

# ANNUAL REPORT

2008 - 2009

MEGHALAYA STATE POLLUTION CONTROL BOARD



mspcb SHILLONG

# ANNUAL REPORT



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**Meghalaya State Pollution Control Board  
Shillong**

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# 1 INTRODUCTION

The State Board for Prevention and Control of Water Pollution, Meghalaya was constituted by the Government of Meghalaya on the 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 59(fifty nine) Staff as on 31-03-2009 against a sanctioned strength of 103(one hundred three) The details of staff position are given in Annexure-I. 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 reconstituted 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 (seventeen) members nominated by the State Government as per provisions laid down in Sub-Section (2) of Section 4 of the Water (Prevention and Control of Pollution) Act 1974. Besides the Chairman and the Member Secretary, there are 5(five) official members representing various State Government Departments, 5(five) members representing Local Authorities, 2(two) Members representing the Co-operatives and Corporations owned, managed or controlled by the State Government and 3(three) Non-official Members. The list of the Members of the Board is appended at Annexure-3.

During the financial year 2008-2009 Shri A. Biswa succeeded as the Chairman and Shri. D. Hooroo continued as the Member Secretary of the Board.

## 3 MEETINGS OF THE BOARD WITH MAJOR DECISIONS

During the year 2008-2009, the Board conducted the following Meetings:

| SL No. | MEETING NO.                    | DATE       | VENUE                                 | NO. OF MEMBERS ATENDING THE METTING |
|--------|--------------------------------|------------|---------------------------------------|-------------------------------------|
| 1.     | 49 <sup>th</sup> Board Meeting | 27/05/2008 | Office Chamber of the Chairman, MSPCB | 16                                  |
| 2.     | 50 <sup>th</sup> Board Meeting | 08/12/2008 | Office Chamber of the Chairman, MSPCB | 18                                  |

### 3.1 The 49<sup>th</sup> BOARD MEETING

The 49<sup>th</sup> Meeting of the Meghalaya State Pollution Control Board was held on the 27<sup>th</sup> May 2008 and the major decisions taken during the meeting were as follows:

#### 3.1.0 Control of Pollution from Traditional Lime Kilns:

The meeting took the following decisions on the subject matter:-

1. The Syiemship should be taken into confidence to take pollution aspects into consideration while allotting land to proposed lime kilns.
2. A Workshop on clean technology for lime kilns should be conducted inviting resource persons from concerned States, NEHU & Guwahati IIT.
3. R & D study should be done by the Board in consultation with concerned agencies.
4. An awareness programme should be conducted in the area by the Board involving concerned Departments and local Durbars etc.
5. A Health camp should be conducted by the Board in collaboration with the Health Department.

#### 3.1.1 : Inventorisation of Hazardous Wastes in Meghalaya:

The meeting decided that following the Supreme Court Order to have a Common Hazardous Waste, Storage, Treatment and Disposal Facility (TSDF), the Industries Deptt. should take appropriate action for identification and notification of site for the purpose of establishment of a secured landfill in accordance to the provisions of the Hazardous Waste (Management & Handling) Rules (Amendment), 2003. It was also decided that the Inventory Report of Hazardous Waste should be updated and submit the same to CPCB.

### **3.1.2 : Pollution in Byrnihat area:**

In this regard the meeting took the following decisions:-

1. The Industries Deptt., may initiate action to have a comprehensive EIA of Byrnihat area.
2. The industries should be made aware of availing incentives for providing pollution control devices.

### **3.1.3 : Vehicular pollution in Shillong :**

The meeting decided that the matter may be pursued with the Transport Deptt., quoting the provision of the Motor Vehicle Act that regular monitoring of vehicular emission should be done by them.

### **3.2.0. The 50<sup>th</sup> BOARD MEETING**

The 50<sup>th</sup> Meeting of the Meghalaya State Pollution Control Board was held on the 8<sup>th</sup> December 2008 and the major decisions taken during the meeting were as follows:

#### **3.2.1 : Inventorisation of Hazardous Wastes in Meghalaya**

*In addition to the decisions taken during the last meeting, the Board further decided as follows:-*

1. Since the Govt. of India has notified a new Hazardous Waste (Management, Handling & Transboundary Movement) Rules 2008 on September 2008, the inventory of Hazardous Waste has to be revised in accordance to the Schedules of this Rule.
2. A copy of the Hazardous Waste Rules 2008 should be made available to MIDC for preparation of the Detailed Project Report on Common Treatment Storage and Disposal Facility.

#### **3.2.2 : Annual Report of the Board**

*During the proceeding of the meeting the Board approved the Annual Reports for the year 2004-2005 & 2005-2006.*

## 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.

**TABLE 4.0**  
**MEMBERS OF THE CONSENT COMMITTEE**

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

**TABLE 4.1**  
**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 or 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.                      | : Convener |

**TABLE 4.2**  
**MEMBERS OF THE SELECTION COMMITTEE [FOR GRADE – ‘A’ POSTS]**

|    |  |                   |
|----|--|-------------------|
| 1. | Commissioner & Secretary, Govt. of Meghalaya, P.H.E.Deptt., Shillong                               | : Chairman        |
| 2. | Chairman Meghalaya State Pollution Control Board, Shillong   | : Member          |
| 3. | Under Secretary, Govt. of Meghalaya, P.H.E. Deptt. 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 |

**TABLE 4.3**  
**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 |

**TABLE 4.4**  
**MEMBERS OF THE ASSESSMENT-CUM- PROMOTION COMMITTEE**  
**[FOR GRADE – ‘A’ POSTS]**

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

**TABLE 4.5**  
**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

### 5.1 MONITORING OF AIR QUALITY

#### (A) National Ambient Air Quality Monitoring

The Meghalaya State Pollution Control Board is monitoring the Ambient Air Quality at 3 (three) stations in the state under National Air Monitoring Programme (NAMP) sponsored by CPCB. The frequency of monitoring is twice a week. Suspended Particulate Matter (SPM), Respirable Suspended Particulate Matter (RSPM), Sulfur Dioxide ( $SO_2$ ), Oxides of Nitrogen ( $NO_x$ ) 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 5.1.0 : Ambient Air Quality monitoring data at Board's Office Premises, Lumpyngngad, Shillong (Station – I)**

| MONTH & YEAR<br>2008 - 2009 | PARAMETERS TESTED<br>(MONTHLY AVERAGES) |                         |                           |                           | Permissible Limits<br>(Annual avg.)  |                                     |
|-----------------------------|---|-------------------------|---------------------------|---------------------------|--|-------------------------------------|
|                             | SPM<br>( $\mu g/m^3$ )                  | RSPM<br>( $\mu g/m^3$ ) | $SO_2$<br>( $\mu g/m^3$ ) | $NO_x$<br>( $\mu g/m^3$ ) | Pollutants   | Concentrations<br>( $\mu g/m^3$ )   |
| APRIL '08                   | 60.0                                    | 57.3                    | 2.0                       | 4.5                       |  | Residential, Rural, and Other areas |
| MAY '08                     | 65.7                                    | 57.6                    | 2.0                       | 4.5                       | SPM  | 140                                 |
| JUNE '08                    | 57.0                                    | 52.2                    | 2.0                       | 4.5                       | RSPM   | 60                                  |
| JULY '08                    | 60.0                                    | 54.3                    | 2.0                       | 4.5                       | $SO_2$   | 60                                  |
| AUGUST '08                  | 54.3                                    | 50.6                    | 2.0                       | 4.5                       | $NO_x$   | 60                                  |
| SEPTEMBER '08               | 55.0                                    | 51.5                    | 2.0                       | 4.7                       | Permissible limits of Ambient Air Quality Standards (National) for Residential, Rural, and Other areas as per EPA Notification GSR 176(E), April 02, 1996. |                                     |
| OCTOBER '08                 | 51.5                                    | 47.2                    | 2.0                       | 5.1                       |  |                                     |
| NOVEMBER '08                | 66.1                                    | 61.8                    | 2.0                       | 4.9                       |  |                                     |
| DECEMBER '08                | 90.5                                    | 79.9                    | 2.0                       | 4.7                       |  |                                     |
| JANUARY '09                 | 71.1                                    | 61.9                    | 2.0                       | 5.0                       |  |                                     |
| FEBRUARY '09                | 67.7                                    | 61.2                    | 2.0                       | 5.0                       |  |                                     |
| MARCH '09                   | 64.7                                    | 56.4                    | 2.0                       | 4.5                       |  |                                     |
| Annual Avg.                 | 63.6                                    | 57.6                    | 2.0                       | 4.7                       |  |                                     |

**Table 5.1.1 : Ambient Air Quality monitoring data at MUDA complex, Police Bazar, Shillong (Station – II)**

| MONTH & YEAR<br>2008 - 2009 | PARAMETERS TESTED<br>(MONTHLY AVERAGES) |                                      |   |   | Permissible Limits<br>(Annual avg.)  |  |
|-----------------------------|---|--------------------------------------|---|---|--|--|
|                             | SPM<br>( $\mu\text{g}/\text{m}^3$ )     | RSPM<br>( $\mu\text{g}/\text{m}^3$ ) | SO <sub>2</sub><br>( $\mu\text{g}/\text{m}^3$ ) | NO <sub>x</sub><br>( $\mu\text{g}/\text{m}^3$ ) | Pollutants   | Concentrations<br>( $\mu\text{g}/\text{m}^3$ ) |
| APRIL'08                    | 103.9                                   | 78.8                                 | 2.0   | 25.0  |  | Residential, Rural, and Other areas            |
| MAY'08                      | 121.6                                   | 92.9                                 | 2.0   | 15.6  | SPM  | 140  |
| JUNE'08                     | 81.4                                    | 67.5                                 | 2.0   | 9.0   | RSPM   | 60   |
| JULY'08                     | 106.8                                   | 89.5                                 | 2.0   | 12.8  | SO <sub>2</sub>  | 60   |
| AUGUST'08                   | 90.0                                    | 74.5                                 | 2.0   | 12.6  | NO <sub>x</sub>  | 60   |
| SEPTEMBER'08                | 112.8                                   | 94.1                                 | 2.0   | 14.9  | Permissible limits of Ambient Air Quality Standards (National) for Residential, Rural, and Other areas as per EPA Notification GSR 176(E), April 02, 1996. |  |
| OCTOBER'08                  | 113.0                                   | 94.3                                 | 2.0   | 23.3  |  |  |
| NOVEMBER'08                 | 119.6                                   | 98.3                                 | 2.0   | 17.2  |  |  |
| DECEMBER'08                 | 134.6                                   | 104.4                                | 2.0   | 19.3  |  |  |
| JANUARY'09                  | 185.2                                   | 108.6                                | 2.0   | 16.0  |  |  |
| FEBRUARY'09                 | 145.1                                   | 99.1                                 | 2.0   | 12.1  |  |  |
| MARCH'09                    | 150.3                                   | 98.6                                 | 2.0   | 14.3  |  |  |
| Annual Avg.                 | 122.0                                   | 91.7                                 | 2.0   | 16.0  |  |  |

**Table 5.1.2: Ambient Air Quality monitoring data at EPIP, Byrnihat, Ri-Bhoi District (Station – III)\***

| MONTH &<br>YEAR<br>2008 - 2009   | PARAMETERS TESTED<br>(MONTHLY AVERAGES) |                 |                            |                            | Permissible Limits<br>(Annual avg.) |                           |
|--|---|-----------------|----------------------------|----------------------------|-------------------------------------|---------------------------|
|  | SPM<br>(µg/m³)                          | RSPM<br>(µg/m³) | SO <sub>2</sub><br>(µg/m³) | NO <sub>x</sub><br>(µg/m³) | Pollutants                          | Concentrations<br>(µg/m³) |
| JANUARY'09   | 143.2                                   | 108.1           | 2.0                        | 9.6                        |                                     | SPM                       |
| FEBRUARY'09  | 171.3                                   | 132.6           | 2.0                        | 17.5                       | 360                                 |                           |
| MARCH'09   | 205.7                                   | 158.1           | 2.0                        | 19.0                       | RSPM                                | 120                       |
| Annual Avg.  | 173.4                                   | 132.9           | 2.0                        | 15.3                       | SO <sub>2</sub>                     | 80                        |
|  |   |                 |                            |                            | NO <sub>x</sub>                     | 80                        |
| Permissible limits of Ambient Air Quality Standards (National) for Industrial areas as per<br>EPA Notification GSR 176(E), April 02, 1996. |   |                 |                            |                            |                                     |                           |

\* Station – III has been in operation from January 2009.



