Standards as per EPA Notification GSR 826(E), dated 16<sup>th</sup> Nov. 2009.</i>	
AUGUST '10	51.2	2.0	4.5		
SEPTEMBER '10	49.7	2.0	4.5		
OCTOBER '10	60.1	2.0	4.5		
NOVEMBER '10	60.3	2.0	4.5		
DECEMBER '10	62.4	2.0	4.5		
JANUARY '11	66.6	2.0	7.4		
FEBRUARY '11	70.3	2.0	4.7		
MARCH '11	52.6	2.0	4.5		
Annual Avg.	56.7	2.0	4.7		



**Table : 5.1.2 Ambient Air Quality data monitored during 2010-2011 at MUDA Complex, Police Bazar, Shillong (Station – II)**

MONTH & YEAR	PARAMETERS (MONTHLY AVERAGE)			Permissible Limits (Annual avg.)	
	PM10 ( $\mu\text{g}/\text{m}^3$ )	SO <sub>2</sub> ( $\mu\text{g}/\text{m}^3$ )	NO <sub>x</sub> ( $\mu\text{g}/\text{m}^3$ )	Pollutants	Concentrations ( $\mu\text{g}/\text{m}^3$ )
APRIL '10	99.3	2.0	9.5	PM10	60
MAY '10	107.9	2.0	9.1	SO <sub>2</sub>	50
JUNE '10	173.6	2.0	12.6	NO <sub>x</sub>	40
JULY '10	96.0	2.0	12.9	<i>Permissible limits of Ambient Air Quality Standards as per EPA Notification GSR 826(E), dated Nov. 2009.</i>	
AUGUST '10	103.1	2.0	16.2		
SEPTEMBER '10	106.7	2.0	19.2		
OCTOBER '10	95.2	2.0	18.6		
NOVEMBER '10	106.2	2.0	15.0		
DECEMBER '10	108.6	2.0	20.9		
JANUARY '11	111.7	2.6	13.2		
FEBRUARY '11	106.3	5.1	20.8		
MARCH '11	101.9	5.1	19.7		
Annual Avg.	<b>109.7</b>	<b>2.5</b>	<b>15.6</b>		

**Table : 5.1.3 Ambient Air Quality data monitored during 2010-2011 at EPIP,  
Byrnihat, Ri-Bhoi District (Station – III)**

MONTH & YEAR	PARAMETERS (MONTHLY AVERAGE)			Permissible Limits (Annual avg.)	
	PM10 ( $\mu\text{g}/\text{m}^3$ )	SO <sub>2</sub> ( $\mu\text{g}/\text{m}^3$ )	NO <sub>x</sub> ( $\mu\text{g}/\text{m}^3$ )	Pollutants	Concentrations ( $\mu\text{g}/\text{m}^3$ )
APRIL '10	183.2	77.7	11.3	PM10	60
MAY '10	172.1	87.1	15.0	SO <sub>2</sub>	50
JUNE '10	163.0	81.6	9.8	NO <sub>x</sub>	40
JULY '10	183.3	67.8	18.8	<p><i>Permissible limits of Ambient Air Quality Standards as per EPA Notification GSR 826(E), dated Nov. 2009.</i></p>	
AUGUST '10	185.1	80.9	14.4		
SEPTEMBER '10	170.6	-	16.6		
OCTOBER '10	193.1	-	16.4		
NOVEMBER '10	163.4	89.9	12.8		
DECEMBER '10	162.5	81.8	20.0		
JANUARY '11	200.4	-	23.0		
FEBRUARY '11	211.5	-	18.5		
MARCH '11	236.4	-	19.4		
Annual Avg.	<b>185.3</b>	<b>80.9</b>	<b>16.3</b>		

**Table : 5.1. 4**

**Ambient Air Quality data monitored during 2010-2011 at Dawki,  
Jaintia Hills District (Station – IV)**

MONTH & YEAR	PARAMETERS (MONTHLY AVERAGE)			Permissible Limits (Annual avg.)	
	PM10 ( $\mu\text{g}/\text{m}^3$ )	SO <sub>2</sub> ( $\mu\text{g}/\text{m}^3$ )	NO <sub>x</sub> ( $\mu\text{g}/\text{m}^3$ )	Pollutants	Concentrations ( $\mu\text{g}/\text{m}^3$ )
APRIL '10	56.4	2.0	4.9	PM10	60
MAY '10	-	-	-	SO <sub>2</sub>	50
JUNE '10	49.0	2.4	5.3	NOx	40
JULY '10	40.1	2.0	4.5	<i>Permissible limits of Ambient Air Quality Standards as per EPA Notification GSR 826(E), dated Nov. 2009.</i>	
AUGUST '10	52.6	2.2	5.2		
SEPTEMBER '10	61.2	2.0	4.5		
OCTOBER '10	59.8	2.0	5.9		
NOVEMBER '10	91.1	2.0	6.9		
DECEMBER '10	105.3	2.0	5.5		
JANUARY '11	95.2	2.0	9.3		
FEBRUARY '11	84.3	2.0	5.9		
MARCH '11	66.4	2.0	9.5		
Annual Avg.	<b>69.2</b>	<b>2.0</b>	<b>6.1</b>		

**Table : 5.1.5 Ambient Air Quality data monitored during 2010-2011  
at Tura, West Garo Hills District (Station – V)\***

MONTH & YEAR 2010-2011	<i>Permissible Limits (Annual avg.)</i>				
	PM10 ( $\mu\text{g}/\text{m}^3$ )	SO <sub>2</sub> ( $\mu\text{g}/\text{m}^3$ )	NO <sub>x</sub> ( $\mu\text{g}/\text{m}^3$ )	Pollutants	Concentrations ( $\mu\text{g}/\text{m}^3$ )
APRIL '10	82.7	2.0	11.7	PM10	60
MAY '10	86.1	2.0	10.0	SO <sub>2</sub>	50
JUNE '10	98.3	2.0	11.8	NO <sub>x</sub>	40
JULY '10	87.7	2.0	14.1	<i>Permissible limits of Ambient Air Quality Standards as per EPA Notification GSR 826(E), dated Nov. 2009.</i>	
AUGUST '10	74.2	2.0	4.5		
SEPTEMBER '10	80.9	2.0	9.1		
OCTOBER '10	90.0	2.0	11.4		
NOVEMBER '10	136.2	2.0	14.1		
DECEMBER '10	157.0	2.0	15.4		
JANUARY '11	124.5	2.0	14.0		
FEBRUARY '11	188.0	2.0	17.0		
MARCH '11	151.4	2.0	15.3		
<b>AnnualAvg.</b>	<b>113.0</b>	<b>2.0</b>	<b>12.3</b>		

**(A) 5.2 STATE AMBIENT AIR MONITORING PROGRAMME:**

The Board has established an Ambient Air Quality Monitoring station at Umiam Industrial area under State Air Quality Monitoring Programme (SAMP) during August 2009. The objective of the programme is to determine the status & trends of ambient air quality to ascertain whether the presented ambient air quality standards are violated. The results obtained during monitoring are depicted as follows:-

**Table : 5.2.1 State Ambient Monitoring Programme (SAMP)  
at Umiam Industrial Estate, Ri-Bhoi District.**

MONTH & YEAR 2010-2011	<i>Permissible Limits (Annual avg.)</i>					
	PM10 ( $\mu\text{g}/\text{m}^3$ )	SO <sub>2</sub> ( $\mu\text{g}/\text{m}^3$ )	NOx ( $\mu\text{g}/\text{m}^3$ )	Pollutants	Concentrations ( $\mu\text{g}/\text{m}^3$ )	
APRIL '10	82.7	2.0	11.7	PM10	60	
MAY '10	86.1	2.0	10.0	SO <sub>2</sub>	50	
JUNE '10	98.3	2.0	11.8	NOx	40	
JULY '10	87.7	2.0	14.1	<i>Permissible limits of Ambient Air Quality Standards as per EPA Notification GSR 826(E), dated Nov. 2009.</i>		
AUGUST '10	74.2	2.0	4.5			
SEPTEMBER '10	80.9	2.0	9.1			
OCTOBER '10	90.0	2.0	11.4			
NOVEMBER '10	136.2	2.0	14.1			
DECEMBER '10	157.0	2.0	15.4			
JANUARY '11	124.5	2.0	14.0			
FEBRUARY '11	188.0	2.0	17.0			
MARCH '11	151.4	2.0	15.3			
<b>Annual Avg.</b>	<b>113.0</b>	<b>2.0</b>	<b>12.3</b>			

**(A) 5.3 AIR QUALITY MONITORING FOR SOME INDUSTRIES**

The Board carried out ambient air quality (Table 5.3.1) and source emission (Table 5.3.2) monitoring for some industrial units operating in the state. The following results were obtained during the monitoring for the period 2010-2011.

**Table: 5.3.1 Ambient Air Quality data.**

Sl. No.	Name of Industry/Location	Sampling Station	Date of Sampling	PM <sub>10</sub> (ug/m <sup>3</sup> )	SO <sub>2</sub> (ug/m <sup>3</sup> )	NO <sub>x</sub> (ug/m <sup>3</sup> )	Remarks
1.	M/s Hills Cements Company Ltd., Mynkre	Near CCR	04.05.10	75.2	2.0	6.7	W
		Near Cement mill	04.05.10	70.8	2.0	13.4	W
		Guest house	05.05.10	89.3	2.0	9.5	W
2.	M/s Lafarge Umiam Mining (P) Ltd., Nongtraï, Shella.	Office premises	26.05.10	87.3	2.0	4.5	W
		Mining area(Quarry)	26.05.10	26.5	2.0	4.5	W
		Phlangkaruh village	26.05.10	44.1	2.0	4.5	W
		Pyrkan village	26.05.10	41.5	2.0	4.5	W
		Shella Bazar	27.05.10	55.8	2.0	4.5	W
3.	M/S Cement Manufacturing Company Ltd., Lumshnong.	Guest house	10.08.10	40.5	8.4	15.4	W
		Pump house	10.08.10	33.4	11.1	12.2	W
		Security gate No. 2	10.08.10	35.7	7.0	12.5	W
4.	M/S Adhunik Cements Ltd., Thangskai.	Near Temporary Hospital	24.08.10	106.4	5.3	4.5	A
		Near Power plant	25.08.10	137.3	5.6	4.5	A
		Near Coal mill	25.08.10	110.4	16.1	6.0	A
5.	M/S Meghalaya Cements Ltd., Lumshnong.	Guest House	08.02.11	91.6	14.4	11.7	W
		Near CCR	08.02.11	401.3	5.7	32.8	A
		Near DG Set	09.02.11	305.8	4.1	21.5	A
6.	M/S Jaintia Cements, Sutnga.	(Near Kiln stack	15.02.11	86.5	2.0	16.5	W
		Guest house	15.02.11	152.6	2.0	13.5	A
7.	M/S JUD Cements, Wahiajer, Narpuh Elaka, J.H. District.	Near Guest House	01.03.11	211.7	19.9	17.9	A
		Near CCR	01.03.11	239.2	6.4	21.5	A
		Crusher section	02.03.11	208.7	7.5	23.2	A
8.	Mawmluh Cherra Cements Ltd., Sohra.	Near Guest House	09.03.11	109.9	2.0	6.2	A
		Near Main Gate	09.03.11	221.6	2.0	8.5	A
9.	M/S H.M. Cements Ltd., EPIP, Byrnihat.	Near Guest House	15.03.11	263.5	69.6	25.9	A
		Near Kiln section	15.03.11	264.3	78.1	27.4	A
		Near Mandir	16.03.11	427.6	134.0	51.6	A

W - Within Permissible Limits : A - Above Permissible Limits

**Table : 5.3.2 Stack monitoring data.**

Sl. No.	Name of Sampling location	Date of Sampling	Type of Stack	Parameter tested	Observed value (mg/Nm <sup>3</sup> )	Permissible limits (mg/Nm <sup>3</sup> )	Remarks
1.	M/S Hills Cements Company Ltd., Lumshnong.	05.05.10	Cement mill	PM	218.7	50	W
2.	M/S C M C L., Lumshnong.	11.05.10	Cooler	PM	48.5	50	W
		11.05.10	Kiln and Raw Mill	PM	46.5	50	W
		11.05.10	Coal mill	PM	125.0	50	A
		11.05.10	Packing house	PM	26.0	50	W
3.	M/S Meghalaya Power Ltd., Lumshnong.	11.05.10	Thermal Power plant	PM	137.5	150	W
4.	M/S Adhunik Cements Ltd., Thangsjai.	25.08.10	Thermal Power plant	PM	5380.0	150	A
		25.08.10	Cement mill No. 2	PM	32.6	50	W
5.	M/S MCL, Lumshnong	09.02.11	Cement mill	PM	45.9	50	W
		09.02.11	Coal mill	PM	217.4	50	A
		09.02.11	Cooler	PM	35.5	50	W
		09.02.11	Packing house	PM	49.0	50	W
		09.02.11	Kiln and Raw Mill	PM	48.5	50	W
		10.02.11	Primary crusher	PM	45.5	50	W
6.	M/S Jaintia Cements, Sutnga.	15.02.11	Kiln	PM	59.0	150	W
		15.02.11	Cement mill	PM	32.9	150	W
		15.02.11	Raw mill	PM	47.9	150	W

7.	M/S JUD Cements Ltd., Lumshnong	01.03.11	Kiln and Raw Mill	PM	17.5	50	W
		01.03.11	Cement mill	PM	34.9	50	W
		02.03.11	Packing house	PM	34.4	50	W
		02.03.11	Cooler	PM	41.0	50	W
8.	MCCL, Sohra.	09.03.11	Cement mill	PM	137.0	150	W
		09.03.11	Coal mill	PM	109.2	150	W
9.	M/S H.M.Cements, EPIP, Byrnihat.	15.03.11	Kiln and Raw Mill	PM	34.5	50	W
		15.03.11	Cement mill	PM	43.6	50	W
		15.03.11	Coal mill	PM	48.0	50	W

W - Within Permissible Limits A - Above Permissible Limits

### (C) 5.4 AIR QUALITY MONITORING DURING DIWALI FESTIVAL

#### Ambient Air Quality Data/Results:

The findings of the monitoring conducted during Pre-Diwali and Diwali indicated that the concentrations of SO<sub>2</sub> and NO<sub>x</sub> at both the locations i.e. MUDA Complex, Police Bazar and Board's Premises, Lumpyngngad were found to be within the prescribed limits of National Ambient Air Quality Standards during Pre- Diwali, Diwali and Post- Diwali. However the concentration of PM10 was found to be above the permissible limits during Diwali day at MUDA Complex, Police Bazar. Monitoring results are shown in Table 5.4.1 and depicted in Fig. 5.4.0 and Fig. 5.4.1.

**Table 5.4.1 Ambient Air Quality during Diwali Festival 2010**

Parameter →	PM10 (µg/m <sup>3</sup> )		SO <sub>2</sub> (µg/m <sup>3</sup> )		NO <sub>x</sub> (µg/m <sup>3</sup> )	
	<i>Pre-Diwali</i>	<i>Diwali day</i>	<i>Pre-Diwali</i>	<i>Diwali day</i>	<i>Pre-Diwali</i>	<i>Diwali day</i>
Date → Location ↓	28.10.10	05.11.10	28.10.10	05.11.10	28.10.10	05.11.10
MUDA Complex, Police Bazar	103.3	181.3	2.0	12.3	17.3	22.8
Board's Premises, Lumpyngngad	54.6	67.3	2.0	2.0	4.5	5.4
National Ambient Air Quality Standart	<b>100</b>		<b>80</b>		<b>80</b>	



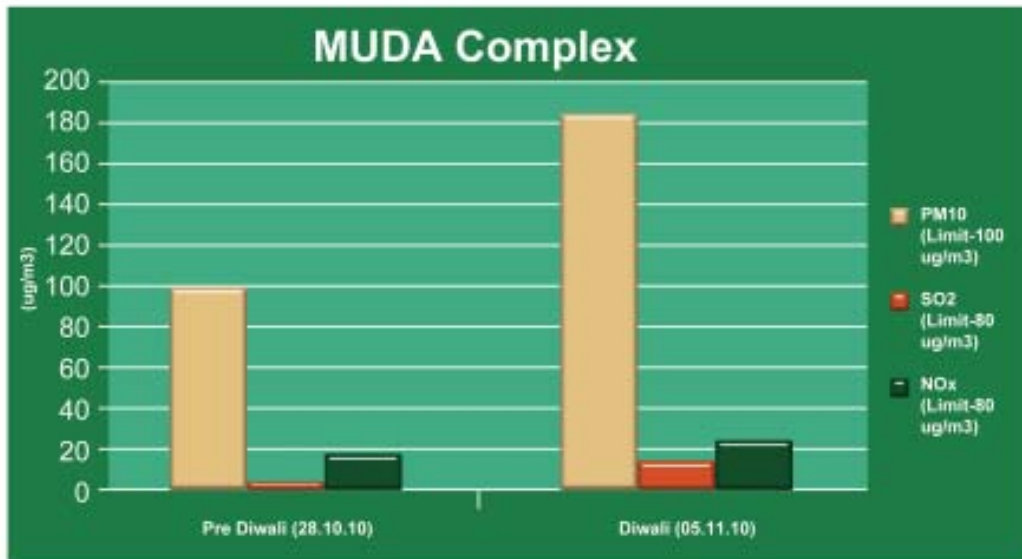


Fig. 5.4.0: Air quality at MUDA Complex , Police Bazar during Diwali festival.

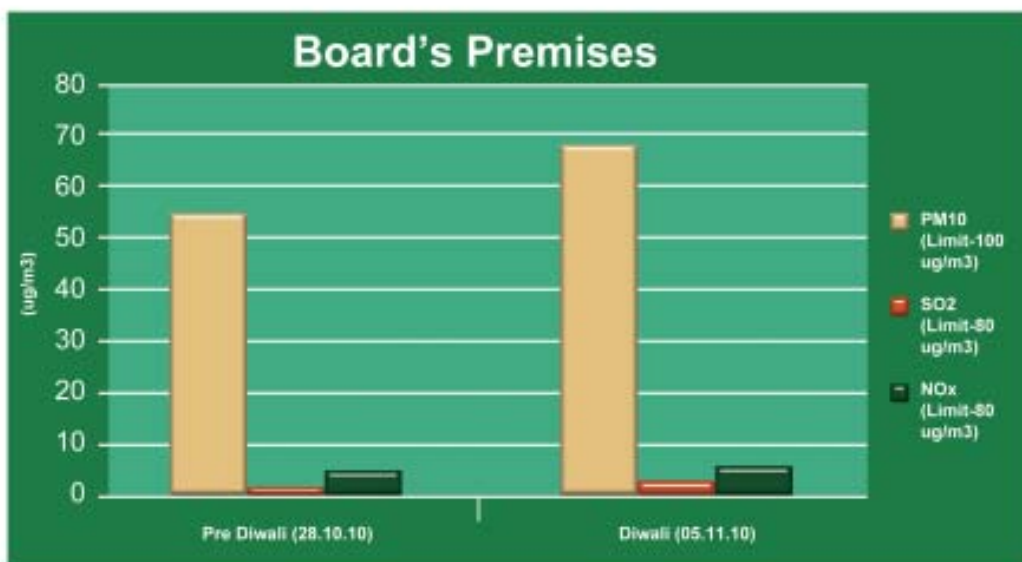


Fig. 5.4.1 Air quality at Board's Premises, Lumpyngngad during Diwali festival.

## 5.5 ASSESSMENT OF VEHICULAR POLLUTION

The Board has an Auto-emission-testing centre in its office premises at Lumpynggad, Shillong which has been functioning since January 1994. This Centre caters to the exhaust testing needs for the commercial and private light petrol and diesel driven 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 2010-2011, the number of vehicles tested at the Centre is as follows:-

PERIOD	TYPE OF VEHICLES	TOTAL NO. OF VEHICLES TESTED	PERCENTAGE VEHICLES COMPLYING TO EMISSION STANDARDS	PERCENTAGE VEHICLES NON-COMPLYING TO EMISSION STANDARDS
01.04.2010 <i>to</i> 31.03.2011	Petrol-Driven LMV	1154	99.8%	0.2%
	Diesel-Driven LMV	9	100%	0%

## 5.6 NOISE LEVEL MONITORING DIWALI FESTIVAL

The Meghalaya State Pollution Control Board monitored the ambient noise level during the Diwali festival of the current year on the 28<sup>th</sup> of October, 2010, (for pre-Diwali) and on the 5<sup>th</sup> of November, 2010 (on Diwali day). This was conducted strictly in compliance with the Government of India’s Notification and the interim directions of the Hon’ble Supreme Court.

### Study Area

Shillong, the capital of Meghalaya and the largest city in the state was chosen for the study. The area or locations selected are:

- (i) Lumpynggad, at the Board’s premises.
- (ii) Police Bazar, at the MUDA (Meghalaya Urban Development Authority) Complex

### Instrument used and methodology

The monitoring team was equipped with a Larson-Davis DSP 80 and a Lutron SL-4001 Sound Level Meters. The noise levels were measured in dB (A) i.e. the level of sound in decibels on scale – A, as per the human ear sensitivity requirements. The result was expressed in Leq denoting the A weighted energy mean of the noise level

averaged over the measurement period. The noise level was monitored for continuous 24 (twenty-four) hours duration i.e. from 00:00 hours (i.e. 12:00 midnight) to 24:00 hours (i.e. 12:00 midnight again) where Leq readings were recorded for every hourly interval. This was as per the Protocol specified by the CPCB, Delhi.

## Findings

**The findings of the monitoring results are presented in tables 5.6.1 & Table 5.6.2.**

Table 5.6.1 presents the day and night time noise level at Lumpynggad. As per the findings it can be observed that there is not much difference in the night time average equivalent sound level (Leq) before and on Diwali day. However there is a slight increase in the overall noise level during daytime when the monitored noise level of the two days are compared. Further, the noise level on Diwali day is observed to be at its peak in the time slot between 17:00 Hrs. (5:00 p.m.) to 21:00 Hrs. (09:00p.m.) which is observed to be about the usual time period when the bursting of crackers is most prominent even in other residential localities in Shillong. However, it is observed that the average equivalent sound level (Leq) for daytime during both the pre-Diwali and Diwali days is within the national limits while it is just slightly above during nighttime on Diwali day.

Table 5.6.2 presents the day and night time noise levels at Police Bazar before and on Diwali day. At the outset it may be pointed out that the average equivalent sound level (Leq) on 28<sup>th</sup> October (pre-Diwali) and 5<sup>th</sup> November (Diwali) 2010, are both within the Ambient Noise level standards. However, the overall ambient noise level during day and night time on Diwali day is on the higher side when compared to that before Diwali. Prominently, the increase in noise level on the 5<sup>th</sup> November 2010 (Diwali) is observed to be from the time slot between 16:00 Hrs. (04:00 P.M.) to 24:00 Hrs. (12:00 midnight) with the maximum recorded noise level of 80.1 [dB(A) Leq] to be between 22:00 Hrs. (10:00 p.m.) and 23:00 Hrs. (11:00p.m.).

Now, when compared with the 2009 Diwali data, while it is relatively same in Lumpynggad, the average equivalent noise level for day and night time in Police Bazar was higher during the previous year.

Therefore, from the above findings it is observed that bursting of crackers etc. contributes to the overall noise level increase in the environment. Though the increase in noise level during certain timings of the day (or night) may not seem to affect the overall average noise level (Leq) for day or night time, such notion may be deceptive. The reason for this is that during those time slots/hours where the noise level is high or very high, the same will definitely have a mental and physiological affect on residents who are 'compelled' or 'forced' 'listeners and hearers' of the emitted sound. Besides this, there is an increase in the suspended particulate matters and chemicals etc. due to the bursting and burning of crackers, sparklers, 'rockets' etc. The ban on the sale or use of high sounding firecrackers [generating noise level exceeding 125dB(AI) or 145 dB(C)pK] has however gone a long way in reducing the level of noise emitted during the festival.

**TABLE – 5.6.1 Ambient Noise Level At Lumpynggad Before And On Diwali Day 2010. (Category – Residential Area)**

Sl. No.	Time Duration	Ambient Noise standard dB(A) Leq	Noise Monitored	
			Before Diwali 28 <sup>th</sup> October 2010	On Diwali day 5 <sup>th</sup> November 2010
1.	00:00 Hrs. to 01:00 Hrs.	45	43.6	43.6
2.	01:00 Hrs. to 02:00 Hrs.	45	43.2	44.8
3.	02:00 Hrs. to 03:00 Hrs.	45	44.1	43.9
4.	03:00 Hrs. to 04:00 Hrs.	45	43.5	44.7
5.	04:00 Hrs. to 05:00 Hrs.	45	44.7	44.3
6.	05:00 Hrs. to 06:00 Hrs.	45	47.5	45.5
7.	06:00 Hrs. to 07:00 Hrs.	55	48.2	43.8
8.	07:00 Hrs. to 08:00 Hrs.	55	47.5	44.0
9.	08:00 Hrs. to 09:00 Hrs.	55	48.3	46.0
10.	09:00 Hrs. to 10:00 Hrs.	55	46.8	52.2
11.	10:00 Hrs. to 11:00 Hrs.	55	48.7	49.2
12.	11:00 Hrs. to 12:00 Hrs.	55	49.2	50.0
13.	12:00 Hrs. to 13:00 Hrs.	55	46.6	52.3
14.	13:00 Hrs. to 14:00 Hrs.	55	47.6	51.3
15.	14:00 Hrs. to 15:00 Hrs.	55	48.2	51.8
16.	15:00 Hrs. to 16:00 Hrs.	55	48.3	51.3
17.	16:00 Hrs. to 17:00 Hrs.	55	50.6	50.7
18.	17:00 Hrs. to 18:00 Hrs.	55	48.5	56.5
19.	18:00 Hrs. to 19:00 Hrs.	55	48.0	57.2
20.	19:00 Hrs. to 20:00 Hrs.	55	41.7	55.9

21.	20:00 Hrs. to 21:00 Hrs.	55	43.6	53.8
22.	21:00 Hrs. to 22:00 Hrs.	55	43.4	52.0
23.	22:00 Hrs. to 23:00 Hrs.	45	41.8	50.7
24.	23:00 Hrs. to 24:00 Hrs.	45	43.5	45.2
Average equivalent sound level (Leq) in dB(A)		Day time (06:00Hrs. to 22:00 Hrs.)	47.2	51.1
		Night time (00:00 Hrs. to 06:00 Hrs. and 22:00 Hrs. to 24:00 Hrs.)	43.9	45.3

- Note
1. Day time is reckoned between 6:00 a.m. and 10:00 p.m.
  2. Night time is reckoned between 10:00 p.m. and 6:00 a.m.
  3. Ambient Noise Standards as per Noise Pollution (Regulation & Control) Rules,2000.