### (B) 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 5.1.3 : Ambient Air Quality monitoring data at Umiam Industrial Estate, Ri-Bhoi District (Station – I)\***

| MONTH &<br>YEAR<br>2008 - 2009 | PARAMETERS TESTED<br>(MONTHLY AVERAGES) |                                      |   |   | Permissible Limits<br>(Annual avg.)   |  |
|--------------------------------|---|--------------------------------------|---|---|---|--|
|                                | SPM<br>( $\mu\text{g}/\text{m}^3$ )     | RSPM<br>( $\mu\text{g}/\text{m}^3$ ) | SO <sub>2</sub><br>( $\mu\text{g}/\text{m}^3$ ) | NO <sub>x</sub><br>( $\mu\text{g}/\text{m}^3$ ) |   | Concentrations<br>( $\mu\text{g}/\text{m}^3$ ) |
| AUGUST'08                      | 96.9                                    | 79.4                                 | 2.0   | 8.3   | Pollutants  | Industrial areas                               |
| SEPTEMBER'08                   | 105.8                                   | 90.5                                 | 2.0   | 11.4  | SPM   | 360  |
| OCTOBER'08                     | 104.9                                   | 88.3                                 | 2.0   | 12.0  | RSPM  | 120  |
| NOVEMBER'08                    | 98.3                                    | 82.6                                 | 2.0   | 10.2  | SO <sub>2</sub>   | 80   |
| DECEMBER'08                    | 87.7                                    | 75.3                                 | 2.0   | 10.9  | NO <sub>x</sub>   | 80   |
| JANUARY'09                     | 108.9                                   | 93.8                                 | 2.0   | 11.0  | Permissible limits of Ambient Air<br>Quality Standards (National) for<br>Industrial areas as per EPA<br>Notification GSR 176(E), April 02,<br>1996. |  |
| FEBRUARY'09                    | 110.5                                   | 94.7                                 | 2.0   | 10.9  |   |  |
| MARCH'09                       | 110.2                                   | 93.3                                 | 2.0   | 12.9  |   |  |
| Annual Avg.                    | 68.6                                    | 58.1                                 | 2.0   | 7.3   |   |  |

\* Station – I has been in operation from August 2008.

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

The Board carried out ambient air quantity (Table 5.1.4) and source emission (Table 5.1.5) monitoring for some industrial units operating in the state. The following results were obtained during the monitoring: -

Table 5.1.4 : Ambient Air Quality Data

| Sl.No | Date of Sampling | Name of Industry/Location             | R.S.P.M<br>(~g/m <sup>3</sup> ) | S.P.M<br>(~g/m <sup>3</sup> ) | SO <sub>2</sub><br>(~g/m <sup>3</sup> ) | NO <sub>X</sub><br>(~g/m <sup>3</sup> ) | Remarks                   | Permissible Limits<br>(24 hrs avg.)   |                       |
|-------|------------------|---------------------------------------|---------------------------------|-------------------------------|---|---|---------------------------|---|-----------------------|
|       |                  |                                       |                                 |                               |   |   |                           | Pollutants  | Con <sup>c</sup>      |
| 1.    | 01.04.2008       | M/S Jaintia Coke (P) Ltd., Lumshnong. | 176.3                           | 230.0                         | 10.1                                    | 21.3                                    | RSPM is above the limits  | SO <sub>2</sub>   | 120 ug/m <sup>3</sup> |
| 2.    | 01.04.2008       | M/S Jaintia Coke (P) Ltd., Lumshnong. | 153.4                           | 199.7                         | 16.5                                    | 29.5                                    | RSPM is above the limits  | NO <sub>x</sub>   | 120 ug/m <sup>3</sup> |
| 3.    | 23.04.2008       | M/S Mawsmi Lime Kiln, Sohra.          | 85.7                            | 102.5                         | 2.0                                     | 10.5                                    | Within Permissible Limits | RSPM  | 150 ug/m <sup>3</sup> |
| 4.    | 23.04.2008       | M/S Mawsmi Lime Kiln, Sohra.          | 115.3                           | 141.9                         | 10.4                                    | 17.8                                    | Within Permissible Limits | SPM   | 500 ug/m <sup>3</sup> |
| 5.    | 23.04.2008       | M/S Mawsmi Lime Kiln, Sohra.          | 181.2                           | 225.4                         | 21.8                                    | 35.1                                    | RSPM is above the limits  | Permissible limits of Ambient Air Quality Standards (National) for Industrial areas as per EPA Notification GSR 176(E), April 02, 1996. |                       |

**Table 5.1.5 : Stack Monitoring of Industries**

| Sl. No | Date of Sampling | Name of Location                        | Type of Stack      | Parameters tested | Observed value | Permissible limits (mg/Nm <sup>3</sup> ) | Remarks (mg/Nm <sup>3</sup> ) |
|--------|------------------|---|--------------------|-------------------|----------------|--|-------------------------------|
| 1.     | 01.04.2008       | M/S Jaintia Coke Pvt. Ltd, Lumshnong    | Brick              | PM                | 3081.0         | 150                                      | Above permissible limits      |
| 2.     | 06.08.2008       | M/S Satya Megha Pvt. Ltd, EPIP, Bymihat | Scrubber           | PM                | 21.0           | 150                                      | Within permissible limits     |
| 3.     | 05.02.2009       | M/S Abhi Coke (P) Ltd, Lad Rymbai       | Bee Hive coke oven | PM                | 130.3          | 150                                      | Within permissible limit      |

### (B) ASSESSMENT OF VEHICULAR POLLUTION

The Board has an Auto-emission-testing centre in its office premises at Lumpyngngad, Shillong which has been functioning since January 1994. This Centre caters to the exhaust testing needs for the commercial petrol - driven light vehicles only.

As per arrangement with the Office of the Commissioner of Transport, Meghalaya, the periodical renewal of permit of taxis are subject to submission of “Green Certificates” issued from the Office of the Board. During the year 2008-2009, the number of vehicles tested at the Centre is as follows:-

| PERIOD                         | TYPE OF VEHICLES     | TOTAL NO. OF VEHICLES TESTED | PERCENTAGE OF VEHICLES COMPLYING TO EMISSION STANDARDS | PERCENTAGE NOT COMPLYING TO EMISSION STANDARDS |
|--------------------------------|----------------------|------------------------------|--|--|
| 01.04.2008<br>to<br>31.03.2009 | Petrol-Driven<br>LMV | 1378                         | 99.3%  | 0.7%   |

## 5.2 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 -5.2.1 : Monitoring Stations under National Water Monitoring Programme**

| Sl.No.               | Name of monitoring stations | Location     | 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 & intensity, Odor, Visible effluent discharge, human.  | Turbidity, Alkalinity, Total Hardness, NH <sub>3</sub> -N,   |
| 3                    | Uiam lake                   | Uiam         |   |  |
| 4                    | Ward's lake                 | Shillong     |   |  |
| 5                    | Thadlaskein lake            | Thadlaskein  |   |  |
| 6                    | Myntdu river                | Jowai        | ii. <b><u>Physico-chemical &amp; bacteriological parameters:</u></b><br>Dissolved Oxygen ,pH, Conductivity, Biological Oxygen Demand, Nitrate Nitrogen, Nitrite Nitrogen, Total Coliform and Fecal Coliform | Kjeldahl-N, Calcium, Magnesium, Potassium, Sodium, Sulphates, Phosphates, COD, As, Zn, Cu, Cr, Cd, Pb, Fe, Ni, |
| 7                    | Ganol river                 | Tura         |   |  |
| 8                    | Simsang river               | Williamnagar |   |  |

|                     |                     |           |  |          |
|---------------------|---------------------|-----------|--|----------|
|                     |                     |           | iii. <b><u>Biomonitoring:</u></b><br>Saprobity Index,<br>Diversity Index | Flouride |
| <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        | Byrnihat  |  |          |

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

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

**Umiam Lake:** In the year 2008, the level of the Dissolved Oxygen values is meeting the desired class throughout the year. The Biochemical Oxygen Demand value is above 3mg/L which is found to be above the desired class, the value ranges from 6.5mg/L to 10.5mg/L. The organic pollution examined in terms of Biochemical Oxygen Demand & Coliform count indicates the extent of water quality degradation. Similarly Total and Faecal Coliform which indicate presence of pathogens in water are also of major concern. As per the Primary Water Quality Criteria this water body falls under 'D' class indicating that the quality of the lake water is suitable for preparation of wildlife and fisheries. The concentration of Dissolved Oxygen, Biochemical Oxygen Demand, Total and Faecal Coliform of the monitoring station is depicted in figures below.



Fig 1.0: Concentration of Dissolved Oxygen & Bio-Chemical Oxygen Demand of Umiam Lake

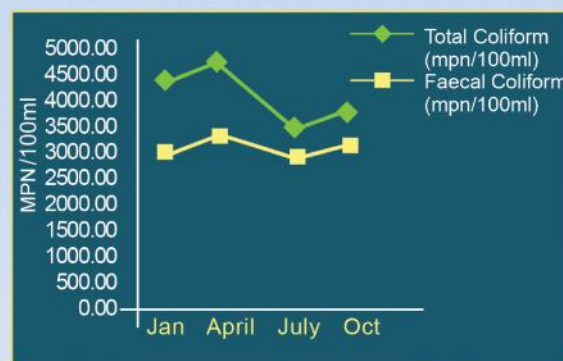


Fig 2.0: Bacterial Count (Total & Faecal Coliform) of Umiam Lake

**Ward's Lake:** In the year 2008 the Dissolved Oxygen value is meeting the desired class and the value ranges from 7.0mg/l to 8.5 mg/l. The Biochemical Oxygen Demand value is above the desired class and it ranges from 6.0mg/l to 7.2mg/l. The total and Faecal Coliform are high indicating the deteriorating condition of the lake. The monitoring data results indicate that Biochemical Oxygen Demand and bacterial contaminations are the main critical pollutant in the water body. As per the Primary Water Quality Criteria, the lake falls under 'D' class. The water quality of the lake with respect to Dissolved Oxygen, Biochemical Oxygen Demand, Total and Faecal Coliform is presented below.

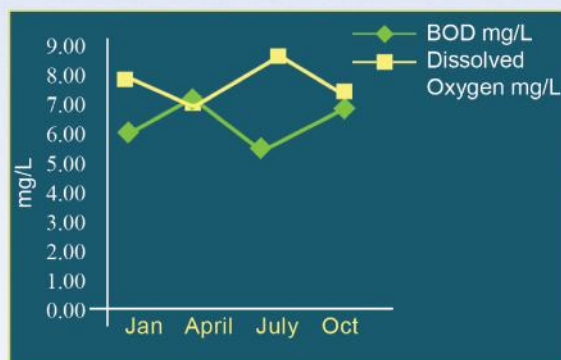


Fig 3.0: Concentration of Dissolved Oxygen & Bio-Chemical Oxygen Demand of Ward's Lake

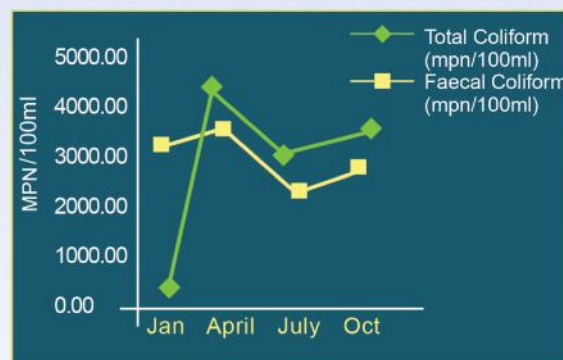


Fig 4.0: Bacterial Count (Total & Faecal Coliform) of Ward's Lake



**Umtrew River:** In the year 2008 the Dissolved Oxygen value is within the desired limit and it ranges from 8.6mg/l to 9.6mg/l. The Biochemical Oxygen Demand is above the limit for the desired class, value ranges from 4.4mg/l to 5.5mg/l. The Total and Faecal Coliform are also detected although their numbers are within the limit for the desired class.

As per the Primary Water Quality Criteria, the river water falls under 'D' class. The water quality with respect to Dissolved Oxygen, Biochemical Oxygen Demand, Total and Faecal Coliform is presented in figures below.

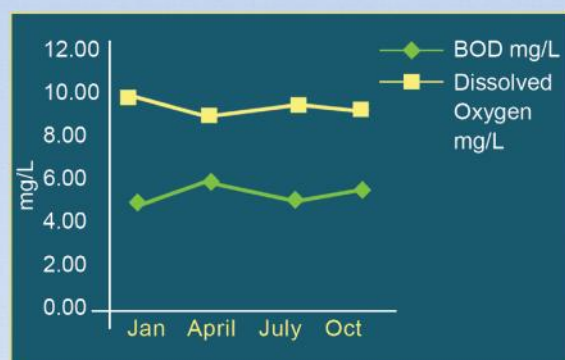


Fig 5.0: Concentration of Dissolved Oxygen & Bio-Chemical Oxygen Demand of Umtrew River

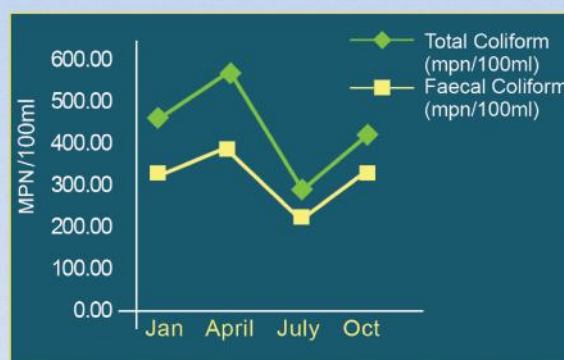


Fig 6.0: Bacterial Count (Total & Faecal Coliform) of Umtrew River

**Kyrhuhkhla River:** In the year 2008 the pH value was found to be as low as 2.7. The Biochemical Oxygen Demand value is found to be above the limit for the desired class and ranges from 5.0mg/l to 7.5mg/l. The concentration of Dissolved Oxygen, Biochemical Oxygen Demand, Total and Faecal Coliform is presented in figures below.

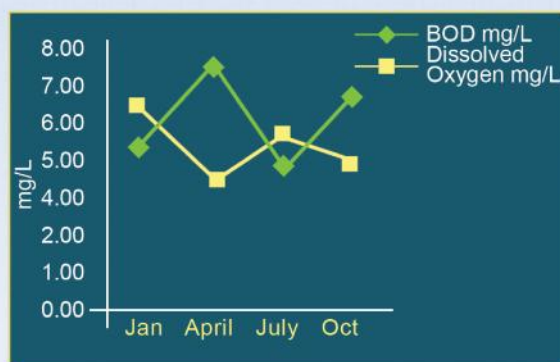


Fig 7.0: Concentration of Dissolved Oxygen & Bio-Chemical Oxygen Demand of Kyrhuhkhla River

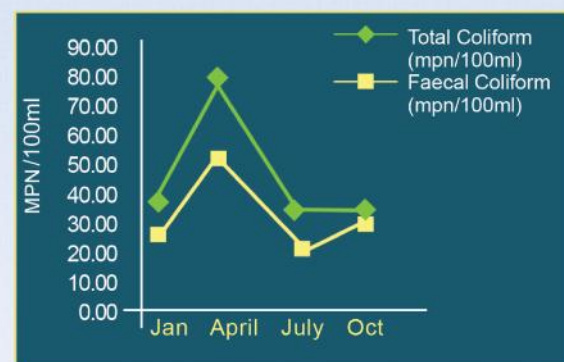
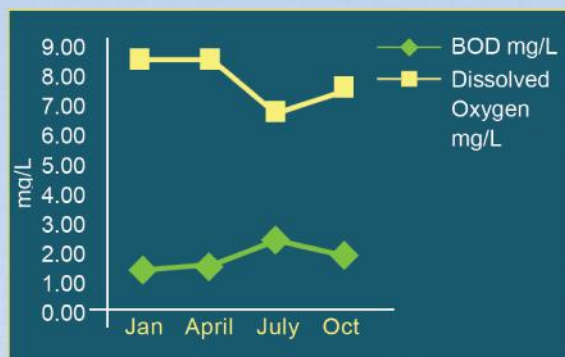
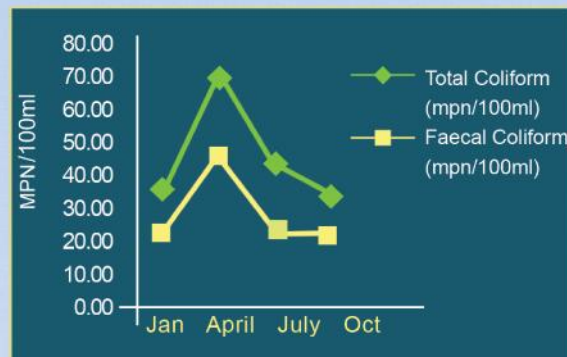


Fig 8.0: Bacterial Count (Total & Faecal Coliform) of Kyrhuhkhla River

**Thadlaskein Lake:** The monitoring results show the presence of organic pollutant viz Biochemical Oxygen Demand, Total and Faecal Coliform are also detected. The lake water falls under 'C' class as per Primary Water Quality Criteria. The concentration of Dissolved Oxygen, Biochemical Oxygen Demand, Total and Faecal Coliform of the monitoring station are depicted in figures below.

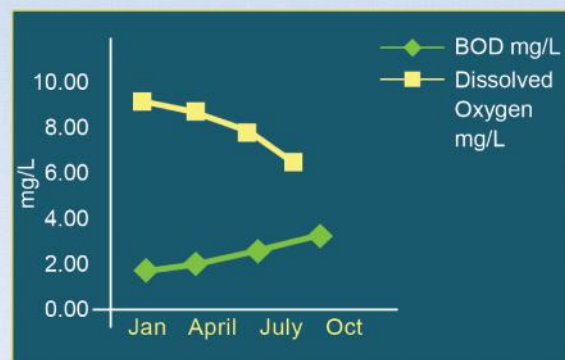


**Fig 9.0: Concentration of Dissolved Oxygen & Bio-Chemical Oxygen Demand of Thadlaskein Lake**

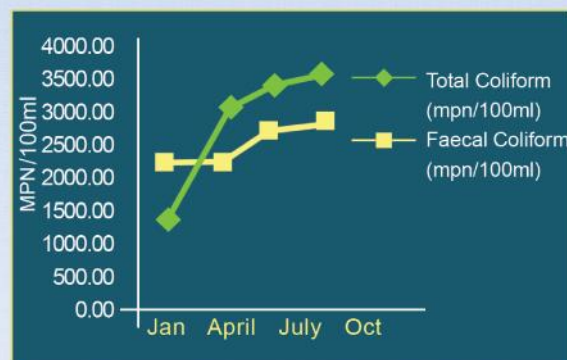


**Fig 10.0: Bacterial Count (Total & Faecal Coliform) of Thadlaskein Lake**

**Myntdu River:** The monitoring results reveal the presence of Total and Faecal Coliform. As per the Primary Water Quality Criteria, the river water falls under 'C' class. The concentration of Dissolved Oxygen, Biochemical Oxygen Demand, Total and Faecal Coliform are depicted in figures below.



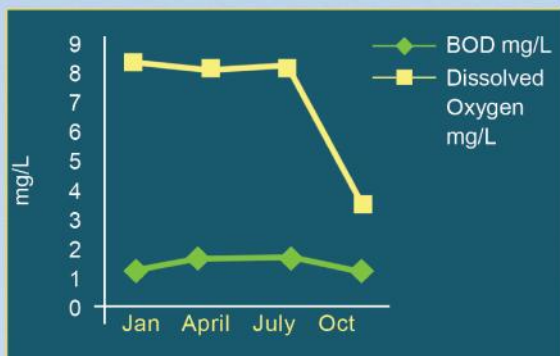
**Fig 11.0: Concentration of Dissolved Oxygen & Bio-Chemical Oxygen Demand of Myntdu River**



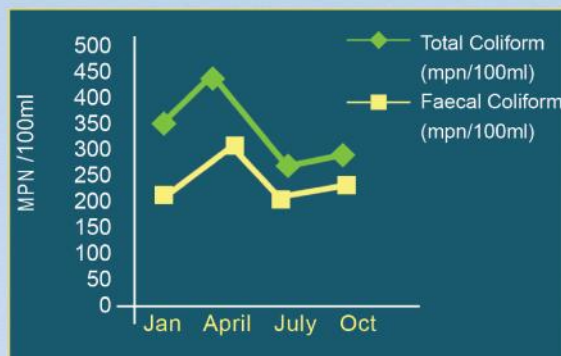
**Fig 12.0: Bacterial Count (Total & Faecal Coliform) of Myntdu River**

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





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

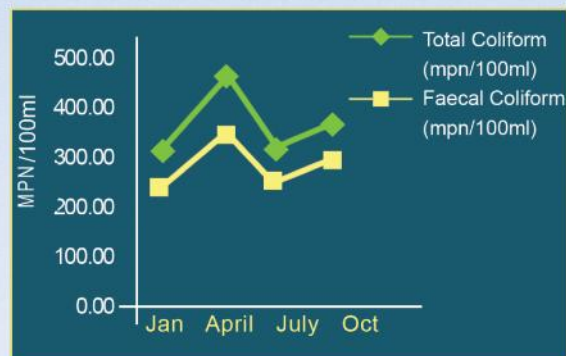


**Fig 14.0: Bacterial Count (Total & Faecal Coliform) of Ganol River**

**Simsang River:** The monitoring results show the presence of Bacterial Count ranging from 310mpn/100ml to 460mpn/100ml for Total Coliform and 230mpn/100ml-340mpn/100ml for Faecal coliform. As per the Primary Water Quality Criteria, the river water falls under 'B' class. The concentration of Dissolved Oxygen, Biochemical Oxygen Demand, Total and Faecal Coliform are depicted in figures below.



**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**

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

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

**Table 5.2.2 : Ground water quality monitoring during 2008**

| Stations                               | April 2008  |               |                  |                  | October 2008 |               |                  |                  |
|--|-------------|---------------|------------------|------------------|--------------|---------------|------------------|------------------|
|  | D.O<br>mg/l | B.O.D<br>mg/l | T.C<br>MPN/100ml | F.C<br>MPN/100ml | D.O<br>mg/l  | B.O.D<br>mg/l | T.C<br>MPN/100ml | F.C<br>MPN/100ml |
| Police<br>Bazar<br>Spring,<br>Shillong | 3.4         | 1.5           | 33               | 27               | 5.6          | 1.2           | 63               | 46               |
| Mawpdang<br>Spring,<br>Shillong        | 3.6         | 3.0           | 110              | 79               | 4.2          | 2.2           | 70               | 49               |
| Wah-U-<br>Dkhar<br>Spring,<br>Sohra    | 7.0         | 0.2           | 27               | 22               | 5.0          | 0.3           | 33               | 27               |
| Umsahep<br>Spring,<br>Shangpung        | 8.8         | 0.56          | 7                | 0                | 5.6          | 1.7           | 27               | 13               |
| Narbong<br>Well,<br>Byrnihat           | 3.5         | 1.4           | 34               | 27               | 3.6          | 1.2           | 27               | 22               |

**Table 5.2.2 : 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(BOD), mg/l,Max   | 2       | 3       | 3       | -       | -       |
| 3.     | Total Coliform organism** MPN/100ml,Max.   | 50      | 500     | 5,000   | -       | -       |
| 4.     | pH value                                   | 6.5-8.5 | 6.5-8.5 | 6.0-9.0 | 6.5-8.5 | 6.5-8.5 |
| 5.     | Free ammonia (as N), mg/l,Max              | -       | -       | -       | 1.2     | -       |
| 6.     | Electrical conductivity, micromhos/cm,Max. | -       | -       | -       | -       | 2,250   |
| 7.     | Sodium adsorption ratio,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.

### 5.2.3 : Concentrations of Heavy Metals in Surface Water Bodies

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

**Table-5.2.4 : Concentration of Heavy Metals in Surface Water Bodies, 2008**

| Sl. No. | Station Name     | Parameters    |               |             |             |                 |                |                |      |
|---------|------------------|---------------|---------------|-------------|-------------|-----------------|----------------|----------------|------|
|         |                  | Nickel (mg/l) | Copper (mg/l) | Zinc (mg/l) | Lead (mg/l) | Chromium (mg/l) | Cadmium (mg/l) | Arsenic (mg/l) | Iron |
| 1.      | Umiam Lake       | BDL           | BDL           | 0.32        | BDL         | BDL             | BDL            | BDL            | 0.50 |
| 2.      | Ward's Lake      | BDL           | BDL           | 0.056       | BDL         | BDL             | BDL            | BDL            | 0.4  |
| 3.      | Umtrew River     | BDL           | BDL           | 0.007       | BDL         | BDL             | BDL            | BDL            | 0.85 |
| 4.      | Kyrhukhla River  | BDL           | 0.011         | 0.104       | 0.019       | BDL             | BDL            | BDL            | 3.4  |
| 5.      | Thadlaskein Lake | BDL           | BDL           | 0.622       | BDL         | BDL             | BDL            | BDL            | 1.4  |
| 6.      | Myntdu River     | BDL           | BDL           | BDL         | BDL         | BDL             | BDL            | BDL            | 2.3  |
| 7.      | Ganol River      | BDL           | BDL           | BDL         | BDL         | 0.02            | BDL            | BDL            | 0.25 |
| 8.      | Simsang River    | BDL           | BDL           | BDL         | BDL         | BDL             | BDL            | BDL            | 0.49 |

### 5.2.5 : Metals in Ground Water

The ground water monitored under NWMP are mostly used for drinking purposes, therefore the concentration of the metals in these stations is compared with the I.S.I standards for drinking purpose. In interpreting the data during 2009 (Table 5.2.5), it is found that the metal concentration in the station monitored is found to be within desirable limits except at the station police bazaar spring where the Iron content is found to be higher than the desirable limits.