**TABLE – 5.6.2 Ambient Noise Level At Police Bazar Before  
And On Diwali Day 2010. (Category – Commercial Area)**

Sl. No.	Time Duration	Ambient Noise standard dB(A) Leq	Noise Monitored	
			Before Diwali 28 <sup>th</sup> October 2009	On Diwali day 5 <sup>th</sup> November 2009
1.	00:00 Hrs. to 01:00 Hrs.	55	52.2	62.8
2.	01:00 Hrs. to 02:00 Hrs.	55	50.0	55.4
3.	02:00 Hrs. to 03:00 Hrs.	55	46.5	54.4
4.	03:00 Hrs. to 04:00 Hrs.	55	45.2	52.6
5.	04:00 Hrs. to 05:00 Hrs.	55	46.8	55.0
6.	05:00 Hrs. to 06:00 Hrs.	55	56.9	61.0

7.	06:00 Hrs. to 07:00 Hrs.	65	58.7	61.3
8.	07:00 Hrs. to 08:00 Hrs.	65	60.1	59.3
9.	08:00 Hrs. to 09:00 Hrs.	65	58.8	61.8
10.	09:00 Hrs. to 10:00 Hrs.	65	55.2	57.8
11.	10:00 Hrs. to 11:00 Hrs.	65	58.2	58.4
12.	11:00 Hrs. to 12:00 Hrs.	65	57.8	61.9
13.	12:00 Hrs. to 13:00 Hrs.	65	59.4	61.5
14.	13:00 Hrs. to 14:00 Hrs.	65	60.7	58.3
15.	14:00 Hrs. to 15:00 Hrs.	65	59.3	61.7
16.	15:00 Hrs. to 16:00 Hrs.	65	60.9	62.2
17.	16:00 Hrs. to 17:00 Hrs.	65	61.7	65.4
18.	17:00 Hrs. to 18:00 Hrs.	65	61.5	66.3
19.	18:00 Hrs. to 19:00 Hrs.	65	62.1	70.6
20.	19:00 Hrs. to 20:00 Hrs.	65	60.3	60.7
21.	20:00 Hrs. to 21:00 Hrs.	65	61.2	74.6
22.	21:00 Hrs. to 22:00 Hrs.	65	62.6	79.2
23.	22:00 Hrs. to 23:00 Hrs.	55	55.0	80.1
24.	23:00 Hrs. to 24:00 Hrs.	55	54.7	72.6
Average equivalent sound level (Leq) in dB(A)		Day time (06:00Hrs.to 22:00 Hrs.)	59.9	63.8
		Night time (00:00 Hrs to 06:00 Hrs. and 22:00 Hrs. to 24:00 Hrs.)	50.9	54.1

- Note:
1. Day time is reckoned between 6:00 a.m. and 10:00 p.m.
  2. Night time is reckoned between 10:00 p.m. and 6:00 a.m.
  3. Ambient Noise Standards as per Noise Pollution (Regulation & Control) Rules, 2000.

## 5.7 MONITORING OF WATER QUALITY

### (A) Water Quality Monitoring Network

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 as stated below :

**Table -5.7.1: Monitoring Stations under National Water Monitoring Programme**

Sl. No.	Name of	Location monitoring stations	Parameters analysed on regular basis	Parameters analysed (Once in a Year)
<b>Surface Water</b>				
1.	Umtrew river	Byrnihat	<b><u>i. Field Observation:</u></b>	
2	Kyrhukhla river	Khliehriat	i. Weather, Colour &	Turbidity, Alkalinity,
3	Umiam lake	Umiam	intensity, Odor, Visible	Total Hardness,
4	Ward's lake	Shillong	effluent discharge, human.	NH <sub>3</sub> -N, Kjeldahl-N,
5	Thadlaskein lake	Thadlaskein	<b><u>ii. Physico-chemical &amp;</u></b>	Calcium, Magnesium,
6	Myntdu river	Jowai	<b><u>bacteriological</u></b>	Potassium, Sodium,
7	Ganol river	Tura	<b><u>parameters:</u></b>	Sulphates, Phosphates,
8	Simsang river	Williamnagar	Dissolved Oxygen , pH,	COD, As, Zn, Cu,
			Conductivity, Biological	Cr, Cd, Pb, Fe, Ni,
			Oxygen Demand, Nitrate	Flouride
			Nitrogen, Nitrite Nitrogen,	
			Total Coliform and Fecal	
			Coliform	
			<b><u>iii. Biomonitoring:</u></b>	
			Saprobity Index,	
			Diversity Index	



<b>Ground Water</b>				
9	Police Bazar spring	Shillong		
10	Mawpdang spring	Shillong		
11	Wah U Dkhar	Sohra		
12	Umsahep spring	Shangpung		
13	Narbong well	Bymihat		



## 5.8 Water Quality of the monitored water bodies.

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

**Umiam Lake:** The level of the Dissolved Oxygen values is meeting the desired class throughout the year. The Biochemical Oxygen Demand value ranged from 7.5 to 10.0 mg/l which is found to be above the desired limit of above 3 mg/l. Similarly the total and faecal coliform indicates the presence of pathogens in water which are a major concern. The concentration of Dissolved Oxygen, Biochemical Oxygen Demand, Total and Faecal Coliform of the monitoring station is depicted in figures below.

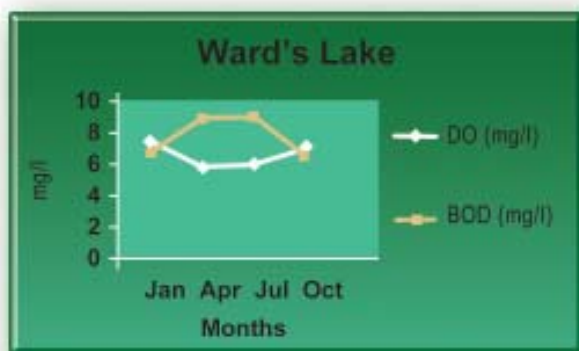


Fig 3.0: Concentration of Dissolved Oxygen & Bio-Chemical Oxygen Demand of Ward's Lake

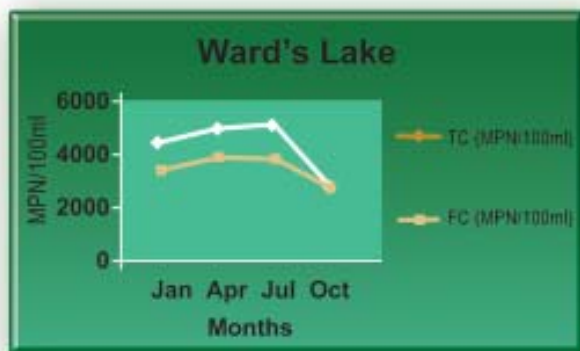


Fig 4.0: Bacterial Count (Total & Faecal Coliform) of Ward's Lake

**Umtrew River:** The sources of pollution of the water body at the monitored location are the discharge of untreated solid and liquid waste from the residential areas, open defecation, dumping of solid waste etc. The range of Dissolved Oxygen is from 6.2 to 8.5 mg/l. The Biochemical Oxygen Demand value is above 3 mg/l which is found to be above the desired limit, ranges from 6.0 to 8.5 mg/l. The concentration of Dissolved Oxygen, Biochemical Oxygen Demand, Total and Faecal Coliform of the monitoring station is depicted in figures below.



Fig 5.0: Concentration of Dissolved Oxygen & Bio-Chemical Oxygen Demand of Umtrew River



Fig 6.0: Bacterial Count (Total & Faecal Coliform) of Umtrew River

**Kyrhuhkhla:** The pH value was found to be as low as 2.7 indicating that this river is highly acidic in nature due to acid mine drainage and coal storage. The Biochemical Oxygen Demand value was found to be above the limit for the desired class and ranges from 5.0 to 7.8 mg/l. The concentration of Dissolved Oxygen, Biochemical Oxygen Demand, Total and Faecal Coliform of the monitoring station is depicted in figures below.



Fig 7.0: Concentration of Dissolved Oxygen & Bio-Chemical Oxygen Demand of Kyrhuhkhla River



Fig 8.0: Bacterial Count (Total & Faecal Coliform) of Kyrhuhkhla River

**Thadlaskein Lake:** The presence of organic pollutant viz., Biochemical Oxygen Demand, Total and Faecal Coliform were also detected in this monitoring station. The water quality of the lake is affected to some extent by surface run off from surrounding areas and agricultural activities. The concentration of Dissolved Oxygen, Biochemical Oxygen Demand, Total and Faecal Coliform of the monitoring station is depicted in figures below.



Fig 9.0: Concentration of Dissolved Oxygen & Bio-Chemical Oxygen Demand of Thadlaskein Lake

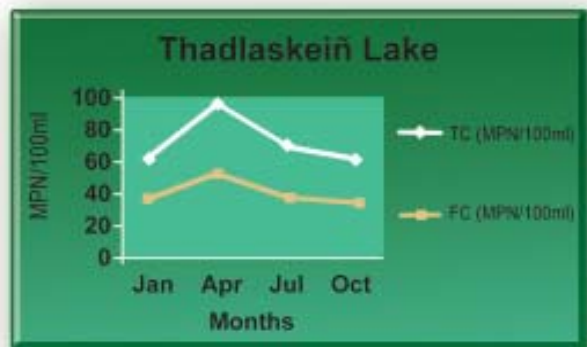


Fig 10.0: Bacterial Count (Total & Faecal Coliform) of Thadlaskein Lake

**Myntdu River:** The monitoring results indicate that the water was polluted with Total and Faecal Coliform. The main sources of pollution of this river are the solid and waste water discharge from residential areas, dumping of solid waste, spoil and garbage and agricultural activities. The concentration of Dissolved Oxygen, Biochemical Oxygen Demand, Total and Faecal Coliform of the monitoring station is depicted in figures below.

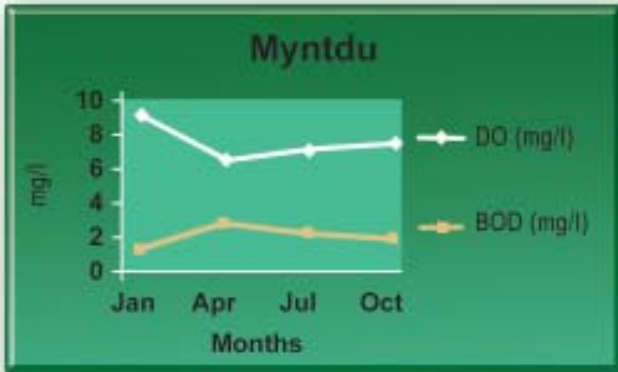


Fig 11.0: Concentration of Dissolved Oxygen & Bio-Chemical Oxygen Demand of Myntdu River



Fig 12.0: Bacterial Count (Total & Faecal Coliform) of Myntdu River

**Ganol River:** The river was found to be contaminated by Total and Faecal Coliform which may be contributed from untreated waste water discharged from residential areas, agricultural activities and open defecation, dumping of solid waste, spoils and garbage on the bank of the river. The concentration of Dissolved Oxygen, Biochemical Oxygen Demand, Total and Faecal Coliform of the monitoring station is depicted in figures below.



Fig 13.0: Concentration of Dissolved Oxygen & Bio-Chemical Oxygen Demand of Ganol River



Fig 14.0: Bacterial Count (Total & Faecal Coliform) of Ganol River

**Simsang River:** The Dissolved Oxygen value in this monitored location was found to be within the desired limit, and it range from 7.4 to 9.0 mg/l. The Biochemical Oxygen Demand value ranged from 1.0 to 2.5 mg/l which is found to be within the desired limit (3 mg/l) and the bacterial count range from 290 to 480 mpn/100ml for total coliform and 220 to 340 mpn/100ml for faecal coliform bacteria.



Fig 15.0: Concentration of Dissolved Oxygen & Bio-Chemical Oxygen Demand of Simsang River



Fig 16.0: Bacterial Count (Total & Faecal Coliform) of Simsang River

### 5.9: Physico-chemical & bacteriological parameters of Ground Water Quality:

The monitoring results revealed the presence of Total Coliform. Presence of Coliform in all monitored ground waterbody indicate the possibility of ground water contamination. The concentration of Dissolved Oxygen, Bio-chemical Oxygen Demand, and Total Coliform are presented in Table below:

Table 5.9.1 : Ground water quality monitoring during 2010

Stations	April 2010			October 2010		
	D.O mg/l	B.O.D mg/l	TC mpn/100ml	D.O mg/l	B.O.D mg/l	TC mpn/100ml
Police Bazar Spring, Shillong	5.2	1.2	48	4.5	2.0	78
Mawpdang Spring, Shillong	3.6	3.8	79	4.0	2.6	95
Wah-U-Dkhar Spring, Sohra	6.2	0.26	38	7.5	0.20	—
Umsahep Spring, Shangpung	8.5	0.75	26	8.8	0.50	22
Narbong Well, Byrnihat	3.2	2.5	50.0	3.6	1.3	42.0

**Table 5.9.2: Primary water quality criteria for various uses of fresh waters**

Sl. No.	Characteristics	A*	B*	C*	D*	E*
1.	Dissolved Oxygen (DO),mg/l,Min	6	5	4	4	-
2.	Biochemical Oxygen Demand <sup>2</sup> (BOD),mg/l,Max	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,Max	-	-	-	-	26.0
8.	Boron,mg/l,Max	-	-	-	-	2.0

Source: CPCB

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 ADSORBS /3/1978-79.