**Table-5.2.5 : Metals of Ground Water for the year 2008, with desirable limit as per IS10500:1991**

| Sl. No. | Parameters             | Desirable Limits (ISI-10500, 1991) | Station Name |          |             |         |         |
|---------|------------------------|------------------------------------|--------------|----------|-------------|---------|---------|
|         |                        |                                    | Police Bazar | Mawpdang | Wah-U-Dkhar | Umsahep | Narborg |
| 1.      | <b>Nickel (mg/l)</b>   | -                                  | BDL          | BDL      | BDL         | BDL     | BDL     |
| 2.      | <b>Copper (mg/l)</b>   | 0.05                               | BDL          | BDL      | BDL         | BDL     | BDL     |
| 3.      | <b>Zinc (mg/l)</b>     | 5.0                                | 0.06         | 0.02     | 0.005       | 0.173   | 0.5     |
| 4.      | <b>Lead (mg/l)</b>     | 0.05                               | BDL          | BDL      | BDL         | BDL     | BDL     |
| 5.      | <b>Chromium (mg/l)</b> | -                                  | BDL          | BDL      | BDL         | BDL     | BDL     |
| 6.      | <b>Cadmium (mg/l)</b>  | 0.01                               | BDL          | BDL      | BDL         | BDL     | BDL     |
| 7.      | <b>Arsenic (mg/l)</b>  | 0.01                               | BDL          | BDL      | BDL         | BDL     | BDL     |
| 8.      | <b>Iron (mg/l)</b>     | 0.3                                | 0.92         | 1.0      | 0.2         | -       | 0.16    |

### 5.2.6 : Biomonitoring of Surface Water Bodies

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

**Table 5.2.6 : Bio-Monitoring of Surface Water Bodies, 2008**

| Sl. No. | Surface Water Bodies | Saprobic Score | Diversity Score | Biological Water Quality Class | Biological Water Quality |
|---------|----------------------|----------------|-----------------|--------------------------------|--------------------------|
| 1.      | Umiam                | 4.2            | 0.45            | C                              | Moderate Pollution       |
| 2.      | Ward's Lake          | 5.5-5.8        | 0.5             | C                              | Moderate Pollution       |
| 3.      | Umtrew               | 5.2-5.6        | 0.4-0.5         | C                              | Moderate Pollution       |
| 4.      | Kyrhuhkhla           | 5.5-5.6        | 0.5-0.54        | C                              | Heavy Pollution          |
| 5.      | Thadlaskein          | 6.0-6.4        | 0.6-0.65        | B                              | Slight Pollution         |
| 6.      | Myntdu               | 6.0-6.2        | 0.62-0.65       | B                              | Slight Pollution         |
| 7.      | Ganol                | 6.5-6.8        | 0.55-0.60       | B                              | Slight Pollution         |
| 8.      | Simsang              | 6.4-6.5        | 0.55-0.6        | B                              | Slight Pollution         |

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

In addition to the regular programme, the Board also conducted the analysis of water samples for drinking, construction purposes, soil samples etc received from government departments, private agencies and research scholars. A total of 275 samples were tested during the year.

### 5.3 NOISE LEVEL MONITORING DURING DIWALI FESTIVAL.

Monitoring of noise levels was carried out at selected location of Shillong on the 24<sup>th</sup> October 2008 before Diwali and on Diwali Day i.e. the 28<sup>th</sup> October 2008 to compare the noise levels during day time and night time before and on the Festival day. The monitoring was conducted in compliance with the Govt. of India Notification NO. G.S.R. 682 (E) dated 5<sup>th</sup> October, 1999 and the interim directions of the Honorable Supreme Court.

The findings of the monitoring results are given in tables 5.3.0 & 5.3.1. Table 5.3.0 presents the day and night time noise levels at Lumpyngngad on pre and on Diwali day. As per the findings it can be observed that there is not much difference in the day and night time average equivalent sound level (Leq) before and on Diwali day. However, the noise level on Diwali day is observed to be at its peak in the time slot between 18:00 Hrs. (6:00 p.m.)

to 22:00 Hrs. (10:00 p.m.) which is the usual observed time period where the bursting of crackers is maximum. Table 5.3.1 presents the day and night noise levels at Police Bazar on pre and on Diwali day. It is observed that there is no marked difference in day time average equivalent sound level ( $L_{eq}$ ) at Police Bazar before and on Diwali day. However, the average night time sound level on Diwali day is quite high compared to that on pre-Diwali. On Diwali day the maximum noise level recorded is seen to be in the time slot between 20:00 Hrs. (8:00 p.m. and 23:00 p.m.). This is the time when business activity in this area comes to a close. However, the average day and night time sound level before and on Diwali day is less compared to that in the year 2007.

As per the findings it can be observed that the noise level shows to be a more prominent contribution to noise increase in the nighttime than in the daytime. The bursting of crackers is mainly responsible for enhancement of noise level during festival. Since it is the festival time, people should themselves be aware of the harmful effects of pollution caused by firecrackers and should minimize the number of crackers burst by them.

**Table 5.3.0 : AMBIENT NOISE LEVEL AT LUMPYNGNGAD BEFORE AND ON DIWALI DAY 2008  
(CATEGORY – RESIDENTIAL AREA)**

| S. No.  | Time Duration            | Ambient Noise standard dB(A) Leq                                   | Noise Monitored               |                               |
|---|--------------------------|--|-------------------------------|-------------------------------|
|   |                          |  | Before Diwali                 | On Diwali day                 |
|   |                          |  | 24 <sup>th</sup> October 2008 | 28 <sup>th</sup> October 2008 |
| 1.  | 00:00 Hrs. to 01:00 Hrs. | 45   | 40.8                          | 39.7                          |
| 2.  | 01:00 Hrs. to 02:00 Hrs. | 45   | 40.5                          | 39.4                          |
| 3.  | 02:00 Hrs. to 03:00 Hrs. | 45   | 41.6                          | 39.3                          |
| 4.  | 03:00 Hrs. to 04:00 Hrs. | 45   | 42.7                          | 39.4                          |
| 5.  | 04:00 Hrs. to 05:00 Hrs. | 45   | 43.1                          | 39.4                          |
| 6.  | 05:00 Hrs. to 06:00 Hrs. | 45   | 42.8                          | 39.8                          |
| 7.  | 06:00 Hrs. to 07:00 Hrs. | 55   | 45.6                          | 43.2                          |
| 8.  | 07:00 Hrs. to 08:00 Hrs. | 55   | 42.4                          | 48.3                          |
| 9.  | 08:00 Hrs. to 09:00 Hrs. | 55   | 46.3                          | 45.9                          |
| 10.   | 09:00 Hrs. to 10:00 Hrs. | 55   | 48.8                          | 47.0                          |
| 11.   | 10:00 Hrs. to 11:00 Hrs. | 55   | 50.7                          | 46.3                          |
| 12.   | 11:00 Hrs. to 12:00 Hrs. | 55   | 46.6                          | 51.8                          |
| 13.   | 12:00 Hrs. to 13:00 Hrs. | 55   | 46.8                          | 50.4                          |
| 14.   | 13:00 Hrs. to 14:00 Hrs. | 55   | 42.4                          | 46.6                          |
| 15.   | 14:00 Hrs. to 15:00 Hrs. | 55   | 47.0                          | 46.3                          |
| 16.   | 15:00 Hrs. to 16:00 Hrs. | 55   | 47.2                          | 50.0                          |
| 17.   | 16:00 Hrs. to 17:00 Hrs. | 55   | 49.0                          | 48.3                          |
| 18.   | 17:00 Hrs. to 18:00 Hrs. | 55   | 51.2                          | 53.3                          |
| 19.   | 18:00 Hrs. to 19:00 Hrs. | 55   | 52.3                          | 58.2                          |
| 20.   | 19:00 Hrs. to 20:00 Hrs. | 55   | 42.8                          | 58.5                          |
| 21.   | 20:00 Hrs. to 21:00 Hrs. | 55   | 44.1                          | 55.6                          |
| 22.   | 21:00 Hrs. to 22:00 Hrs. | 45   | 46.3                          | 55.6                          |
| 23.   | 22:00 Hrs. to 23:00 Hrs. | 45   | 40.8                          | 47.7                          |
| 24.   | 23:00 Hrs. to 24:00 Hrs. | 45   | 40.4                          | 43.2                          |
| Average equivalent sound level (Leq) in dB(A) |                          | Day time (06:00 Hrs. to 21:00 Hrs.)                                | 46.9                          | 50.0                          |
|   |                          | Night time (00:00 Hrs. to 06:00 Hrs. and 21:00 Hrs. to 24:00 Hrs.) | 42.1                          | 42.6                          |

- Note: 1. Day time is reckoned between 6:00 a.m. and 9:00 p.m.  
2. Night time is reckoned between 9:00 p.m. and 6:00 a.m.  
3. Ambient Noise Standards as per Noise Pollution (Regulation & Control) Rules, 2000.



**Table 5..3.1 : AMBIENT NOISE LEVEL AT POLICE BAZAR BEFORE AND ON DIWALI DAY 2008  
(CATEGORY – COMMERCIAL AREA)**

| Sl. No.                                       | Time Duration            | Ambient Noise standard dB(A) Leq                                   | Noise Monitored               |                               |
|---|--------------------------|--|-------------------------------|-------------------------------|
|   |                          |  | Before Diwali                 | On Diwali day                 |
|   |                          |  | 24 <sup>th</sup> October 2008 | 28 <sup>th</sup> October 2008 |
| 1.  | 00:00 Hrs. to 01:00 Hrs. | 55   | 42.2                          | 57.6                          |
| 2.  | 01:00 Hrs. to 02:00 Hrs. | 55   | 41.5                          | 56.0                          |
| 3.  | 02:00 Hrs. to 03:00 Hrs. | 55   | 41.2                          | 56.2                          |
| 4.  | 03:00 Hrs. to 04:00 Hrs. | 55   | 42.0                          | 57.5                          |
| 5.  | 04:00 Hrs. to 05:00 Hrs. | 55   | 48.0                          | 58.0                          |
| 6.  | 05:00 Hrs. to 06:00 Hrs. | 55   | 57.3                          | 59.5                          |
| 7.  | 06:00 Hrs. to 07:00 Hrs. | 65   | 62.1                          | 61.6                          |
| 8.  | 07:00 Hrs. to 08:00 Hrs. | 65   | 63.7                          | 62.5                          |
| 9.  | 08:00 Hrs. to 09:00 Hrs. | 65   | 66.2                          | 63.7                          |
| 10.   | 09:00 Hrs. to 10:00 Hrs. | 65   | 66.4                          | 63.1                          |
| 11.   | 10:00 Hrs. to 11:00 Hrs. | 65   | 67.2                          | 64.5                          |
| 12.   | 11:00 Hrs. to 12:00 Hrs. | 65   | 67.4                          | 65.3                          |
| 13.   | 12:00 Hrs. to 13:00 Hrs. | 65   | 67.4                          | 66.1                          |
| 14.   | 13:00 Hrs. to 14:00 Hrs. | 65   | 67.5                          | 66.7                          |
| 15.   | 14:00 Hrs. to 15:00 Hrs. | 65   | 67.5                          | 65.1                          |
| 16.   | 15:00 Hrs. to 16:00 Hrs. | 65   | 67.8                          | 62.8                          |
| 17.   | 16:00 Hrs. to 17:00 Hrs. | 65   | 67.5                          | 66.6                          |
| 18.   | 17:00 Hrs. to 18:00 Hrs. | 65   | 65.3                          | 82.3                          |
| 19.   | 18:00 Hrs. to 19:00 Hrs. | 65   | 63.4                          | 74.8                          |
| 20.   | 19:00 Hrs. to 20:00 Hrs. | 65   | 62.2                          | 75.6                          |
| 21.   | 20:00 Hrs. to 21:00 Hrs. | 65   | 62.1                          | 96.5                          |
| 22.   | 21:00 Hrs. to 22:00 Hrs. | 55   | 59.9                          | 90.0                          |
| 23.   | 22:00 Hrs. to 23:00 Hrs. | 55   | 57.7                          | 85.9                          |
| 24.   | 23:00 Hrs. to 24:00 Hrs. | 55   | 57.1                          | 76.3                          |
| Average equivalent sound level (Leq) in dB(A) |                          | Day time (06:00Hrs. to 21:00 Hrs.)                                 | 65.6                          | 69.1                          |
|   |                          | Night time (00:00 Hrs. to 06:00 Hrs. and 21:00 Hrs. to 24:00 Hrs.) | 49.6                          | 66.3                          |

- Note:
1. Day time is reckoned between 6:00 a.m. and 9:00 p.m.
  2. Night time is reckoned between 9:00 p.m. and 6:00 a.m.
  3. Ambient Noise Standards as per Noise Pollution (Regulation & Control) Rules, 2000.

#### 5.4 Ambient Air Quality Before and During Diwali Festival.

Ambient Air Quality monitoring was carried out before and during Diwali Festival at Board's Premises (Table 5.4.0) and MUDA Complex, Police Bazar, Shillong (Table 5.4.1) using Respirable Dust Sampler. The recorded values shows that the Suspended Particulate Matter and Respirable Suspended Particulate Matter concentrations were found to be above the permissible limits of Ambient Air Quality Standards (National) at MUDA Complex, as per EPA Notification: GSA 176 (E), April 2002, 1996.

Further it was observed that the level of SPM, RSPM at MUDA Complex increases alarmingly during Diwali festival. The increases mainly due to bursting of crackers increase of vehicular traffic density during the festival. Since it is a festive time people should themselves be aware of the harmful effects of pollution caused by firecrackers and should maximize the no. of cracks burst by them.