### 5.10 Analysis of water samples received from government and private agencies :

In addition to the regular programme, the Board is also engaged for analysis of water samples etc. received from government departments, private agencies and research scholars. A total of 332 samples were tested during the year.



## **6 PRESENT STATE OF THE ENVIRONMENT, ENVIRONMENTAL PROBLEMS AND COUNTER MEASURES.**

Meghalaya is a Hill State located in the North-Eastern region of the Country. It covers an area of about 22,429 Sq.kms. and its population as per 2001 census is 23, 06,069. Due to certain factors, the industrial development in the State has been slow and as such, the environmental pollution from industrial sources is not that significant. However, In the recent past, the growth of industries in the State has increased to a certain extent from small scale stone crushing unit to large scale cement industries which gave rise to the impact of the ecological imbalance in the State and the State has been experiencing rapid population growth and fast urbanization. It is estimated that about 80% of the pollution is caused by the indiscriminate discharge or disposal of domestic sewage, trade effluents, urban solid wastes, bio-medical wastes; by domestic fuel burning and by vehicular exhaust emissions. However, the exhaust emissions from vehicles are the major contributors to air pollution since road transport is the only mode of transport in the State. Meghalaya is rich in mineral resources and the main minerals are coal and limestone, which are found in almost the entire southern belt. Mining activities are mostly in private hands and as such coal and limestone are being exploited in an unscientific and unplanned manner without any measures for reclamation of mined areas. Such mining activities have been causing severe water pollution and environmental degradation in the mining areas.

The Board has identified 1313 polluting industrial units/establishments in the State and most of these are small and tiny units. Under large-scale industrial sector there are 12 cement plants, which also falls under the 17 categories of highly polluting industries. The others are medium and small-scale industries such as Power Plants lime calcination plants, ingot manufacturing and steel rolling mills, Ferro alloys manufacturing unit, stone crushing units, auto workshops, auto servicing, D.G. Sets etc., units. Most of the lime calcination units are coal – fired and kilns are of traditional types (pajwa), which do not have even hood and chimney for venting out the smoke. So far, no cost effective pollution control system could be suggested for such units due to the peculiar nature of the kiln structures, the type of coal used and the climatic condition at the places where such unit are dominantly located.

The Board is regulating the discharge of effluents and air emissions from industries through the issuance of Consents to Establish/Operate under Water & Air Acts. While issuing Consents, conditions are being imposed with regard to the effluent and the emission standards to which industries have to comply with. Conditions are also stipulated for setting up effluent treatment plants and/or installing of air pollution control systems whenever they are found necessary. The Board periodically collects and analyses effluent samples for verification of compliance to the consent conditions by industrial units. The industries are also instructed to ensure that pollution control systems, whenever necessary, are installed and commissioned within a stipulated period. In respect of new Projects, “Consents to Establish” are issued only after examining the suitability of the sites and scrutiny of the pollution control proposals. Besides, the Board is encouraging the industries to adopt cleaner production techniques based on recycle, re-use, and recover concepts.



During the year 2010-2011, the Board received 129 nos., applications for grant of Consent to Establish small/medium industrial units under the Water (Prevention & Control of Pollution) Act, 1974 and the Air (Prevention and Control of Pollution) Act, 1981.

The names of industries/firms which applied for Consent to Establish During the year 2010-2011 are as given at Annexure-4. Those industries that were granted Consent to Establish during the year are indicated at Annexure—4(A). The industries which were granted Consent to Operate and renewal of Consent to Operate is shown at Annexure-5 and Annexure-5(A) respectively.

## 7 ENVIRONMENTAL RESEARCH

During the year 2010-2011, the Board continued with the following study projects:-

### A. Studies and Evaluation of Environmental and Socio-Economic Impact of Coal Mining in Jaintia Hills

The study work is still continuing during the current year.

### B. Bio-Monitoring of Rivers in Meghalaya

The aim of the study is to obtain information about the state of ecological environment of water bodies, to assess the physic-chemical and bacteriological characteristics, to generate base line data on the aspects of bio-monitoring, and to plan control strategies for restoration of the pristine water quality of the water bodies.

Under the study, a two year sampling frequency was carried out during the pre-monsoon and post-monsoon in order to obtain information regarding the overall health of major rivers of the state. The study work is continuing during the current year.

### C. Ambient Air Quality Monitoring at Export Promotion Industrial Park (EPIP), Byrnihat

The objective of the study is to determine the status and trends of ambient air quality, to ascertain whether the Ambient Air Quality of the area meets the prescribed standards, and to plan strategies for effective control of air pollution.

Under the study, sampling frequency was carried out weekly for a period of 2 (two) years and the parameters analyzed include RSPM, SO<sub>2</sub>, NO<sub>x</sub> and meteorological data. The study work is continuing during the current year.

### D. Assessment of Noise in Major Cities/Towns in the State

Under this study the ambient noise level quality at certain selected locations within the cities/towns of Shillong, Tura, Jowai, Nongstoin and Nongpoh is monitored for assessing the level at those areas. The aim of the study is to:

- (i) Get a represented scenario of the noise levels.
- (ii) Plan strategies to effective control of noise.

The study work is still continuing under the current year.

### E. Assessment of Ground Water Quality and Ambient Air Quality around MSW Landfills

Under the study the objective is:

- a. To monitor the water quality of ground and surface water bodies located near the landfill site.
- b. To monitor the stack incinerator.



- c. To monitor the quality of compost produced from waste processing plant and leachate generated during decomposition of organic matter in the MSW.
- d. To monitor the compliance of the treatment facility available.

**F. Status of Domestic Waste, Waste Water Treatment and Disposal**

The objective of the study is to undertake inventory based on survey to collect station of domestic waste water generation, collection and treatment.

## 8 ENVIRONMENTAL AWARENESS & PUBLIC PARTICIPATION

### 8.1 World Environment Day Celebration

To mark the World Environment Day, a two day festival was organized by the Meghalaya State Pollution Control Board. On 4<sup>th</sup> June 2010, Inter-school Quiz competition was conducted for school students and on the 5<sup>th</sup> June 2010, a Free Vehicular Emission Testing camp was conducted for the public at large. The programmes were organized in a bid to generate awareness, encouraging people to voice their thoughts and do their utmost to improve the environment for the future generation.



*Participants of Inter School Quiz*



*Winners of the Inter School Quiz*

Altogether 8 (eight) schools from Shillong participated in the Inter-school Quiz competition.

During the vehicular emission testing, both diesel and petrol driven vehicles were tested for smoke and gas emissions free of cost. A total of 207 numbers of both petrol and diesel vehicles availed this opportunity. Of the 151 nos. of petrol vehicle tested, 97% tested were of the 4 wheeler vehicles and 3% were of the 2 wheelers. Out of the 151 nos. of petrol vehicle tested, 5% only were found to emit above the emission standards. Of the 56 nos. of diesel vehicles tested, 87% tested were of the 4 wheeler vehicles and 13% were 2 wheelers. Out of the 56 nos. of diesel vehicles tested 57% were found to emit above the emission standards. The percentage of petrol vehicles with emission complying above the standard limits is 5.3% for and 57.1% for diesel driven vehicles.



Free Vehicular Emission Testing on World Environment Day

## **8.2 Workshop on Solid Waste Management including Plastic Waste.**



The Meghalaya State Pollution Control Board, Shillong conducted a One-day Workshop on “Solid Waste Management including Plastics Waste” on the 18<sup>th</sup> March 2011 at the Shillong Club Residential Quarters, Shillong. The Workshop was sponsored by the Ministry of Environment and Forests, Government of India, New Delhi. The Workshop was conducted with an aim to educate the Officers and staff of all Municipal Boards, and the public at large, to make them aware of the lurking dangers of unmanaged solid waste; to expose them to different waste management techniques and to explain to them the need for complying with the Rules. There is also a need to educate the officials of the plastic manufacturing units on the duties they have to fulfil

as per the provisions of the Rules, which had only recently been re-notified. The target groups for the Workshop included officials from Municipal/Cantonment Boards, Town Committees, Urban Affairs Department, Meghalaya Urban Development Authority, Village headmen, NGOs and major industrial units.



The Workshop was well attended with participants representing all the targeted groups present.



### **8.3 Interactive Session on Pollution of Umkhrach River:**

The Board in collaboration with the People's Learning Centre, Shillong conducted the Interactive Session on the issues of pollution of Umkhrach River on the 4<sup>th</sup> November 2010 in the office of Meghalaya State Pollution Control Board, Shillong. The objective of the session is to sensitise the Local Durbars in the catchment area of Umkhrach on the need to prevent and control the causes of pollution of the said river. The meeting was participated by the Rangbah Shnong of the Local Durbars of Pynthhorbah, Lumiablot (Nongthymmai), Nongrah, Nongshilliang (Nongthymmai) etc.



*Shri M. Allya, Chairman, Meghalaya State Pollution Control Board, delivering a speech during the Interactive Session on Pollution of Umkhrach River*



*Section of the members of Local Authorities participating in the Interactive Session on Pollution of Umkhrach River*

## 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 **Bureau of Indian Standards**. The Board is maintaining the enforcement Schedule prescribed by the Central pollution Control Board and Ministry of Environment and Forests, Government of India in respect 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 PROSECUTION AND CONVICTIONS FOR ENVIRONMENTAL CONTROL

As embodied in the Water (Prevention and Control) of Pollution Act, 1974 and Air (Prevention and Control of Pollution) Act, 1981 and their subsequent amendments the Board took several measures to contain the water and air pollution in the State by issuing Show Cause Notices to industries which failed to comply with the norms laid down in the Act.

During the year 2010-2011 the Board issued 10(Ten) Show Cause Notices to defaulting industrial units in the state and details of which is shown in the table below.

**TABLE-11.1: SHOW CAUSE NOTICE ISSUED DURING 2010-2011**

<b>Sl. No.</b>	<b>Name of Industry/Unit</b>	<b>Location of Industry/Unit</b>	<b>Date of Show Cause Notice Issued</b>
1	Kshiar Enterprise	Chibra Umtyrnga, Ribhoi District	10.05.2010
2	Kshiar Enterprise	Bahenadi, Umtyrnga, Ribhoi District	13.05.2010
3	Niraj Agarwal Stone Crushing Unit	Maikhuli, Ribhoi District	07.05.2010
4	Lucky Stone Crusher	Pillangkata, Ribhoi District	17.05.2010
5	Edwel Dkhar Stone Crusher	Maikhuli, Ribhoi District	24.05.2010
6	Prashanti Associates	Umtyrnga, Barapathar, Ribhoi District	06.09.2010
7	Panchamukhi Processors (Megh) Pvt Ltd	Khanapara, Ribhoi District	06.09.2010
8	Nalari Ferro Alloys Pvt Ltd	EPIP, Byrnihat, Ribhoi District	06.09.2010
9	P. Sangma saw-cum-veneer Mill	Umiam Industrial Area, Ribhoi District	17.09.2010
10	Kamakshi Ispat Ltd	EPIP, Byrnihat, Ribhoi District	17.03.2011

## 11 CLOSURE OF INDUSTRIAL POLLUTING UNIT

In order to realise the objectives of the Water (Prevention and control of Pollution) 1974 and the Air (Prevention and Control of Pollution) Act, 1981 and their subsequent amendments the Board issued closure Notice to industrial units which failed to comply with the above Acts.

During the year 2010-2011 only 1(One) Closure Notice was issued by the Board to the defaulting unit which is shown in the table below:

**TABLE-11.2: CLOSURE NOTICE ISSUED DURING THE YEAR 2010-2011**

<b>Sl. No.</b>	<b>Name of Industry/Unit</b>	<b>Location of Industry/Unit</b>	<b>Date of Show Cause Notice Issued</b>
1	Rani Motors	Sunny Hills, Shillong, East Khasi Hills District	10.05.2010



## 12 OTHER ACTIVITIES OF THE BOARD

In addition to the main functions of the Board enumerated in the Water (Prevention and control of Pollution) 1974 and the Air (Prevention and Control of Pollution) Act, 1981 the Board also carries out the functions and activities under the Environmental (Protection) Act, 1986. The functions and activities carried out by the Board under Environmental (Protection) Act, 1986 are as follows:

### **12.1.1 Under the Hazardous Waste (Management Handling & Transboundary Movement) Rules, 2008, the Board.**

- 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.

#### **Application for Authorisation :**

The Board received no application for Authorisation under the Hazardous Waste (Management Handling & Transboundary Movement) Rules, 2008 during the year 2010-2011

**Authorisation Granted Under The Rules :** During the year 2010-2011 the Board Granted the Authorisation under the Rules to the following Unit:

1. ITD Cementation India Ltd granted on 15<sup>th</sup> December 2010.

#### **Authorisation Renewal :**

- 1) M/s Lafarge Umiam Mining Pvt. Ltd renewed on 22<sup>nd</sup> June 2010
- 2) M/s Meghalaya Cement Ltd renewed on 23<sup>rd</sup> December 2010.

### **12.1.2 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.

- Advice 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.

### **The Status of Bio-Medical Waste In the State for the year 2010-2011:-**

1. The total number of Health Care Facilities in the state is 662.
2. There are 5475 numbers of beds in the hospitals of the state.
3. The Total number of Bedded Hospitals is 158. Non-Bedded Hospitals (Dispensary/Sub-centers) is 417 numbers. While Veterinary Hospitals/Research Organisations/Clinics/Diagnostic Centres, Pathological Labs, etc., account for 87 numbers.
4. 22 numbers HCFs are utilizing Common Bio-Medical Waste Incinerator installed at Mawiong, Shillong by Shillong Municipal Board.
5. The total quantity of BMW generated per day is estimated at 727.30 Kgs.

### **12.1.3 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.

### **The Status of Municipal Solid Waste in the state for the year 2010 – 2011 are:-**

1. The total number of Municipal Authorities in the State is 7.
2. Number of towns in the state is 16 (As per Census 2001)
3. The total number of Application received from Urban Local Bodies (ULBs) is 4 and Authorisation granted is 2 and 2 has not yet granted.
4. Presently there is 1 (one) Vermicompost and 1 (one) mechanical compost plant operating in the State .
5. There are 5 (five) open dumping sites in the State, while 1(one) landfill site has been identified.
6. There are no Waste-to-Energy projects so far.

### **12.1.4 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.

During the year 2010-2011 there is no assembler, manufacturer, re-cycler or importer of lead acid batteries in the state. However, the Board has identified 33 dealers and 82 bulk consumers/auctioneers of lead acid batteries. These include State and Central Govt. offices/establishments, Military/Para-military establishments, State Transport Corporations, Health Care Facilities, University, Industries and Companies in the state.

### **12.1.5 Plastic Waste (Management & Handling) Rules, 2011**

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.

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

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

During the year 2010-2011 the total amount of Cess assessment is Rs 244024 (Rupees Two lakhs forty four thousand twenty four) only and Cess collection is Rs. 48853 (Rupees forty eight thousand eight hundred fifty three) The Cess collection is less to assessment in view of the fact that the local authorities' viz. SMB & GHADC and MeSEB 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.

### 12.3 Public Hearing

During the year 2010-2011 the Board has conducted the following Public Hearing in the state.

1.	NAME OF INDUSTRY	Shree Shakambari Ferro Alloy (P) Ltd
	PROJECT TYPE	Ferro Alloy and Captive Power Plant
	LOCATION	Rwiang, West Khasi Hills
	DATE OF HEARING	28 <sup>th</sup> April 2010
	LOCATION OF HEARING	Rwiang, West Khasi Hills
	STATUS	Environmental Clearance has been accorded by the Ministry of Environment & Forest

## 13 PUBLICATIONS

During the year 2010-2011 the Board issued the pamphlets on Salient feature of Water (Prevention & Control of Pollution) Act, 1974 to educate the people for the prevention and control of water pollution for maintaining or restoring of wholesomeness of water. The pamphlet highlighting the main points of the Act:

- Definitions
- Functions of State Board.
- Restriction on new outlets and new discharges
- Prohibition o use of stream or Well for disposal of polluting matter etc.
- Furnishing informations to State Board and other agencies in certain cases.
- Power to give Directions by the Board

During the same year, pamphlets on Salient features of Air (Prevention & Control of Pollution) Act, 1981 was issued for the benefit and knowledge of the general public about the promulgation of the Act for the purpose to provide for the prevention, control and abatement of air pollution including preservation of the quality of the air. The pamphlet highlighting the main points of the Act like:

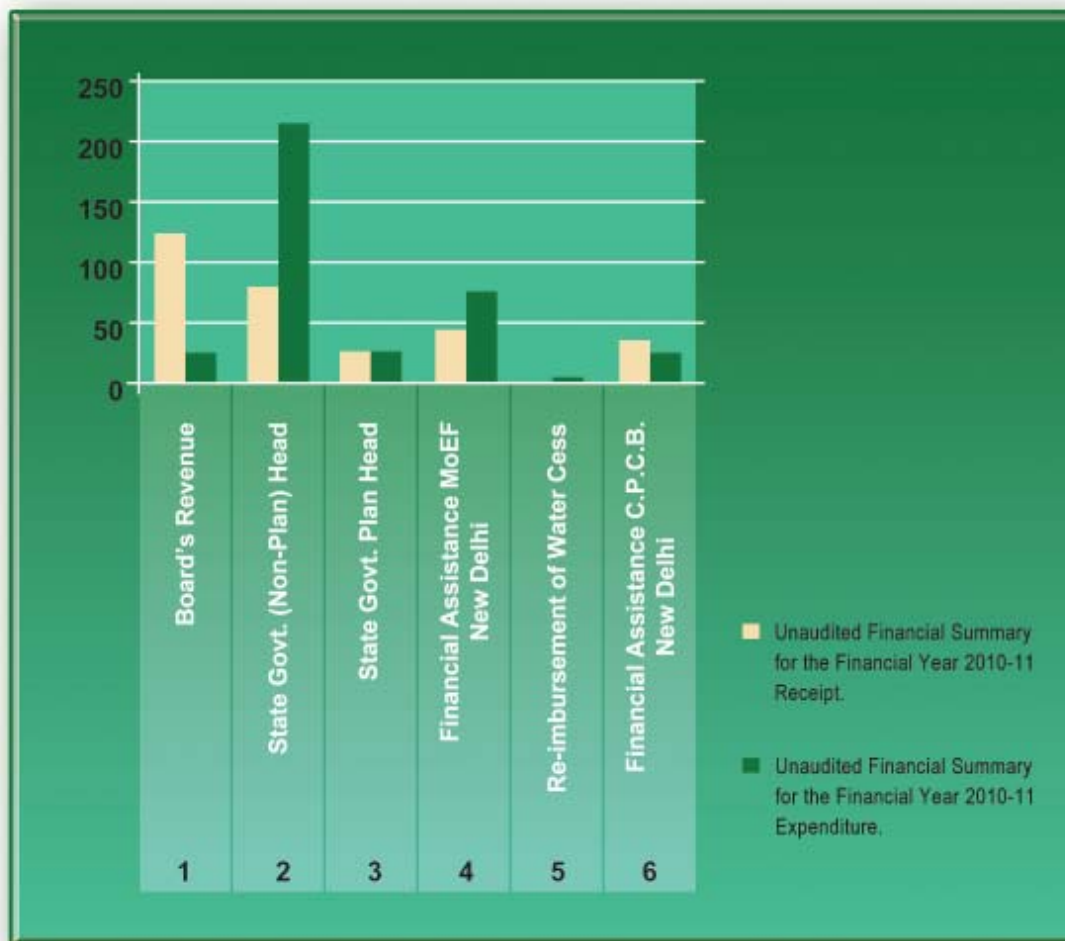
- Definitions
- Power to declare Air Pollution Control Areas.
- Functions of State Board.
- Restriction on use of any certain industrial plans.
- Prohibition
- Power of Entry and Inspection any industrial plan by the person empowered by the Board.
- Power to give Directions by the Boards.

## 14 FINANCIAL SUMMARY

The unaudited financial summary for the financial year 2010-11 reveals that during the said period, the State Board received a total amount of Rs. 319.18 Lakhs and total expenditure is Rs. 353.81. The State Board earned its total revenue from different industrial units in Meghalaya on account of Consent Fees, Sale of Forms, Authorization fees Biomedical/Hazardous Waste, Vehicle Emission Test, Water Sample Analysis etc. and also Cess Reimbursement, Non-Plan Grants from State Government is utilized for payment of Pay and Allowances to the Officers and Staff, Plan Grants is received from State Government for various development activities. Grants and financial assistance is received from Ministry of Environment and Forest and Central Pollution Control Board, New Delhi for different projects and schemes.

The financial summary of the Board during the year 2010-2011 is as shown in the table below:

Sl. No	Head of Accounts	Amount Rs. (in Lakhs)	
		Receipt	Expenditure
	<b>Board's Revenue</b>		
1.	i. (Boards Revenue) Consent Fees ,Sale of Forms, Authorization fees Biomedical/Hazardous Waste, Vehicle Emission Test, Water Sample Analysis etc.	107.18	24.61
	ii. Bank interest	15.86	-
	Sub Total (i to ii)	123.04	24.61
	<b>State Govt.(Non-Plan) Head</b>		
2	Grant from State Govt.(Non-Plan) for Pay & Allowances	81.13	209.82
3	<b>State Govt. Plan Head</b>		
	Grant from State Govt.(Plan)	25.00	24.08
4	<b>M.O.E.F./C.P.C.B., New Delhi</b>		
	i. Grant, Financial Assistance from Ministry of Environment & Forests , New Delhi	46.48	67.12
	ii. Re-imburement of Water Cess	0.79	1.39
	iii. Grant, Financial Assistance from Central Pollution Control Board , New Delhi	42.74	26.79
	Sub Total (i to iii)	90.01	95.30
	<b>Total</b>	<b>319.18</b>	<b>353.81</b>



**Fig 13.1 Receipts and Expenditure during the year 2010-2011**

During the financial year 2010-2011 the Total Receipt of the Board is Rs. 319.18 Lakhs and the total expenditure is Rs.353.81 lakhs. The receipts from Boards revenue is Rs. 107.18 lakhs and the expenditure is Rs. 24.61 lakhs. Receipt on Bank Interest is Rs. 15.86 lakhs. Receipt from the State government (Non-Plan) Head is Rs. 81.13 lakhs and expenditure is Rs. 209.82 lakhs . Receipt from State Government at Plan Head is Rs. 25.00 lakhs and the expenditure is Rs. 24.08 lakhs. Financial Assistance from Ministry of Environment & Forests,New Delhi is Rs. 46.48 lakhs and the expenditure is Rs. 67.12 lakhs. Receipt from the Central Pollution Control Board,New Delhi is Rs. 42.74 lakhs and the expenditure is Rs. 26.79 lakhs. The water cess re-imbursement from the the Ministry of Environment and Forests,New Delhi is Rs. 0.79 lakhs and the expenditure is Rs. 1.39 lakhs

**ANNEXURE - 1**

**STAFF POSITION OF THE MEGHALAYA STATE POLLUTION CONTROL BOARD  
UP TO 31<sup>st</sup> MARCH 2011**

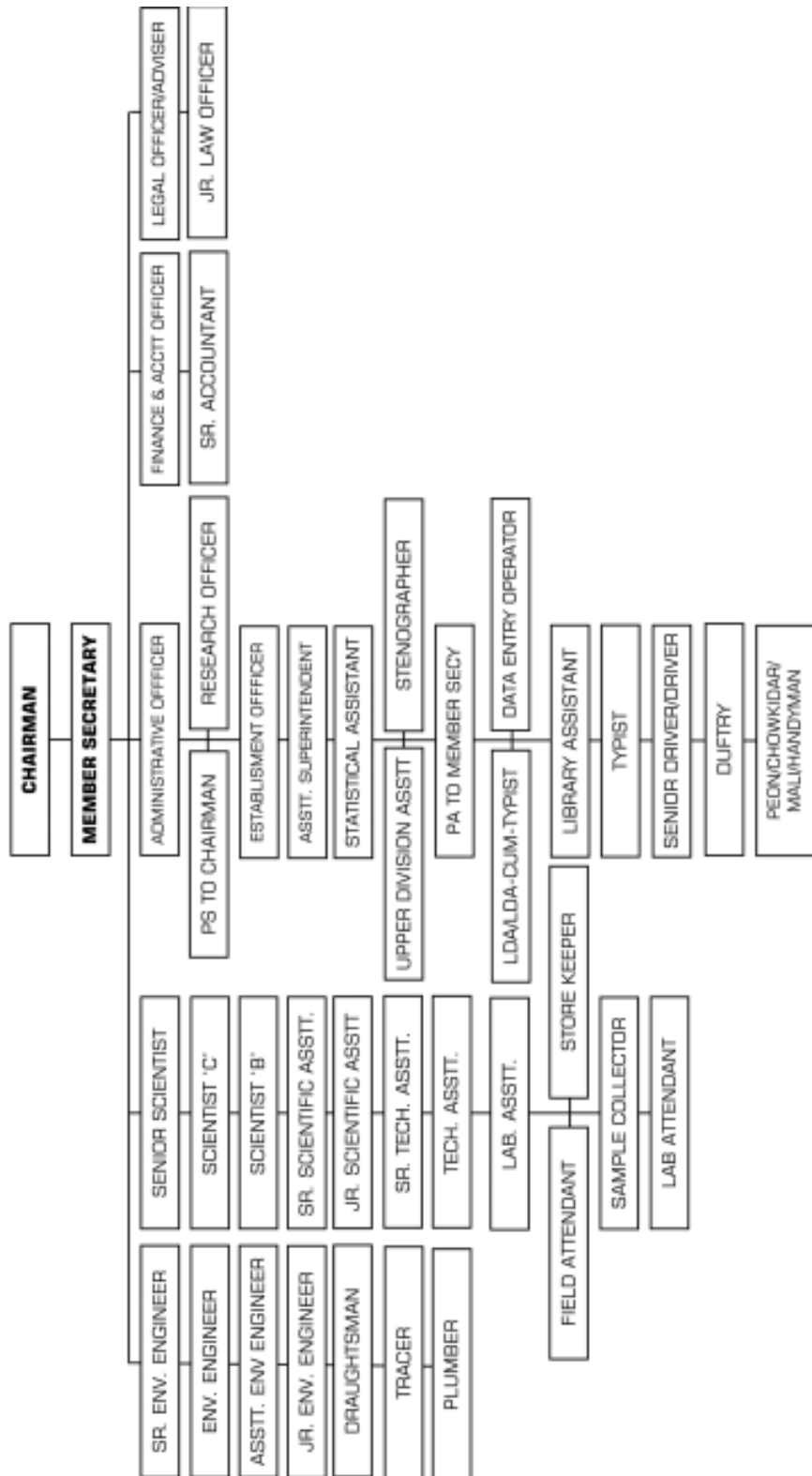
Sl No	Name Of The Post	Sanctioned Strength	Working Strength	Vacancy
	<b>Establishment</b>			
1.	Administrative Officer	1	-	1
2.	Private Secretary To Chairman	1	-	1
3.	Research Officer (Eco & Stat)	1	-	1
4.	Establishment Officer	1	1	-
5.	Asstt. Superintendent	1	1	-
6.	Statistical Asstt.	1	-	1
7.	Stenographer	1	1	-
8.	Upper Divisional Asstt.	4	4	-
9.	P.A To Member Secretary	1	-	1
10.	L.D.Asstt./LDA-Cum-Typist	12	4	8
11.	Data Entry Operator	2	2	-
12.	Typist	4	2	2
13.	Library Asstt.	1	-	1
14.	Senior Driver/ Driver	10	4	6
15.	Peon	19	13	6
16.	Mali	1	-	1
17.	Plumber	1	1	-
18.	Duftty	1	1	-
19.	Handy Man	1	-	1
20.	Chowkidar	3	2	1
	<b>Law</b>			
1.	Legal Officer/Adviser	1	-	1
2.	Junior Law Officer	1	1	-