**Table 5.4.0 : Ambient Air Quality Data Monitoring before and during Diwali festival on October 2008 at Board's Premises**

| PARAMETERS TESTED (AVERAGE)  | BEFORE DIWALI | DURING DIWALI | Permissible Limits (24 hours avg.) |                                     |
|--|---------------|---------------|------------------------------------|-------------------------------------|
| SPM (µg/m³)  | 74.7          | 82.7          | Pollutants                         | Cocentrations (µg/m³)               |
| RSPM (µg/m³)   | 62.6          | 70.4          |                                    | Residential, Rural, and Other areas |
| SO <sub>2</sub> (µg/m³)  | BDL           | BDL           | SPM                                | 200                                 |
| NO <sub>x</sub> (µg/m³)  | 4.9           | 10.2          | RSPM                               | 100                                 |
|  |               |               | SO <sub>2</sub>                    | 80                                  |
|  |               |               | NO <sub>x</sub>                    | 80                                  |
| Permissible limits of Ambient Air Quality Standards (National) for Residential, Rural, and Other areas as per EPA Notification GSR 176(E), April 02, 1996. |               |               |                                    |                                     |

**Table 5.4.1 : Ambient Air Quality Monitoring Data before and during Diwali festival on October 2008 at MUDA complex, Police Bazar**

| PARAMETERS TESTED (AVERAGE)  | BEFORE DIWALI | DURING DIWALI | Permissible Limits (24 hours avg.) |                                     |
|--|---------------|---------------|------------------------------------|-------------------------------------|
| SPM (µg/m³)  | 110.2         | 195.3         | Pollutants                         | Cocentrations (µg/m³)               |
| RSPM (µg/m³)   | 90.2          | 140.8         |                                    | Residential, Rural, and Other areas |
| SO <sub>2</sub> (µg/m³)  | BDL           | BDL           | SPM                                | 200                                 |
| NO <sub>x</sub> (µg/m³)  | 16.9          | 28.2          | RSPM                               | 100                                 |
|  |               |               | SO <sub>2</sub>                    | 80                                  |
|  |               |               | NO <sub>x</sub>                    | 80                                  |
| Permissible limits of Ambient Air Quality Standards (National) for Residential, Rural, and Other areas as per EPA Notification GSR 176(E), April 02, 1996. |               |               |                                    |                                     |

## 6 PRESENT STATE OF THE ENVIRONMENT, ENVIRONMENT 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 1142 polluting industrial units/establishments in the State and most of these are small and tiny units. Under large-scale industrial sector there are 9 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 re-cycle, re-use, and recover concepts.

During the year 2008-2009, the Board received 116 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. Of these, 75 nos., were granted Consent to Establish.

The names of industries/firms which applied for Consent to Establish During the year 2008-2009 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 is shown at Annexure-5. Further the industries, which were granted Renewal of the Consent to Establish/Operate, are shown in Annexure-4(B) and Annexure-5(A).

## 7 ENVIRONMENTAL RESEARCH

During the year 2008-2009, the Board continued with the following study projects: -

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

The Meghalaya state Pollution Control Board has carried out a study project entitled “Study and Evaluation of Environmental and Socio-Economic Impact of Coal Mining Impact in Jaintia Hills District”. The major objective of the study include Physico- Chemical and elemental analysis of ambient air, surface water bodies, ground water, and socio economic impact. A preliminary report has been submitted to CPCB.

However, finalization of the report shall be submitted shortly as few of the remaining works is yet to be completed.

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

The CPCB, New Delhi has sanctioned the above mentioned study in 2007-2008 at the cost of Rs. 5,00,000.00 (Rupees Five lakhs) only. The 1<sup>st</sup> installment of Rs. 2,50,000.00 was released in May 2007. The aim of study is to obtain information about the state of ecological environment of water bodies, to assess the physico-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 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 CPCB, New Delhi has sanctioned the above mentioned study in 2007-2008 at the cost of Rs. 5,00,000.00 (Rupees Five lakhs) only. The 1<sup>st</sup> installment of Rs. 2,50,000.00 was released in February 2007.

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 control 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 SPM, RSPM, SO<sub>2</sub>, NO<sub>x</sub>, meteorological data trace elements. The study work is continuing during the current year.

**D. Assessment of Ground Water Quality and Identifying of Hot Spot in the State.**

The CPCB, New Delhi has sanctioned the above mentioned study in 2007-2008 at the cost of Rs. 5,50,000.00 (Rupees Five lakhs fifty thousand) only. The 1<sup>st</sup> installment of Rs. 2,75,000.00 (Rupees Two lakhs seventy five thousand) only was released in November 2007.

The aim of study is to obtain information about the state of ecological environment of water bodies, to assess the physico-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 pre-monsoon and post-monsoon in order to obtain information regarding the overall health of major ground water of the state. The study work is continuing during the current year.

## 8 ENVIRONMENTAL TRAINING

Environmental Training is one of the important tools in the administrative system of the Board. The personnel of the Board who had undergone different trainings within the country as well as overseas have acquired knowledge, skills, concepts, rules, and enhanced the capacity building in the Board. The personnel of the Board are also invited as experts for delivering lectures and presentations on various environmental issues by reputed institutes/organizations in the state.

During 2008-2009 the personnel of the Board did not attend any training courses; workshops and seminars in the country and abroad.



## 9 ENVIRONMENTAL AWARENESS & PUBLIC PARTICIPATION

On 5th June every year, the Global Community comes together to celebrate World Environment Day. The theme selected for 2008 is climate change and the slogan is 'Kick the habit-towards low carbon economy'.

In connection with the theme and slogan of the 'World Environment Day 2008', the Meghalaya State Pollution Control Board conducted a Free Vehicular Emission Testing Camp at the Parking Lot, Polo Ground, Polo, Shillong. The objective of the camp was to create mass awareness and public participation about the need for all vehicles to reduce the harmful emissions, since the gases emitted which includes CO, HC, CO<sub>2</sub>, etc. are responsible for increasing greenhouse gases in the atmosphere resulting to climate change.

During the Free Vehicular Emission Testing Camp, petrol and diesel driven vehicles of various types were freely tested for emission. The total number of vehicles tested was 54 (fifty four), where the number of Petrol driven vehicles was 26 (twenty six) and that of Diesel driven vehicles was 28 (twenty eight). Among the Petrol driven vehicles 15% had emission above the permissible limits while among the Diesel driven vehicles 21% had emission above the permissible limits.



Vehicular Emission Testing at the Parking Lot, Polo Ground, Polo, Shillong.

## 10 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”.

## 11.1 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 2008-2009 the Board issued only 1(ONE) 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 2008 - 2009**

| Sl. No. | Name of Unit/Industry | Date of Show Cause Issued | Type of Unit/Industry | Location                  |
|---------|-----------------------|---------------------------|-----------------------|---------------------------|
| 1       | Kshiar Enterprise     | 27.02.2009                | Stone Crushing Unit   | Umtyrnga, Ribhoi District |

## 11.2 CLOSURE OF INDUSTRIAL POLLUTING UNIT

In order to facilitate 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 took the measures to issue closure notice to industrial units in the state which failed to comply with the above Acts.

During the year 2008-09 only 3 (THREE) Closure Notices were issued by the Board to the defaulting units which is shown in the table below:

**TABLE-11.2: CLOSURE NOTICE ISSUED DURING THE YEAR 2008-2009.**

| Sl. No. | Name of Unit/Industry         | Closure Notice Issued on | Type of Unit/Industry | Location                            |
|---------|-------------------------------|--------------------------|-----------------------|-------------------------------------|
| 1       | Megha Bread (Bakery)          | 17.03.2009               | Bakery Unit           | Rilbong, Shillong, East Khasi Hills |
| 2       | Tyre Rethreading Works        | 12.03.2009               | Tyre Rethreading Unit | Mawlai Iewrynghep, East Khasi Hills |
| 3       | Pillar Nongkhlaw Lime Factory | 17.03.2009               | Lime Factory          | Laitlyngkot, East Khasi Hills       |

## 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) Rules, 1989, 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 applications for Authorisation under the Rules from the following units:-

1. Ambika Oils North East Pvt. Ltd
2. Meghalaya Cements Ltd
3. RNB Minerals and Chemicals Pvt. Ltd
4. Umiam Calcinares Pvt Ltd
5. Hindustan Coca Cola & Beverages Ltd

### *Authorisation Granted Under the Rules*

The Board granted Authorisation under the Rules to the following units:-

1. Ambika Oils North East Pvt. Ltd
2. Hindustan Coca Cola & Beverages Ltd

The Board does not grant any Authorizations during the 2008-2009 for collection of waste/used oil from automobile workshops, etc. and transporting the same to registered recyclers in Assam were renewed for a further period of one year.



**Authorisation Renewal :** During the year 2008-09 the Board granted Authorisation Renewal to M/S Lafarge Umiam Mining Pvt. Ltd.

### **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.

#### **As per the Annual Report on Bio-medical Waste for the year 2008-2009 :-**

1. The total number of health care facilities in the State is 140.
2. There are 4462 numbers of beds in the hospitals of the State.
3. 22 Nos., of HCFs are utilizing Common Bio-medical Waste Incinerator installed at Mawiong by Shillong Municipal Board.
4. The total quantity of BMW generated per day is estimated at 1000.5 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.

**As per the Annual Report on Municipal Solid Waste for the year 2008-2009:-**

1. The total number of Municipal Authorities in the State is 7 (seven).
2. Number of towns in the state is 16(sixteen) (as per census 2001).
3. The total number of Application received from Urban Local Bodies (ULBs) is 4 (four) and Authorisation granted is 2(two) and 2 has not yet granted.
4. Out of 16 towns only Shillong Municipal Board and Shillong Cantonment Board have taken some good initiatives in the collection, storage and transportation of Municipal Solid Waste.
5. Presently there is 1(one) Vermicompost and 1(one) mechanical compost plant operating in the State.
6. There are 5(five) open dumping sites in the State while 1(one) landfill site has been identified.
7. 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 2008-2009 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,Indutries and Companies in the state.

### ***12.1.5 Recycled Plastics Manufacture and Usage Rules, 1999***

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

The activities of the Board includes:-

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

Registration under the Rule was renewed for two Units viz., M/S Kakarania Innovative Systems (P) Ltd.,Byrnihat and M/S Megha Polycon Pvt. Ltd, Byrnihat and a third, M/S Meghalaya Polymers,Umiam Industrial Area,Ribhoi District was granted fresh registration for manufacture of plastic carry bags and containers.

### **12.2 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 2008-2009 the total amount of Cess assessment is Rs 4,29,248(Rupees Four Lakhs twenty nine thousand two hundred forty eight) only and Cess collection is Rs. 1,21,177(Rupees One lakhs twenty one thousand one hundred seventy seven) Only. 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 2008-2009 the Board has conducted the following Public Hearing in the state.

#### 1. M/S JUD CEMENTS PRIVATE LIMITED

|                     |  |
|---------------------|--|
| PROJECT TYPE        | Cement Plant alongwith Captive coal-based Thermal Power Plant                              |
| PROJECT COST        | Rs.147.43 crores   |
| CAPACITY            | Cement 900 TPD<br>Captive Power Plant 10 MW  |
| LOCATION            | Wahiajer, Narpuh Elaka, Jaiñtia Hills District   |
| DATE OF HEARING     | 25 <sup>th</sup> April 2008  |
| LOCATION OF HEARING | Wahiajer, Narpuh Elaka, Jaiñtia Hills District   |
| STATUS              | Cleared by the State Environmental Impact Assessment Authority,<br>Government of Meghalaya |

#### 2. M/S CEMENT MANUFACTURING COMPANY LIMITED (EXPANSION)

|                     |  |
|---------------------|--|
| PROJECT TYPE        | Cement Plant   |
| PROJECT COST        | Rs.71.1 crores   |
| CAPACITY            | Cement 2400 TPD  |
| LOCATION            | Lumshnong, Jaiñtia Hills District  |
| DATE OF HEARING     | 29th April 2008  |
| LOCATION OF HEARING | Lumshnong, Jaiñtia Hills District  |
| STATUS              | Cleared by the State Environmental Impact Assessment<br>Authority, Government of Meghalaya |

**3. M/S MEGHALAYA POWER LIMITED (8 MW)**

|                     |   |
|---------------------|---|
| PROJECT TYPE        | Coal based Thermal Power Plant  |
| PROJECT COST        | Rs.33.19 crores   |
| CAPACITY            | Power Plant 8 MW  |
| LOCATION            | Lumshnong, Jaiñtia Hills District   |
| DATE OF HEARING     | 29 <sup>th</sup> April 2008   |
| LOCATION OF HEARING | Lumshnong, Jaiñtia Hills District   |
| STATUS              | Cleared by the State Environmental Impact Assessment Authority, Government of Meghalaya |

**4. M/S GREEN VALLIEY INDUSTRIES PVT. LTD.**

|                     |   |
|---------------------|---|
| PROJECT TYPE        | Cement Plant alongwith Captive coal-based Thermal Power Plant                           |
| PROJECT COST        | Rs.255.73 crores  |
| CAPACITY            | Cement 0.86 MTPA<br>Captive Power Plant 20 MW   |
| LOCATION            | Nongsning, Chiehruphi, Jaiñtia Hills District   |
| DATE OF HEARING     | 30 <sup>th</sup> May 2008   |
| LOCATION OF HEARING | Nongsning, Chiehruphi, Jaiñtia Hills District   |
| STATUS              | Cleared by the State Environmental Impact Assessment Authority, Government of Meghalaya |

**5. M/S MEGHALAYA CEMENTS LTD. (EXPANSION)**

|                     |   |
|---------------------|---|
| PROJECT TYPE        | Cement Plant alongwith Captive coal-based Thermal Power Plant                           |
| PROJECT COST        | Rs.95.5 crores  |
| CAPACITY            | Cement 2600 TPD<br>Captive Power Plant 18 MW  |
| LOCATION            | Thangskai, Lumshnong, Jaiñtia Hills District  |
| DATE OF HEARING     | 27 <sup>th</sup> June 2008  |
| LOCATION OF HEARING | Thangskai, Lumshnong, Jaiñtia Hills District  |
| STATUS              | Cleared by the State Environmental Impact Assessment Authority, Government of Meghalaya |