SI No	Name Of The Post	Sanctioned Strength	Working Strength	Vacancy
	<b>Accounts</b>			
1.	Finance & Accounts Officer	1	-	1
2.	Senior Accountant	1	1	-
3.	Junior Accountant	2	2	-
	<b>Engineering</b>			
1.	Senior Environmental Engineer	1	1	-
2.	Environmental Engineer	2	2	-
3.	Asstt.Environmental Engineer	5	4	1
4.	Junior Environmental Engineer	1	1	-
5.	Senior Draftsman	1	-	1
6.	Tracer	1	1	-
7.	Plumber	1	1	-
	<b>Laboratory</b>			
1.	Senior Scientist	1	1	-
2.	Scientist 'C'	2	1	1
3.	Scientist 'B'	3	1	2
4.	Senior Scientific Asstt.	3	-	3
5.	Junior Scientific Asstt Gd I/II	7	4	3
6.	Senior Technical Asstt.	1	1	-
7.	Technical Asstt.	2	-	2
8.	Laboratory Asstt.	4	4	-
9.	Store Keeper	1	1	-
10.	Field Attendant	1	-	1
11.	Sample Collector	10	4	6
12.	Laboratory Attendant	4	2	2
	<b>Total</b>	<b>123</b>	<b>68</b>	<b>55</b>

Annexure-2

ORGANISATIONAL CHART



### Annexure -3

#### MEMBERS OF THE BOARD

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



NON-OFFICIAL MEMBERS

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

**Annexure - 4**

<b>LIST OF INDUSTRIES APPLIED FOR THE CONSENT TO ESTABLISH DURING 2010-2011</b>				
<b>Sl No</b>	<b>Name Of Industry/Unit</b>	<b>Location Of Industry</b>	<b>Date Of Application</b>	<b>Type Of Industry</b>
1.	Jester Swett Lime Industry	Mustoh, East Khasi Hills	01.04.2010	Lime Industry
2.	R.N. Crusher Mawkhap,	Ribhoi District	05.04.2010	Stone Crusher
3.	Chizam Brick Farm	Damalgre, Garobadha, West Garo Hills	09.04.2010	Bricks Industry
4.	K.Lakhmi Crusher	Rani, Jirang, Ribhoi District	13.04.2010	Stone Crusher
5.	I.Lapang Crusher	Rani, Jirang, Ribhoi District	13.04.2010	Stone Crusher
6.	Aiborman Thangkhiew Crusher Unit	Manikpur, Jirang, Ribhoi District	16.04.2010	Stone Crusher
7.	Sharly Dolloi Stone Crusher	Manikpur, Jirang, Ribhoi District	16.04.2010	Stone Crusher
8.	Mawlong Stone Crusher	Mawmaram, East Khasi Hills	30.04.2010	Stone Crusher
9.	B.K.Bani Stone Crusher	Mawroh Porsohsat, West Khasi Hills	30.04.2010	Stone Crusher
10.	Shilla Enterprise	Basisto, Barapathar Area, Ribhoi District	03.05.2010	Stone Crusher
11.	S. Tel Pvt. Ltd.	Lumsophoh, Nongthymmai, East Khasi Hills	30.04.2010	DG Set
12.	Idea Cellular Ltd.	East Khasi Hills:-Mawkhan Village, Upp. Shillong	15.03.2010	DG Set
13.	Hillarath Marak Stone Crusher	Gosingpata, P.O. Dajongpara, East Garo Hills	06.05.2010	Stone Crusher
14.	Josthina Ch. Momin Motor Servicing Centre,	Tura, West Garo Hills District	12.05.2010	Automobile Workshop
15.	S.D. Stone Crushing Unit,	Tura, West Garo Hills	26.05.2010	Stone Crusher
16.	J.K. Stone Crushing Unit	Phaniewlah-Rum, Lyngiong Lyngdohship, East Khasi Hillis	28.05.2010	Stone Crusher
17.	Momin Bakery	Hawakhana, Teting Aja, Tura,	28.05.2010	Bakery

Sl No	Name Of Industry/Unit	Location Of Industry	Date Of Application	Type Of Industry
18.	R.Ryngkhlem Crusher	Demthring, Jaintia Hills	31.05.2010	Stone Crusher
19.	Rangsa Stone Chips Crusher	Mangapara, West Garo Hills	21.07.2010	Stone Crusher
20.	PDB Calcimates	Umiam Industrial Area, Ribhoi District,	07.06.2010	Lime Industry
21.	Hills Cement Co. Limited	Mynkre, Jaintia Hills District	07.06.2010	Dg Set
22.	J. S. Crusher	Sohryngkham East Khasi Hills	15.06.2010	Stone Crusher
23.	J.J. Stone Crusher,	Sohryngkham, East Khasi Hills	28.06.2010	Stone Crusher
24.	Dev Ispat Pvt. Ltd.	Shallang, West Khasi Hills.	29.06.2010	Coal Mining
25.	Neoze's Stone Crusher	Nongpyndeng, Nongstoin West Khasi Hills	05.07.2010	Stone Crusher
26.	D. Tynsong Stone Crusher	Wahkhen Village, East Khasi Hills, Pynursla	01.07.2010	Stone Crusher
27.	Anelbamag,	Wahingdoh BI-I, Shillong.	14.07.2010	Bakery
28.	Dashisha Kharkongor, Stone Crusher,	Laitpynter, Japunglymbet, East Khasi Hills	19.07.2010	Stone Crusher
29.	B.S. Stone Crusher,	Mawdiangdiang, New Shillong.	19.07.2010	Stone Crusher
30.	Ora Enterprise,	Mawryngkhong, Shella, East Khasi Hills	21.07.2010	Lime Kiln
31.	Gregory Khongwir Stone Crusher Unit,	Thadring, Mawlyngngad, East Khasi Hills District	21.07.2010	Stone Crusher
32.	Kharkongor Stone Crusher	Lad Mawphlang, Sohra, East Khasi Hills District	26.07.2010	Stone Crusher
33.	Aizawl Stone Crusher	Tuber Kmai Shnong, Jaintia Hills District	26.07.2010	Stone Crusher
34.	D. Kshiar Crusher	Chibra, Umtyrnga Raid Marwet, Ri-Bhoi.	30.07.2010	Stone Crusher
35.	C. Warjri Stone Crusher	Kyiem Mawphlang, East Khasi Hills	30.07.2010	Stone Crusher

Sl No	Name Of Industry/Unit	Location Of Industry	Date Of Application	Type Of Industry
36.	13 Ngut Shipara Stone Crusher	Mawlangwir Village, Mawkyrwat, West Khasi Hills.	30.07.2010	Stone Crusher
37.	Stanlin Rynjah Stone Crusher	Umeit Village, Ri-Bhoi District	30.07.2010	Stone Crusher
38.	Ice Plant Cold Storage (FMA Outreach),	Saphai Village, Jaintia Hills.	02.08.2010	Cold Storage
39.	Piarlangki Iakai Stone Crusher,	Mookhep, Lad Rymbai, Jaintia Hills, Khliehriat	04.08.2010	Stone Crusher
40.	Shanlang Kharkongor Stone Crusher	Mawjrong, Kyrdemkhla, East Khasi Hills	04.08.2010	Stone Crusher
41.	Robert Samuel Lyngdoh Rngaid Stone Crusher,	Nonglang Village, Mawkyrwat, West Khasi Hills	04.08.2010	Stone Crusher
42.	Skylark Bricks Industry	Sakmal, West Garo Hills	12.08.2010	Bricks Industry
43.	Jirang Environment & Economic Development Union	New Jirang, Ri-Bhoi District	13.08.2010	Stone Crusher
44.	Jirang Environment & Economic Development Union	New Jirang, Ri-Bhoi District	13.08.2010	Stone Crusher
45.	R. Lapang Stone Crusher	Iewsir, Nongpoh, Ri-Bhoi District	12.08.2010	Stone Crusher
46.	Prime Crusher Industries	Manggapara, Jakaabari, Selsella, West Garo Hills District	13.08.2010	Stone Crusher
47.	Mukhim Stone Crusher,	Mawlyngad (Thadring), East Khasi Hills.	20.08.2010	Stone Crusher
48.	K. Lakhmi Crusher	Puransukrubaria, Jirang, Ri-Bhoi District.	23.08.2010	Stone Crusher
49.	W.P. Doloi Crusher	Am Pynsem Khura, Jirang, Ri-Bhoi District.	23.08.2010	Stone Crusher
50.	Shylla Stone Crusher	Lum Tyrtho, Nartiang, Modop, Jaintia Hills.	25.08.2010	Stone Crusher

Sl No	Name Of Industry/Unit	Location Of Industry	Date Of Application	Type Of Industry
51.	Pingki Dympep Stone Crusher	Kyiem, Mawphlang, East Khasi Hills District.	25.08.2010	Stone Crusher
52.	Hotel Lake View Inn	M.G Road, Shillong.	27.08.2010	Hotel
53.	Kyntonlang N. Syiem Stone Crusher	Laitumsaw, East Khasi Hills.	03.09.2010	Stone Crusher
54.	Kmel Nongbri Stone Crusher	Mawtepskum, Mawmaram, East Khasi Hills.	03.09.2010	Stone Crusher
55.	ITD Cementation India Ltd.	Norbong, Byrnihat, Ri-Bhoi District	03.09.2010	DG Set
56.	BBD Stone Crusher	Omduba Killing, Ri-Bhoi District	09.09.2010	Stone Crusher
57.	D. Warbah Stone Crusher	Mawtawar, Shillong, East Khasi Hills	08.09.2010	Stone Crusher
58.	I. Lapang Stone Crusher	Rani, Jirang, Ri-Bhoi District	07.09.2010	Stone Crusher
59.	Pnar Coke Pvt. Ltd.,	Wapung, Jaintia Hills District.	08.09.2010	Coke Plant
60.	Laitmynrieng Stone Cutting Unit	Laitmynrieng, East Khasi Hills	14.09.2010	Stone Crusher
61.	The Eee Cee Hotel	Khyndailad, Police Bazaar, Shillong, East Khasi Hills	20.09.2010	Hotel
62.	13 Star Stone Crusher	Lummawsaw, Kyrdemkhla, Mawjrong, East Khasi Hills	22.09.2010	Stone Crusher
63.	G.R. Infraprojects Ltd.,	Diengpasoh, East Khasi Hills District And Umroi Madan, Raid Mawbuh, Ri-Bhoi District	22.09.2010	Stone Crusher
64.	Unitech Wireless (E) Pvt. Ltd.	Parkside Building, Near Bsnl Office, Barik, Shillong.	30.09.2010	DG Set
65.	Unitech Wireless (E) Pvt. Ltd.	Parkside Building, Near Bsnl Office, Barik, Shillong	30.09.2010	DG Set
66.	Wahlang & Daughters	Umdishit, Mawsawa, West Khasi Hills	30.09.2010	Stone Crusher



Sl No	Name Of Industry/Unit	Location Of Industry	Date Of Application	Type Of Industry
67.	A. Nongrum Stone Crusher	Mawsing, Pommura, East Khasi Hills	01.10.2010	Stone Crusher
68.	B.L. Infracon (P) Ltd.	Upper Jorbil, Killing, Ri-Bhoi District.	01.10.2010	Stone Crusher
69.	ITD Cementation India Limited, (30 Cub-Batching Plant)	Norbong, Byrnihat, Ri-Bhoi District.	05.10.2010	Batching Plant
70.	Megha Stone Industries	Mawki Syiem, Cherrapunji, Sohra, East Khasi Hills	06.10.2010	Stone Crusher
71.	Megha Food Products,	9th Mile Baridua, Ri-Bhoi District	08.10.2010	Food Product
72.	D.K. Jahrin Stone Crusher,	Kensohsan, Ranikor, West Khasi Hills	14.10.2010	Stone Crusher
73.	Stoness Syiem Phlang Stone Crusher	Jirang, Ri-Bhoi District	18.10.2010	Stone Crusher
74.	Richmond L. Mawnai Stone Crusher,	Mawsawa, Pyndengumiong, West Khasi Hills District.	18.10.2010	Stone Crusher
75.	Loverson Kurbah Stone Crusher	Lyngkien Tangnew, (Rangshken Area), East Khasi Hills	25.10.2010	Stone Crusher
76.	Ramky Infrastructure Ltd	Umta Village, Umklai Village, Ribhoi District	07.10.2010	Construction Work 4 Lane From
77.	M. Ryntathiang Stone Crusher	Mawsawa, Pyndengumiong, Mairang, West Khasi Hills.	01.11.2010	Umiam To Jorabad Stone Crusher
78.	Umadutt Industries Limited (Expansion) Amjok,	Byrnihat, Ribhoi District	10.11.2010	HDPE Bag
79.	Hotel Polo Towers	Polo Ground, Shillong, East Khasi Hills	10.11.2010	Hotel
80.	Pyarmon Kharnary Stone Crusher	Lyngkyrdem, East Khasi Hills District	26.11.2010	Stone Crusher

Sl No	Name Of Industry/Unit	Location Of Industry	Date Of Application	Type Of Industry
81.	F.C. Marak Stone Crusher	Rukalgre,Williamnagar, East Garo Hills	07.12.2010	Stone Crusher
82.	Sairophy Kurbah Stone Crusher	Mawsawa,Mairang, West Khasi Hills	15.12.2010	Stone Crusher
83.	Ramky Infrastructure Ltd.	Byrnihat,Ribhoi District	04.10.2011	Batching Plant
84.	Meghalaya 40 Micron Plastic Recycling Incorporated,	Umiarong,Ribhoi District	13.01.2011	Plastic Recycling
85.	Marbaniang Car Servicing	Pomlum Wahrew,Pynursla, East Khasi Hills District	06.01.2011	Car Servicing
86.	India Telecom Infra Ltd.	Mawjrong, Sohryngkham, Sohrarim, Sohra (Dong Poomalang),East Khasi Hills	14.01.2011	DG Set
87.	India Telecom Infra Ltd	Mairang (Lum Myrlong), Mairang (Lyngdoh Masi And Lyngdoh Nongrim), West Khasi Hills	14.01.2011	DG Set
88.	India Telecom Infra Ltd.-	Ri-Bhoi District Umsning, 20th Mile(Byrnihat)	14.01.2011	DG Set
89.	India Telecom Infra Ltd.-	Rymbai,MCL (Diengshynrum), Jaintia Hills	14.01.2011	DG Set
90.	India Telecom Infra Ltd.	Bolongrey(Mendipathar), East Garo Hills	14.01.2011	DG Set
91.	Arzoo Cashewnt Processing Industry	Bagichapara, West Garo Hills	18.01.2011	DG Set
92.	Warjri Enterprise	Madan Mawser,Nonglwai, East Khasi Hills	03.02.2011	Stone Crusher
93.	Jai Coke Products	Byrnihat, Ribhoi District	01.02.2011	Coke Plant
94.	S.Thabah Bakery	Len-Mawtap,Sohiong, East Khasi Hills	09.02.2011	Bakery

Sl No	Name Of Industry/Unit	Location Of Industry	Date Of Application	Type Of Industry
95.	Meghalaya Pulvriser	Umden,Dongsokhwai, Ribhoi District	10.02.2011	Saw Dust And Coconut Shell Grinding Unit
96.	Gold Stone Cements Ltd	Musiang Lamare,Chiehruphi, Jaintia Hills District	20.04.2011	Cement Plant
97.	Little Chef Bakery	Bhagyakul,Laitumkhras,Shillong, East Khasi Hills District	17.02.2011	Bakery Unit
98.	Meghalaya Health Care Limited Services	Raid Marwet, Khanapara, Ribhoi District	16.02.2011	Health Service Sector
99.	Lumjingshai Stone Crushing Unit	Laitjem,East Khasi Hills District	09.02.2011	Stone Crusher
100.	Paiaskhem Nengnong Stone Crusher	Kydemkhla,East Khasi Hills	22.02.2011	Stone Crusher
101.	Kharbuli Stone Crusher	Mawpohlieh,Marang,Jaidoh, West Khasi Hills	23.02.2011	Stone Crusher
102.	Transcends Infrastructure (P) Ltd.	Rambachisakgri, West Garo Hills	24.02.2011	DG Set
103.	Transcends Infrastructure (P) Ltd.	Balsoi Ading,East Garo Hills	24.02.2011	DG Set
104.	ATC India Tower Corporation,	East Khasi Hills-Laitkor (Mawrie), Lummawsing,Laitkor-2	24.02.2011	DGSet
105.	ATC India Tower Corporation	Umsamlem, Ribhoi District	24.02.2011	DG Set
106.	ATC India Tower Corporation	Jaintia Hills-Memory Colony, Khliehtyrshi	24.02.2011	DG Set
107	Classic Restaurant	Khyndailad (Police Bazar) Shillong,East Khasi Hills	04.03.2011	Sweet Restaurant
108.	Gold Stone Cements Ltd	Musiang Lamare,Chiehruphi, Jaintia Hills District	25.03.2011	Aggregate Stone Crusher
109.	Henry Mukhim Stone Crusher	Umlaper,Ribhoi District,	11.03.2011	Stone Crusher
110.	Laxmi Hotel	Khyndai Lad, Shillong, East Khasi Hills District	10.03.2011	Restaurant

Sl No	Name Of Industry/Unit	Location Of Industry	Date Of Application	Type Of Industry
111.	Bharti Infratel Ltd.	Dongshilliang, Laitkyrhong, Kpermasi, Mawdang, Nongbsap Mission, Mawtawar(Mawlai), Mawpat, East Khasi Hills	09.03.2011	DG Set
112.	Bharti Infratel Ltd.,- East Khasi Hills	Madanrting, Mawshbuit (Nongpdeng), Jelly Shop, Mawshbuit(50x50), Umphymai, Rynjah(Lapalang)	09.03.2011	DG Set
113.	Bharti Infratel Ltd.,- West Garo Hills	Betasing, Kherapara, Askikakandi, Belbari, Taktuki, Chokagre, Chandabhui, Allagre, Rongritura, Marpara	09.03.2011	DG Set
114.	Bharti Infratel Ltd.,- West Garo Hills	Boldokagri, Ghoramara, Shidakandi (Bhaitbari), Somingre, Namabil, Rangsakona, Bangsidua, Banglakhota, Jeldopara	09.03.2011	DG Set
115.	Bharti Infratel Ltd.-	Norongkal, Line Ading, Darujak, Dubu Bazar, Gokulgre, Resubelpara Psmendi, Nengkhra, Bakrapara, Line Adeng, East Garo Hills	09.03.2011	DG Set
116.	Bharti Infratel Ltd	Nongsning, Byndihati, Mukhep, Marwan Thwaisalong, Rymbai, Rangat, Khliehriat-Jaintia Hills	09.03.2011	DG Set
117.	Bharti Infratel Ltd.-Jaintia Hills	Raliang, Thangskai(Lumshnong), Nongtalang, Dakhi West, Sohkympkor, Wahiajer	09.03.2011	DG Set

Sl No	Name Of Industry/Unit	Location Of Industry	Date Of Application	Type Of Industry
118.	Bharti Infratel Ltd.	Nongrmai, Rikhen, Mawshut, Nongbah Bynther, West Khasi Hills	09.03.2011	DG Set
119.	Bharti Infratel Ltd.	Umshaproh, Nongtraw, Umsawkhwan, Nongsder, Mawlong, Ribhoi District	09.03.2011	DGSet
120.	Bharti Infratel Ltd.-	Namchapara, RC Mission Compound(Baghmara), Konagittim, South Garo Hills:	09.03.2011	DGSet
121.	Nongkhlaw Crushing Stone,	Mawianglah, East Khasi Hills	14.03.2011	Stone Crusher
122.	Nalari Stone Crusher,	Mawthwan "A", Sohiong, East Khasi Hills	21.03.2011	Stone Crusher
123.	Crystal Clear Servicing Center	Mawlai Nongkwar, Shillong, East Khasi Hills	20.03.2011	Servicing Center
124.	K.M. Crusher	Kyrdem Khla East Khasi Hills District	29.03.2011	Stone Crusher
125.	India Telecom Infra Ltd	Lumbasuk (Lawjynriew), Nongthymmai, Shillong, East Khasi Hills District	03-02-2011	DG Set
126.	Transcend Infrastructure (P) Ltd	Balsni Ading (Williamnager), East Garo Hills District	24-02-2011	D.G. Set
127.	Bharti Infratel Ltd.	Boldagiri, Choramara, Sindakandi (Bhaitbari), Somingre, Rongsakona, Bangsidua, Jeldopara, Namabil, Bangakhota - West Garo Hills District	24-03-2011	D.G. Set

<b>Sl No</b>	<b>Name Of Industry/Unit</b>	<b>Location Of Industry</b>	<b>Date Of Application</b>	<b>Type Of Industry</b>
128.	Bharti Infratel Ltd.	Betasing, Kherapara, Askikakandi, Belbari, Taktuki, Chokagre, Chandabhui, Allagre, Rongri Tura, Marpara - West Garo Hills District	24-03-2011	D.G. Set
129.	Bharti Infratel Ltd.	Raliang, Thangskai, Nongtalang, Dkhiah, Sohkympkor, Wahiajer - Jaintia Hills District	09-03-2011	D.G. Set

**Annexure – 4 (A)**

**List Of Industries Which Consent To Establish Issued During 2010-2011**

<b>Name Of Industries</b>	<b><u>Date Of Consent to Establish Issued</u></b>	<b><u>Type Of Industry</u></b>	<b>Location Of The Industry</b>
Lum Mawshun Mining Corporation (Lafarge Umiam Pvt. Ltd.)	03.02.2011	Limestone Mining	Nongtraï, Shella Confederacy, East Khasi Hills District.
Romesh Lyngdoh Bakery	18..06.2001	Bakery Unit	Them Marwet,Khanapara, Ribhoi District
K. Lapang Crusher, Jirang-Sri Kmenlang Lapang	20.04.2010	Stone Crushing Unit	New Jirang,Ribhoi District
Marwet Bottling Industries, (Formerly Ri-Bhoi Bottling)	28.10.2010	LMFLUnit	Them Marwet,Khanapara, Ribhoi District
Sitaram Rabi Das Stone Crusher,	06.07.2010	Stone Crushing Unit	Zikabari, West Garo Hills District
Cosmos Cements Ltd,	16.06.2010	Cement Plant	Salang,Sutnga,Jaintia Hills
Phransis Swer Coal Mine,	16.06.2010	Coal Mining	Madan Mutha,Rymbai Dalloiship, Jaintia Hills District
Meghalaya Cements Ltd,	17.06.2010	Cement (Expansion From 900 Tpd To 2600 Tpd)	Thangskai, Khliehriat, Jaintia Hills
Promilla Khylllep Lime Products	20.04.2010	Lime Kiln	Shella, East Khasi Hills District.
Cosmos Cements Ltd. (Captive Power Plant	16.06.2010	Thermal Power	Salang, Elaka, Sutnga, Khliehriat, Jaintia Hills.
Sri Ram Wire Products (Meghalaya)	01.02.2011	Black Wire And Wire Nail	13th Mile.Tamulkuchi,Byrnihat, Ribhoi District
Wanwar Lime	30.07.2010	Lime Kiln	Rilangphai, Mawshamok, Tyrna, East Khasi Hills
Eee Cee Restaurant	01.11.2010	Hotel	Khyndai Lad,Shillong, East Khasi Hills

<b>Name Of Industries</b>	<b><u>Date Of Consent to Establish Issued</u></b>	<b><u>Type Of Industry</u></b>	<b>Location Of The Industry</b>
Bimla Devi Memorial Hospital	16.06.2010	Hospital	8th Mile, Baridua, Khanapara, Ri-Bhoi District
India Telecom Infra Limited	02.06.2010	DG Set	East Khasi Hills:-Lawjynriew,
J.R. Marak Workshop	16.06.2010	Automobile	Jamgoa Sorokpara East Garo Hills
Teiborlang Stone Crusher,	05.07.2010	Stone Crusher	Myria, Thlainkynroh Lyngiong, East Khasi Hills
B.K. Bani Stone Crusher	23.08.2010	Stone Crusher	Mawkrok, Porsohsat, West Khasi Hills District
S. Tel Pvt. Ltd.	08.07.2010	DG Set	Lumsohphoh, Nongthymmai, East Khasi Hills, Shillong.
Josthina Ch. Momin Motor Servicing Centre	16.06.2010	Motor Servicing Centre	Tura, A. Konggre West Garo Hills
Momin Bakery	16.06.2010	Bakery	Tura, Teting Aja, West Garo Hills District
R. Ryngkhlem Crusher,	22.06.2010	Stone Crusher	Demthring, Jaintia Hills, Jowai
B.S. Stone Crusher	01.11.2010	Stone Crusher	Mawkasiang, Mawdiangdiang,
Shan Kharkongor Stone Crusher	01.11.2010	Stone Crusher	Kyrdemkhla, East Khasi Hills
Mukhim Stone Crusher,	28.10.2010	Stone Crusher	Mawlyngngad, East Khasi Hills District
Pinky Dympep Stone Crusher	01.11.2010	Stone Crusher	Kyiem, Mawphlang, East Khasi Hills
Kyntonlang N. Syiem Stone Crusher,	26.11.2010	Stone Crusher	Laitumsaw, East Khasi Hills.
Kmel Nongbri Stone Crusher	11.11.2010	Stone Crusher	Mawtepskum, Mawmaram, East Khasi Hills District