**6. M/S HILLS CEMENT CO. LTD**

|                     |   |
|---------------------|---|
| PROJECT TYPE        | Cement Plant alongwith Captive coal-based Thermal Power Plant and Captive Limestone mines                 |
| PROJECT COST        | Rs.360 crores   |
| CAPACITY            | Cement 3000 TPD<br>Captive Power Plant 15 MVA<br>Limestone Mine 3000 TPD (Area: (i) 16 Ha & (ii) 40.2 Ha) |
| LOCATION            | Mynkre, Jaiñtia Hills District  |
| DATE OF HEARING     | 9 <sup>th</sup> September 2008  |
| LOCATION OF HEARING | Mynkre, Jaiñtia Hills District  |
| STATUS              | Cleared by the Ministry of Environment and Forests, Government of India                                   |

**7. M/S COSMOS CEMENTS LTD.**

|                     |  |
|---------------------|--|
| PROJECT TYPE        | Cement Plant alongwith Captive coal-based Thermal Power Plant and Captive Limestone mine |
| PROJECT COST        | Rs.255.73 crores   |
| CAPACITY            | Cement 2 MTPA<br>Captive Power Plant 27 MW<br>Limestone Mine 2.3 MTPA (Area: 230 Ha)     |
| LOCATION            | Nongkhlieh, Khliehriat Sub-Division, Jaiñtia Hills District                              |
| DATE OF HEARING     | 7 <sup>th</sup> January 2009   |
| LOCATION OF HEARING | Nongkhlieh, Khliehriat Sub-Division, Jaiñtia Hills District                              |
| STATUS              | Cleared by the Ministry of Environment and Forests,<br>Government of India               |

# 13

## FINANCE AND ACCOUNTS

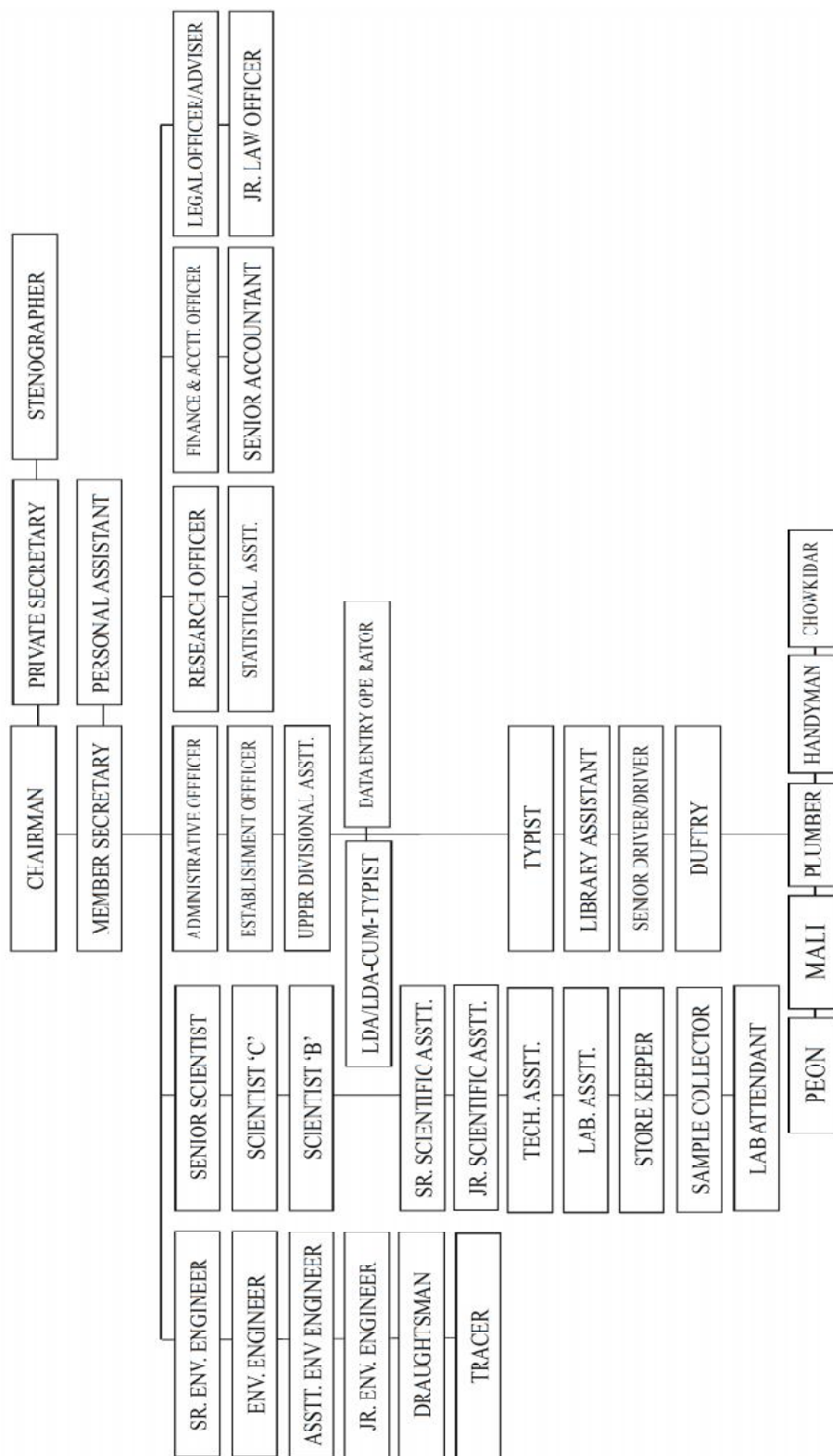
The Receipts and Expenditures of the Board for the financial year 2008-2009 is shown in the table below:

| Receipts and Payments Account for the year ended March 31, 2009 |             |                    |  |                              |                    |
|---|-------------|--------------------|--|------------------------------|--------------------|
| Receipts  |             | Current            |  | Payments                     |                    |
|   |             | Year               |  |                              |                    |
|   |             |                    |  |                              | Current            |
|   |             |                    |  |                              | Year               |
| <b>Opening Balance :</b>  |             |                    |  | <b>Fixed Assets</b>          | 1345120.00         |
| Cash in hand  | 11348.26    |                    |  |                              |                    |
|   |             |                    |  | <b>Other Assets :</b>        |                    |
| Cash at Bank :  | 41582671.47 | 41594019.73        |  | Scientific Instrument and    |                    |
|   |             |                    |  | Office Appliances            | 2050948.00         |
|   |             |                    |  | Tools and Plants             | ---                |
|   |             |                    |  |                              | 2050948.00         |
| <b>Grant Received from :</b>                                    |             |                    |  |                              |                    |
| Ministry of Environment &                                       |             |                    |  | <b>Revenue Expenditure :</b> |                    |
| Forests, Govt. of India   | 25323.00    |                    |  | Administration :             |                    |
| Department of Public  |             |                    |  | Pay & Allowances to          |                    |
| Health &  |             |                    |  | Officers & Staff             | 11255308.00        |
| Engineering   | 10490000.00 |                    |  | Contribution to P.F.         | 654226.00          |
| Central Pollution Control                                       |             |                    |  | Contingent Expenditure       | 2508994.00         |
| Board, Govt. of India   | 4622628.00  | 15137951.00        |  |                              | 14418528.00        |
| <b>Grant in aid received</b>                                    |             |                    |  | Board Revenue                | 44807.00           |
| <b>from :</b>   |             |                    |  | Running and                  |                    |
| Other Agencies  |             | ---                |  | Maintenance of Vehicle       | 153767.00          |
|   |             |                    |  | Repairs and                  |                    |
|   |             |                    |  | Maintenance                  | 115874.00          |
| Fees  |             | 9409364.00         |  | Advances                     | 310729.00          |
| Interest on Investments   |             | 3877174.55         |  | Deposits                     | 545857.00          |
| Miscellaneous Receipts  |             | 1836820.50         |  | Other Expenditure            | 848962.00          |
|   |             |                    |  |                              |                    |
| Miscellaneous Advances  |             | 406697.00          |  | Water Cess                   | 67447.00           |
| Deposits  |             | 690809.00          |  | Professional Tax             | 55750.00           |
|   |             |                    |  | Income Tax                   | 39860.00           |
| <b>Staff Recoveries /</b>                                       |             |                    |  | Sales tax deducted at        |                    |
| <b>Deductions :</b>   |             |                    |  | Source                       | 72887.00           |
| Professional Tax  |             | 55750.00           |  |                              |                    |
| Income Tax  |             | 27776.00           |  |                              |                    |
| EPF   |             | 520094.00          |  | <b>Closing Balance :</b>     |                    |
| GPF   |             | 144000.00          |  | Cash in hand                 | 21748.26           |
|   |             |                    |  |                              |                    |
| <b>Other Recoveries :</b>                                       |             |                    |  | Cash at Bank :               | 53795403.52        |
| Forest Royalty  |             | 1376.00            |  |                              | 53817151.78        |
| Sales tax deducted at   |             |                    |  |                              | 53817151.78        |
| Source  |             | 185856.00          |  |                              |                    |
|   |             |                    |  |                              |                    |
| <b>Total Rupees</b>   |             | <b>73887687.78</b> |  |                              | <b>73887687.78</b> |

## STAFF POSITION OF THE MEGHALAYA STATE POLLUTION CONTROL BOARD UPTO MARCH 2009

| SL NO                        | NAME OF THE POST                | SANCTIONED STRENGTH | WORKING STRENGTH | VACANCY   |
|------------------------------|---------------------------------|---------------------|------------------|-----------|
| <b>ADMINISTRATIVE BRANCH</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.                           | STENOGRAPHER GD - II            | 1                   | 1                | -         |
| 6.                           | STATISTICAL ASSTT.              | 1                   | -                | 1         |
| 7.                           | UPPER DIVISIONAL ASSTT.         | 4                   | 4                | -         |
| 8.                           | P.A TO MEMBER SECRETARY         | 1                   | -                | 1         |
| 9.                           | L.D.ASSTT./ LDA-CUM-TYPIST      | 12                  | 2                | 10        |
| 10.                          | DATA ENTRY OPERATOR             | 2                   | 1                | 1         |
| 11.                          | TYPIST                          | 4                   | 1                | 3         |
| 12.                          | LIBRARY ASSTT.                  | 1                   | -                | 1         |
| 13.                          | SENIOR DRIVER/ DRIVER           | 6                   | 5                | 1         |
| 14.                          | PEON                            | 12                  | 11               | 1         |
| 15.                          | MALI                            | 1                   | -                | 1         |
| 16.                          | PLUMBER                         | 1                   | 1                | -         |
| 17.                          | DUFTRY                          | 1                   | 1                | -         |
| 18.                          | HANDY MAN                       | 1                   | -                | 1         |
| 19.                          | CHOWKIDAR                       | 3                   | 2                | 1         |
| <b>LAW</b>                   |                                 |                     |                  |           |
| 1.                           | LEGAL OFFICER/ADVISER           | 1                   | -                | 1         |
| 2.                           | JUNIOR LAW OFFICER              | 1                   | 1                | -         |
| <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                   | 2                | 3         |
| 4.                           | JUNIOR ENVIRONMENTAL ENGINEER   | 1                   | 1                | -         |
| 5.                           | SENIOR DRAFTSMAN                | 1                   | -                | 1         |
| 6.                           | TRACER                          | 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                   | 5                | 2         |
| 6.                           | JUNIOR LABORATORY ASSTT.        | 4                   | 1                | 3         |
| 7.                           | TECHNICAL ASSTT.                | 2                   | 1                | 1         |
| 8.                           | STORE KEEPER                    | 1                   | 1                | -         |
| 9.                           | FIELD ATTENDANT                 | 1                   | -                | 1         |
| 10.                          | SAMPLE COLLECTOR                | 5                   | 5                | -         |
| 11.                          | LABORATORY ATTENDANT            | 2                   | 2                | -         |
| <b>TOTAL</b>                 |                                 | <b>103</b>          | <b>59</b>        | <b>44</b> |

-2009



**LIST OF BOARD MEMBERS**

- |  |                   |
|--|-------------------|
| 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 <i>or</i> his nominee                    | : Member |
| 4. The Director of Industries, Meghalaya, Shillong <i>or</i> his nominee                                  | : Member |
| 5. The Director of Health Services (Research, etc), Meghalaya, Shillong <i>or</i> his nominee             | : Member |
| 6. The Director, Urban affairs, Meghalaya, Shillong <i>or</i> his nominee                                 | : Member |
| 7. Chief Conservator of Forests (Social Forestry & Environment) Meghalaya, Shillong <i>or</i> his nominee | : Member |

**MEMBERS FROM LOCAL AUTHORITIES**

- |  |          |
|--|----------|
| 8. The Chief Executive Member, Khasi Hills Autonomous District Council <i>or</i> his nominee   | : Member |
| 9. The Chief Executive Member, Jaintia Hills Autonomous District Council <i>or</i> his nominee | : Member |
| 10. The Chief Executive Member, Garo Hills Autonomous District Council <i>or</i> his nominee   | : Member |
| 11. The Chairman, Shillong Municipal Board <i>or</i> his nominee                               | : Member |
| 12. The Chairman, Tura Municipal Board <i>or</i> his nominee                                   | : Member |

**REPRESENTATIVES FROM CORPORATIONS**

- |   |          |
|---|----------|
| 13. The Managing Director, Meghalaya Industrial Development Corporation <i>or</i> his nominee | : Member |
| 14. The Managing Director, Mineral Development Corporation, Meghalaya <i>or</i> 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 |



| LIST OF INDUSTRIES THAT APPLIED FOR CONSENT TO ESTABLISH DURING 01.04.2008 TO 31.03.2009 |                             |            |                       |   |
|--|-----------------------------|------------|-----------------------|---|
| Sl. No.  | Name of Unit/Industry       | Date       | Type of Unit/Industry | Location                                |
| 1  | HOTEL POLO TOWERS PVT. LTD. | 17.05.2008 | Hotel                 | Polo Ground, Shillong, East Khasi Hills |
| 3  | DISHNET WIRELESS LTD        | 12.06.2008 | D.G. Set              | Matchakolgre, West Garo Hills, Tura     |
| 4  | MEGHA FOODS                 |            |                       |   |
| 5  | K. LAPANG CRUSHER           | 22.04.2008 | Stone Crusher         | New Jirang, Ri-Bhoi                     |
| 6  | DIRODA LAPANG CRUSHER       | 22.04.2008 | Stone Crusher         | New Jirang, Ri-Bhoi                     |
| 7  | VOLGA MISTAN BHANDAR        | 06.05.2008 | Restaurant            | Laitumkrah Bazaar, East Khasi Hills     |
| 8  | PRATIMA HOTEL               | 06.05.2008 | Hotel                 | Laitumkrah Bazaar, East Khasi Hills     |
| 9  | DISHNET WIRELESS LTD        | 07.05.2008 | DG Set                | (East Khasi Hills)-Nongpung.            |
| 10   | YOUN SEN RESTAURANT         | 22.05.2008 | Restaurant            | Police Bazaar, Kyndai Lad, Shillong.    |
| 11   | SHARMA TEA STALL            | 22.05.2008 | Restaurant            | Umsohsun Road, Shillong                 |
| 12   | SHARMA BHOJANALAYA,         | 22.05.2008 | Restaurant            | Umsohsun Road, Shillong                 |
| 13   | STASH RESTAURANT            | 29.05.2008 | Restaurant            | Motphran, Shillong                      |
| 14   | P. NONGRUM & SON            | 30.05.2008 | Sawmill               | Smit, East Khasi Hills                  |
| 15   | GREAT WALL RESTAURANT       | 05.06.2008 | Restaurant            | Thana Road, Shillong, East Khasi Hills  |

|    |  |            |                          |  |
|----|--|------------|--------------------------|--|
| 16 | <b>S.S. LAKHMI CRUSHER</b>                   | 09.06.2008 | Stone Crusher            | New Amkrem, Jirang,<br>Ri-Bhoi                     |
| 17 | <b>MEGHALAYA FOREST PRODUCTS</b>             | 13.06.2008 | Saw-cum-veneer<br>Mill   | Umiam Industrial<br>Estate, Ribhoi District        |
| 18 | <b>SOHPHOH STONE CRUSHER</b>                 | 09.06.2008 | Stone crushing<br>Unit   | Puriang, East Khasi<br>Hills District              |
| 19 | <b>RICE BOWL RESTAURANT</b>                  | 12.06.2008 | Restaurant               | Police Bazaar, Shillong                            |
| 20 | <b>ANNAPURNA RESTAURANT</b>                  | 13.06.2008 | Restaurant               | Police<br>Bazar, Shillong, East<br>Khasi Hills     |
| 21 | <b>ANUPAM RESTAURANT</b>                     | 13.06.2008 | Restaurant               | Police<br>Bazar, Shillong, East<br>Khasi Hills     |
| 22 | <b>GREEN VALLIEY INDUSTRIES PVT.<br/>LTD</b> | 18.06.2008 | Cement Plant             | Nongsning, Chieruphi,<br>Khliehriat, Jaintia Hills |
| 23 | <b>GREEN VALLIEY INDUSTRIES PVT.<br/>LTD</b> | 12.03.2009 | Power Plant              | Nongsning, Chieruphi,<br>Khliehriat, Jaintia Hills |
| 24 | <b>PARAS IRON &amp; STEEL CO.</b>            | 24.06.2008 | Mild Steel Ingot<br>Unit | EPIP, Rajabagan, Byrnih<br>at, Ribhoi District     |
| 25 | <b>PARAS IRON &amp; STEEL CO</b>             | 01.07.2008 | Re-Rolling Mill<br>Unit  | EPIP, Rajabagan, Byrnih<br>at, Ribhoi District     |
| 26 | <b>SOHPDANG SAW-CUM-VENEER<br/>MILL</b>      | 18.06.2008 | Wood Based Unit          | Umiam Industrial<br>Estate, Ribhoi District        |
| 27 | <b>NEW GHANCHING RESTAURANT</b>              | 03.07.2008 | Restaurant               | Iewduh, Shillong, East<br>Khasi Hills              |
| 28 | <b>TATA TELE SERVICES LTD (DG-II)</b>        | 24.06.2008 | DG Set                   | Keating Road, East<br>Khasi Hills                  |
| 29 | <b>TATA TELE SERVICES LTD (DG-I)</b>         | 24.06.2008 | DG Set                   | Keating Road, East<br>Khasi Hills                  |
| 30 | <b>VAISHALI RESTAURANT</b>                   | 18.07.2008 | Restaurant               | Police<br>Bazar, Shillong, East<br>Khasi Hills     |
| 31 | <b>RADHUNEE RICE SHOP</b>                    | 24.07.2008 | Restaurant               | Police<br>Bazar, Shillong, East<br>Khasi Hills     |
| 32 | <b>AMM CEE CAFÉ</b>                          | 24.07.2008 | Restaurant               | Jailroad, Shillong, East<br>Khasi Hills            |

|    |                                    |            |                                       |  |
|----|------------------------------------|------------|---------------------------------------|--|
| 33 | <b>MAA KALI HOTEL</b>              | 23.07.2008 | Restaurant                            | Police Bazar, Shillong, East Khasi Hills   |
| 34 | <b>Garden Hotel</b>                | 18.07.2008 | Lodge                                 | Police Bazar, Shillong, East Khasi Hills   |
| 35 | <b>Hotel Godwin</b>                | 18.07.2008 | Lodge                                 | Police Bazar, Shillong, East Khasi Hills   |
| 36 | <b>VODAFONE SPACETEL LTD.-</b>     | 07.08.2008 | Diesel Generator                      | RI-BHOI DIST-A (07 Sites):- Pahamsyiem (Nongpoh), Umsning (Patarim), Barapani, Niangbarilum, Erpakon (Nongpoh), 20th Mile (GS Road), Umtrew. |
| 37 | <b>RKB Cements (P) Ltd</b>         | 22.07.2008 | DG Set                                | Umiam Industrial Estate, Ribhoi District   |
| 38 | <b>DEJIRA BRICKS INDUSTRIES</b>    | 14.07.2008 | Brick Kiln                            | Dorambok, Mukdangra, West Garo Hills   |
| 39 | <b>P. PATOR CRUSHER</b>            | 28.08.2008 | Stone crushing Unit                   | Patharkuchi, Pilangkata, Ribhoi District   |
| 40 | <b>TRANSCEND INFRASTRUCTURE</b>    | 27.08.2008 | D.G. Set                              | Ri-Bhoi District- Pahamsyiem   |
| 41 | <b>ITD CEMENTATION INDIA LTD</b>   | 10.09.2008 | Stone crushing Unit                   | vill- Thamar, Leshka, Jaintia Hills District. (Crusher Plant)  |
| 42 | <b>J.K. INDUSTRIES (MEGHALAYA)</b> | 09.09.2008 | Perfumery Products                    | Them Marwet, Khanapara, Ribhoi District  |
| 43 | <b>ITD CEMENTATION INDIA LTD</b>   | 09.09.2008 | DG SET                                | vill- Thamar, Leshka, Jaintia Hills District   |
| 44 | <b>ITD CEMENTATION INDIA LTD</b>   | 10.09.2008 | DG SET                                | vill- Thamar, Leshka, Jaintia Hills District (DG SET-B)  |
| 45 | <b>BANALARI WORLD CARS</b>         | 10.09.2008 | Automobile Repairing & Servicing Unit | , Mawlai Nongkwar, Shillong, East Khasi Hills District.  |

|    |   |            |                     |  |
|----|---|------------|---------------------|--|
| 46 | <b>WEST GARO HILLS TEA FARMERS FEDERATION</b> | 15.09.2008 | Tea Factory         | Rongram, West Garo Hills   |
| 47 | <b>RNB CEMENTS (P) LTD</b>                    | 12.09.2008 | Captive Power Plant | Umiam Industrial Estate, Ribhoi District   |
| 48 | <b>RELIANCE INFRATEL LTD</b>                  | 09.09.2008 | DG Set              | East Garo Hills- (a) Chibok-1 (b) Mendipathar-1 (c) Rongjeng-1 (d) Bajengdoba (e) Gokul Mendal (f) Dianadubi   |
| 49 | <b>KLISTINA ENTERPRISE</b>                    | 24.09.2008 | Stone crushing Unit | Umkohseng, Kynshi, West Khasi Hills  |
| 50 | <b>RELIANCE INFRATEL LTD</b>                  | 09.09.2008 | DG Set              | East Khasi Hills-A:- (a) NEIGRIHMS-Mawlynrei (b) Police Bazar-Pegasus (c) Lumjingsuk-Madanrting (d) Upland Road-Laitumkhrah (e) Lower Lumparing (f) Mawlai Nonglum (g) Iewduh-P. Jasasaria (h) Rynjah Pdengshnong (i) Mawlai Kynton Massar (j) Upper Mawprem-Mylliem Cottage |
| 51 | <b>RELIANCE INFRATEL LTD</b>                  | 09.09.2008 | Diesel Generator    | East Khasi Hills -B:- Balat, Mawsynram, Puriang, Laitkynsew, Pynursla, Ladsophriah (Lad Mawphlang), Massar (Langkyrdem), Pommura, Nianglong (Nongshken), Mawkathein (Smit), Shella.  |

|    |                              |            |                  |  |
|----|------------------------------|------------|------------------|--|
| 52 | <b>RELIANCE INFRATEL LTD</b> | 09.09.2008 | DG Set           | East Khasi Hills-C:-<br>Langkyrdem, Lumpulit<br>(Laitlyngkot), Dangar,<br>Oakland (Shillong),<br>Mawlai SyllaiKariah,<br>Bishnupur, Umlyngka,<br>Polo Hills, Jaiaw<br>Langsning, Dum Dum<br>(Nongthymmai).   |
| 53 | <b>RELIANCE INFRATEL LTD</b> | 09.09.2008 | DG Set           | East Khasi Hills-D:-(a)<br>Lummawkiang-<br>Mawpat (b) Laitkor<br>Peak (c) Mission<br>Compound-<br>Mawryngkneng (d)<br>Sharwan Tea Estate-<br>Sohryngkham (e)<br>Valley View School-<br>Pynthorbah (f)<br>Kharmalki-Malki (g)<br>Jaiaw Pdeng (h)<br>Rilbong (i)<br>Mawsmi-<br>Cherrapunjee<br>(j) Lummawrie                     |
| 54 | <b>RELIANCE INFRATEL LTD</b> | 09.09.2008 | Diesel Generator | West Khasi Hills - (a)<br>Laitdom-Mawlieh-<br>Mairang (b)<br>Lumsohkhur-Mairang<br>(c) Nongpyndeng-<br>Nongstoin (d) Kynshi-<br>Mairang (e)<br>Lumawshoh-Myriaw-<br>Mairang (f)<br>Nongkhaw-Mairang<br>(g) Marwang-Rambrai<br>(h) Riango (i) Sohiong<br>(j) Mawit (k)<br>Challang-Near Kynshi<br>Khlieh lum<br>Mawsmi (Mairang |
| 55 | <b>MAMPY HOTEL</b>           | 16.10.2008 | Hotel            | Polo,Shillong East<br>Khasi Hills  |
| 56 | <b>HOTEL LOTUS</b>           | 03.10.2008 | Hotel            | Police<br>Bazar,Shillong,East<br>Khasi Hills   |

|    |  |            |                               |   |
|----|--|------------|-------------------------------|---|
| 57 | <b>TRANSCEND WIRELESS INFRASTRUCTURE</b> | 17.10.2008 | DG SET                        | Mawpat,NEHU,East Khasi Hills  |
| 58 | <b>XCEL TELECOM PVT. LTD-</b>            | 16.10.2008 | Diesel Generator              | JAINTIA HILLS - Khimmusniang (Jowai), Salini Colony (Jowai), Lumpyrthuh (Mihmyntdu), Dongmihnsngi (Ladthalaboh)   |
| 59 | <b>XCEL TELECOM PVT. LTD</b>             | 16.10.2008 | DG Set                        | EAST KHASI HILLS - Mawkajem, Pongtung, Nongmadan Mawpran, Laitlyngkot, Lyngkyrdem, Bir Sohlung Pomshutia, Rngain, Laban(Shillong), Laitkynsew-Laitmawiong (Laitlyngkot), Phlangdkhi(Pynursla) |
| 60 | <b>XCEL TELECOM PVT. LTD</b>             | 16.10.2008 | DG Set                        | WEST GARO HILLS - Chiokgre(cancelled),Th apnaldal   |
| 61 | <b>RELIANCE INFRATEL LTD</b>             | 23.09.2008 | DG Set                        | SOUTH GARO HILLS - Baghmara,Asigiri(Dalu )  |
| 62 | <b>COSMOS CEMENTS LTD,</b>               | 20.10.2008 | Cement Plant                  | Salang,Sutnga,Jaintia Hills   |
| 63 | <b>PHRANSIS SWER COAL MINE</b>           | 27.10.2008 | Coal Mining                   | Madan Mutha,Rymbai Dalloiship,Jaintia Hills District  |
| 64 | <b>PHRANSIS SWER COAL MINE</b>           | 27.10.2008 | Coal Mining                   | Lum Bangla,Sutnga Elaka,Jaintia Hills District.   |
| 65 | <b>HOTEL SHUBHAM</b>                     | 03.11.2008 | Restaurant                    | Police Bazar,Shillong,East Khasi Hills  |
| 66 | <b>SUBHUJAN RESTAURANT</b>               | 03.11.2008 | Restaurant                    | Police Bazar,Shillong,East Khasi Hills  |
| 67 | <b>SUN PAPER INDUSTRIES</b>              | 24.10.2008 | Craft Paper Manufacuring Unit | Amjok,Byrnihat,Ribhoi District  |