<b>Name Of Industries</b>	<b><u>Date Of Consent to Establish Issued</u></b>	<b><u>Type Of Industry</u></b>	<b>Location Of The Industry</b>
ITD Cementation India Limited	31.01.2011	DG Set	Norbong, Byrnihat, Ribhoi District
Nangiaikiew Stone Crusher	23.12.2010	Stone Crusher	Mawsing, Pommura, East Khasi Hills
Unitech Wireless (E) Pvt. Ltd.	21.01.2011	DG Set	Parkside Building, Near Bsnl Office, Barik, Shillong.
Unitech Wireless (E) Pvt. Ltd.	21.01.2011	DG Set	Park Side Building, Near Bsnl Office, Shillong East Khasi Hills
Wahlang & Daughters	06.01.2011	Stone Crusher Unit	Umdishit, Mawsawa, West Khasi Hills
Megha Stone Industries	03.03.2011	Stone Crusher Unit	Maw-Ki- Syiem, Sohra, East Khasi Hills
D.K. Jahrin Stone Crusher,	23.12.2010	Stone Crusher	Kensohsan, Ranikor, West Khasi Hills
Richmond L. Mawnai Stone Crusher	07.02.2011	Stone Crusher	Mawsawa, Pyndengumiong, West Khasi Hills
Stone Crushing Unit	02.02.2011	Stone Crusher	Lyngkien, Tangnew, East Khasi Hills
Ramky Infrastructure Ltd.	16.12.2010	Hot Mix Plant And Batching Plant	Umta, Ribhoi District
M. Rynthiang Stone Crusher	17.01.2011	Stone Crusher	Mawsawa, Pyndengumiong, West Khasi Hills
Warjri Enterprise	03.03.2011	Stone Crusher	Madan Mawswer, East Khasi Hills District



<b>Name Of Industries</b>	<b><u>Date Of Consent to Establish Issued</u></b>	<b><u>Type Of Industry</u></b>	<b>Location Of The Industry</b>
S.Thabah Bakery	28.02.2011	Bakery	Lenmawtap,Sohiong, East Khasi Hills District
Sairophy Kurbah Stone Crusher	02.02.2011	Stone Crusher	Mawsawa Mairang, West Khasi Hills District
Meghalaya Pulviser	28.02.2011	Saw Dust And Coconut Shell Grinding Unit	Umden, Dongsohkhwai, Ribhoi District.

**Annexure-5**

**List Of Industries Where Consent To Operate Issued During 2010-2011**

Name Of Industries	Date Of C to Issued	Type Of Industry	Location Of The Industry
Abhi Coke Pvt. Ltd.	19.04.2010	Coke Making Unit	Datsimpein, Lad Rymbhai, JaintiaHills.
Mahabir Foods Ltd.	13.05.2010	Roller Flour Mill	13th Mile,Byrnihat, Ribhoi District
B.K.Saw-Cum-Veneer Mills Pvt. Ltd.	30.11.2010	Sawmill	Byrnihat,Ribhoi District
Milestone Concrete Pvt. Ltd.	01.02.2011	Stone Crushing Unit	Damas,East Garo Hills
Kim Hyundai Service Station	2.07.2010	Automobile Servicing Unit	Pynthorumkhrah,Shillong, East Khasi Hills
A.A.Nutritions-Noodles & Health Food	28.06.2010	Food Processing (Noodles)	Baridua,Ribhoi District.
H.B. Lime (Formerly C.S. Lime Kiln)	14.06.2010	Lime Kiln	Ichamati, East Khasi Hills
Marwet Bottling Industries, (Formerly Ri-Bhoi Bottling)	30.11.2010	IMFL Unit	Them Marwet,Khanapara, Ribhoi District
Sohphoh Stone Crusher	19.11.2010	Stone Crushing Unit	Puriang, East Khasi Hills District
Amm Cee Café	10.06.2010	Restaurant	Jailroad,Shillong, East Khasi Hills
Klistina Enterprise	23.12.2010	Stone Crushing Unit	Umkohseng,Kynshi, West Khasi Hills

**ANNEXURE – 5 (A)**

**LIST OF INDUSTRIES WHERE RENEWAL FOR CONSENT TO OPERATE ISSUED  
DURING 2010-2011**

<b>Name of Industries</b>	<b>Date Of Consent To Operate Renewal</b>	<b>Type of Industry</b>	<b>Location of the Industry</b>
Gee-See-Kaa Stone Crusher	14.02.2011	Stone Crushing Unit	Umiam Industrial Area, Ribhoi District
NEIGRIHMS	12.01.2011	DG Set	Mawdiangdiang,Shillong-12, East Khasi Hills
Oxford Packaging Pvt Ltd.	13.12.2010	Corrugated Box Making Unit	9th Mile,Baridua, Ribhoi District
Abhi Coke Pvt. Ltd.	19.04.2010	Coke Making Unit	Datsimpein, Lad Rymbhai, Jaintia Hills.
Premier Hatchery	11.05.2010	Hatchery Unit	Umiam Industrial Area, Ribhoi District
Premier Bakery	11.05.2010	Bakery Unit	Umiam Industrial Area, Ribhoi District
R.Kharpran Stone Crusher	04.03.2011	Stone Crushing Unit	Mawlyngngad, East Khasi Hills District
M.Kharpran Stone Crusher	11.01.2011	Stone Crushing Unit	Mawlyngngad, East Khasi Hills District
Shillong Ispat & Rolling	23.03.2011	Mild Steel Ingot	Byrnihat, Ribhoi District Mill Pvt. Ltd.
A.D.Aggregate Crushers Meghalaya Mineral Products	27.07.2010	Stone Crushing Unit Re-Rolling Mill	Barapathar,Ribhoi District EPIP, Byrnihat,Ribhoi District
Khasi Alloys Pvt. Ltd.	04.03.2011,	Ferro Silicon	EPIP, Byrnihat, Ribhoi District
J.Saw & Mill Pvt. Ltd.	29.06.2010	Sawmill	15th Mile,Byrnihat,Ribhoi District
Paras Singh Stone Crusher	08.06.2010	Stone Crushing Unit	Maikhuli,Ribhoi District

Name of Industries	Date Of Consent To Operate Renewal	Type of Industry	Location of the Industry
Meghalaya Cements Ltd. - Mooiong Mine(4.8 ha)	22.12.2010.	Limestone Mining	Chiehruphi,Thangskai, Jaintia Hills District
Meghalaya Cements Ltd. Synden Mine-Khliehjr i(4.9 ha)	30.09.2010	Limestone Mining	Thangskai,Lumshnong, Jaintia Hills
Mawmluh Cherra Cements Ltd Dishnet Wireless Ltd.	16.04.2010 09.03.2011	Limestone Mining DG Set	Sohra,East Khasi Hills Moosalynghat,Jowai, Jaintia Hills
Maithan Alloys Ltd. (Ferro Manganese)	03.04.2010	Ferro Silicon	EPIP,Byrnihat,Ribhoi District
AUMZ Industries	19.11.2010	Veneer-Saw-Timber	20th Mile,Paham Mawlein, Ribhoi District
Indomech Industries	19.03.2011	DG Set Assembling Unit	Them marwet,Khanapara, Ribhoi District
J.U.D.Cements Pvt. Ltd.	16.12.2011	Cement Plant	Wahiajer,Narpuh Elaka, Jaintia Hills District
A.A.Nutritions	28.06.2010	Food Processing (Noodles & Health Food)	Baridua,Ribhoi District.
P.C.H Sarkar Stone Crusher	31.01.2011	Stone Crushing Unit	Wahkrugre,West Garo Hills
S.K.Dewsaw Wood Products	01.12.2010	Saw-cum-veneer	Umiam Industrial Area, Ribhoi District
Megha Cashew Pvt. Ltd.	14.06.2010	Cashew nut processing	EPIP Byrnihat,Ribhoi District
Kamakshi Ispat Pvt. Ltd. (Ispat)	29.06.2010	Steel Ingots	EPIP Byrnihat,Ribhoi District
Hong Kong Restaurant	04.03.2011	Restaurant	Khyndai Lad,Shillong, East Khasi Hills

<b>Name of Industries</b>	<b>Date Of Consent To Operate Renewal</b>	<b>Type of Industry</b>	<b>Location of the Industry</b>
Wong Garden Restaurant	04.03.2011	Restaurant	G.S.Road, Police bazar Shillong Meghalaya.
Fruit Preservation Centre,	23.04.2010	Fruit processing unit	Fruit Garden,Shillong, East Khasi Hills
Mawmluh Cherra Cements Ltd.(MCCL)	16.09.2010	Cement Plant	Mawmluh,Sohra, East Khasi Hills
Komorrah Limestone Mining Co.Ltd.	17.06.2010	Limestone Mining	Komorah,Shella,East Khasi Hills

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Megha Polycon (P) Ltd.	25.08.2010	Water Storage Tank (HDPE/LLDPE)	Byrnihat,Ribhoi District
Cynthia E.Rynjah Bakery	19.03.2011	Bakery	Laban,Shillong-06, East Khasi Hills
H.M.Cements Ltd.	22.04.2010	Cement Plant	Upper Balian,Byrnihat, Ribhoi District
Gregory Kharsati Lime Kiln	19.04.2010	Lime Kiln	Umstew,Laitryngew, East Khasi Hills
J.G.Spices Ltd.	23.04.2010	Ginger Processing Unit	EPIP,Byrnihat, Ribhoi District
Anirudha Steel (P) Ltd.	28.06.2010	Mild Steel Ingots	EPIP,Byrnihat,Ribhoi District
Shyam Century Ferrous Ltd.	09.09.2010	Ferro Silicon & Silicon Manganese EPIP,	Byrnihat (Area - 8), Ri-Bhoi District
Riangdo Veneers (P) Ltd.	25.06.2010	Veneer Drying Unit and core veneer mfg Unit	Umiam Industrial Area, Ribhoi District
Harmel A.Sangma Stone Crusher Machine	31.05.2010	Stone Crushing Unit	Selsela,West Garo Hills
Nodrowel Bakery & Confectioners	19.04.2010	Bakery & Confectionary	Dhankheti,Shillong, East Khasi Hills
Meghalaya Minerals & Mines (P) Ltd.	14.04.2010	Limestone Mining	Lumshnong,Jaintia Hills
Ali Asgar Stone Crusher Machine, Good Luck Coal Exports - (II)	13.04.2010	Stone Crushing Unit	Rochupara,West Garo Hills

<b>Name of Industries</b>	<b>Date Of Consent To Operate Renewal</b>	<b>Type of Industry</b>	<b>Location of the Industry</b>
Godrej Saralee Ltd.	03.02.2011	Mosquito Repellent Coil	Byrnihat,Ribhoi District
Lafarge Umiam Pvt. Ltd. Shale & Siltstone(4.9 Ha)	09.09.2010	Shale and Siltstone Mining	Shella,East Khasi Hills
Lafarge Umiam Pvt. Ltd	21.02.2011	DG Set	Nongtraï,Shella,East Khasi Hills
Syiem Auto Workshop	19.04.2010	Automobile Workshop	Madanrting,Shillong, East Khasi Hills
Cements Manufacturing Co. Ltd.	09.06.2010	Cement Plant	Lumshnong,Jaintia Hills District
Surya Alloys Industries (P) Ltd.	25.05.2010	MS Ingot,Railway Track materials Tamulkuchi,	13 mile,Ribhoi District
North Eastern Regional Agricultural Marketing Corpn. Ltd(NERAMAC)	22.12.2010	Ginger EPIP, Processing Unit	Byrnihat,Ribhoi District
Pawan Casting (Meghalaya) (P) Ltd	25.05.2010	Re-rolling Mill	Harlibagan,Ribhoi District
Broming Con-aid	14.12.2010	Water proofing Compound and Cement Adhesive Unit	Narbong,Byrnihat,Ribhoi District
Adhunik Cement Ltd.	25.11.2010	Limestone Mining 4.9 ha	Mootang village,Jaintia Hills District





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<b>Name of Industries</b>	<b>Date Of Consent To Operate Renewal</b>	<b>Type of Industry</b>	<b>Location of the Industry</b>
Subhujan Restaurant	28.02.2011	Restaurant	Quinton Road, Khyndai Lad, Shillong, East Khasi Hills
Adhunik Cements Ltd.	23.03.2011	DG Set	Lumshnong, Jaintia Hills

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*“Nature is inexhaustibly sustainable if we care for it.  
It is our universal responsibility  
to pass a healthy earth onto future generations”*

*- Sylvia Dolson*



*“Earth provides enough to satisfy every man’s needs  
but not every man’s greeds”*

*- Mahatma Gandhi*