|    |   |            |                |  |
|----|---|------------|----------------|--|
| 68 | <b>Bharti Infratel Ltd</b>                              | 15.10.2008 | D.G. Set       | Williamnagar, East Garo Hills - Samanda Megapee, Kosichora.  |
| 69 | <b>BHARTI INFRATEL LTD</b>                              | 15.10.2008 | D.G. Sets      | Umran - Niangbyrnai, Pahamri-oh Lum Mawlein, Mawser-Zero Point, Kyrdemkulai-Zero Point.                                      |
| 70 | <b>BHARTI INFRATEL LTD</b>                              | 16.10.2008 | D.G. Sets      | Umroi, Ri-Bhoi District  |
| 71 | <b>BHARTI INFRATEL LTD</b>                              | 15.10.2008 | D.G. Sets      | Mawlengren, Mawrok Porsohsat, Nongkasen Village  |
| 72 | <b>BHARTI INFRATEL LTD</b>                              | 16.10.2008 | D.G. Sets      | Mawten, Maharam Syiemship  |
| 73 | <b>BHARTI INFRATEL LTD</b>                              | 15.10.2008 | D.G. Sets      | East Khasi Hills, Sohryngkham, Myllem, Mawlyngad, Nongrimmaw-Laitumkhrah, Thynroit-Khyrim, Jongksha, Pynursla (Raid Shabong) |
| 74 | <b>TOYESA-DE-CRUISE -</b>                               | 12.11.2008 | House Boats    | Umiam, Ribhoi District   |
| 75 | <b>Directorate of AH &amp; Vety, Govt. of Meghalaya</b> | 28.11.2008 | Modern Abattor | Shillong, East Khasi Hills   |
| 76 | <b>Lite Bites Fast Food</b>                             | 27.11.2008 | Fast Food      | Raja Ram Mohan Roy Complex, Keating Road, Shillong. East Khasi hills   |
| 77 | <b>Daman Restaurant</b>                                 | 27.11.2008 | Restaurant     | Rapsang Complex, Keating Road, Shillong  |

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| 78 | <b>SUPREME MEGHALAYA CEMENT PVT. LTD.</b>                       | 10.12.2008 | Cement making unit        | Mawser, Zero Point, Ribhoi District  |
| 79 | <b>CHIJINGJANG NATURAL RESOURCE MANAGEMENT GROUP</b>            | 01.12.2008 | Aloevera Processing Unit  | Ganol Sangma, West Garo Hills  |
| 80 | <b>UTTAM SEN AUTO ELECTRICALS &amp; BATTERY REPAIRING WORKS</b> | 17.12.2008 | Auto Electrical Repairing | Keating Road, Shillong, East Khasi Hills   |
| 81 | <b>XCEL TELECOM PVT. LTD,</b>                                   | 15.12.2008 | Diesel Generator          | Resubelpara, Dima- East Garo Hills   |
| 82 | <b>ATC India Tower Corporation PVT. LTD</b>                     | 15.12.2008 | D.G. Set                  | Jaintia Hills-Wapung Skur  |
| 83 | <b>RELIANCE INFRATEL LTD</b>                                    | 09.09.2008 | DG Set                    | West Garo Hills:- Damra (Goalpara), Bongsidua (Phulbari), Garobadha, Aranghagittam (Mahendraganj), Borogobal (Trikillia), Bogadol (Hallaidonga), Kaimbatapara (Chibanang-Phulbari), Robongare (Balachanda), Doldengre, Damalgre. |
| 84 | <b>RELIANCE INFRATEL LTD</b>                                    | 09.09.2008 | DG Set                    | Ribhoi District-A :- Nongpoh(Market), Umiam, Umsning (Lumumpih), Krem Monbhut (Umran Dairy), Iewmawlong (Nongpoh), Jorabad, Niangbarilum, Shangbangla, Nongsder (Umiam), Borhuin (Byrnihat), Nongpoh (Sweetly Colony).           |
| 85 | <b>RELIANCE INFRATEL LTD</b>                                    | 09.09.2008 | DG Set                    | Jaintia Hills District-A:-Skhen Synriah (Rymbai), Phra Mer (Jowai), Khlieh Dawki (Darrang), Tluh (Sutang), Amlarem, Lumshlur Mookhap (Mookaiaw), Mustem, Nartiang, Sutnga, Lum Momorai (Raliang)                                 |



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| 86 | <b>RELIANCE INFRATEL LTD</b>                 | 09.09.2008 | DG Set                    | Jaintia Hills District-B:-Khliehriat, Kyndonsoo (Wapung Skur), Mooralong (Jowai), Chhillangraj (Jowai), Mynthong (Jowai), Dulong (Jowai), Mission Compund (Jowai), Dkhiah (West Khliehriat), Diengsynrum (Mendihati), Lumshnong (Khliehriat), Datsympian (Ladrymbai). |
| 87 | <b>RELIANCE INFRATEL LTD</b>                 | 09.09.2008 | DG Set                    | Ribhoi District-B:- Umsning, Lumdaithla (Bhoilymbong), Umden Nongtluh (Nongpoh), Patharkhmah, Nongladew (Nongpoh), Umdihar, Nohkrah (Nongpoh)   |
| 88 | <b>RELIANCE INFRATEL LTD</b>                 | 09.09.2008 | DG Set                    | Jaintia Hills District-C:-Ratachera (Khliehriat), Shangpung, Sohkhah (Dawki), Sohmynting (Jowai), Dongiew (Umkiang), Lumkuliang (Khliehriat), Umtyra(Khliehriat), Tuber (Ladrymbai), Pomlarein (Skhenpyrsit), Syndai (Amlarem), Nongryngkoh, Jowai.                   |
| 89 | <b>SILK ROUTE HOTEL AND RESORT PVT. LTD.</b> | 25.03.2009 | Hotel                     | Thana Road, Shillong East Khasi Hills   |
| 90 | <b>ATM CASHEWNUT PROCESSING INDUSTRY</b>     | 22.12.2008 | Cashewnut Processing Unit | Shymding Phulbari, West Garo Hills  |

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| 91  | <b>AMBOR NONGDHAR RESTAURANT</b>             | 05.01.2009 | Restuarant                               | Polo, Shillong, East Khasi Hills  |
| 92  | <b>ARENGH BRICKS MANUFACTURING</b>           | 19.12.2008 | Brick Kiln                               | Bamil Area, Babupara, East Garo Hills   |
| 93  | <b>PIONEER BAR &amp; TUBES (P) Ltd</b>       | 02.01.2009 | Manufacturing of Skelp and Tubes         | Upper Balian, Umtru Road, Byrnihat  |
| 94  | <b>RAHUL 'S RESTAURANT</b>                   | 27.01.2009 | Restaurant                               | MTC Building, Police bazar, East Khasi Hills Meghalaya  |
| 95  | <b>SEW INFRASTRUCTURE LTD-D.G.(500 KvA)</b>  | 23.02.2009 | Construction Project                     | Pdengshakhap/Leshka Dam, Pdengshakhap/Thamal, Jaintia Hills District  |
| 96  | <b>SEW INFRASTRUCTURE LTD-D.G.(200 KvA),</b> | 23.02.2009 | D.G Set                                  | MLHEP, Jaintia Hills District   |
| 97  | <b>SEW INFRASTRUCTURE LTD</b>                | 23.02.2009 | Stone Crushing Unit                      | MLHEP, Jaintia Hills District   |
| 98  | <b>KHONGLAH LIME INDUSTRY</b>                | 12.02.2009 | Lime Kiln                                | Lum wah Mawria, Pynursla, East Khasi Hills  |
| 99  | <b>SEW INFRASTRUCTURE LTD</b>                | 23.02.2009 | Stone Crushing Unit                      | MLHEP, Jaintia Hills District   |
| 100 | <b>BHARTI INFRATEL LIMITED</b>               | 05.01.2009 | DG Set                                   | West Garo Hills:- Kama Dumitdikre, Metchakolgre, Tura Fancy Valley, Upper Chanmari, Teteng Aja, Upper Chandmari, Lower Chandmari. |
| 101 | <b>SEW INFRASTRUCTURE LTD</b>                | 23.02.2009 | Batching Plant (150m <sup>3</sup> /hour) | MLHEP, Jaintia Hills District   |
| 102 | <b>SEW INFRASTRUCTURE LTD.-</b>              | 23.02.2009 | Batching Plant (30m <sup>3</sup> /hour)  | MLHEP, Jaintia Hills District   |

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| 103 | <b>EMAAR MGF LAND LIMITED<br/>(Windermere Estate)</b> | 20.02.2009                                | Housing<br>Complex<br>Infrastructure<br>Project | Umpling, East Khasi<br>Hills   |
| 104 | <b>KHANAPARA ASSOCIATE</b>                            | 05.03.2009                                | Stone Crusher<br>and Sand<br>Washing            | Killing, Ri-Bhoi<br>District   |
| 105 | <b>KEC INTERNATIONAL LTD,</b>                         | 04.03.2009,<br>06.03.2009 &<br>16.03.2009 | DG Set  | East Khasi Hills:<br>Rynky, Umniuh Tmar,<br>Jatap, Nongsawing,<br>Bholaganj, Nongwar,<br>Shella Bazar,<br>Mawiong, Jongksha,<br>Mawsadang, Balat,<br>Wahkdait,<br>Mawkynrew, Nohron. |
| 106 | <b>KEC INTERNATIONAL LTD</b>                          | 04.03.2009 &<br>06.03.2009                | D.G Set   | West Khasi Hills-A :<br>Mawphaniew, Kynshi,<br>Nongkrem (West Khasi<br>Hills), Rikhen,<br>Rangthong, Kynrud,<br>Marhillong, Nongum   |
| 107 | <b>MEGHALAYA INFRATECH PVT.<br/>LTD</b>               | 16.03.2009                                | Hotel   | Khanapara, Ribhoi<br>District  |
| 108 | <b>SANGRIANG MINING ENTERPRISE</b>                    | 19.03.2009                                | Sillimanites<br>Mining                          | Langumshing,<br>Nongstoin, West Khasi<br>Hills   |
| 109 | <b>SILK ROUTE HOTEL AND RESORT<br/>PVT. LTD.</b>      | 25.03.2009                                | Hotel   | Keating Road,<br>Shillong, East Khasi<br>Hills   |
| 110 | <b>HOTEL ANURADHA</b>                                 | 23.03.2009                                | Hotel   | Thana Road, Shillong<br>East Khasi Hills   |
| 111 | <b>SERGONG RESTAURANT</b>                             | 16.12.2008                                | Restuarant                                      | Polo, Shillong, East<br>Khasi Hills  |
| 112 | <b>KEC INTERNATIONAL LTD</b>                          | 06.03.2009                                | D.G. Set  | Ribhoi District :<br>Mawrong, Mawtneng,<br>Umdohkha, Umrit,<br>Pilangkata, Umdu,<br>Umtyrnga, Zero Point,<br>Klew, Mawphru,<br>Warmawsaw.  |

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| 113 | <b>KEC INTERNATIONAL LTD.</b>                 | 16.03.2009 | D.G. Set     | WEST KHASI HILLS-B :- Umdang, Marskuin, Kamphaduli, Domjarian, Ngunraw, Ranikor, Tiehnongbah, Mawkyllei, Borsora   |
| 114 | <b>KEC INTERNATIONAL LTD.</b>                 | 04.03.2009 | DG Set       | Jaintia Hills-A: Mynkhnang, Umaldang, Khongshnong, Mukrot, Umthe, Barato, Saipung, Muktapur, Kyndongtuber, Mynsngat, Lumshyrmith, Wahiajer, Jalaphet (Sutnga), Sahsniang, Sonaroo. |
| 115 | <b>KEC INTERNATIONAL LTD.</b>                 | 16.03.2009 | DG Set       | JAINTIA HILLS-B:- Bakur, Laskein, Tamabil  |
| 116 | <b>Sesami Chemicals Pvt. Ltd. Ferro Alloy</b> | 27.02.2009 | Ferro Alloys | Barapani, Umiam Industrial Area, Ribhoi District   |

| LIST OF UNITS WHERE CONSENT TO ESTABLISH ISSUED DURING 01.04.2008 TO 31.03.2009 |                                 |                                     |  |   |
|---|---------------------------------|-------------------------------------|--|---|
| Sl. No.   | Name Of Unit/Industry           | Date Of Consent To Establish Issued | Type of Unit/Industry                            | Location  |
| 1.  | Broming Con-Aid, Narbong        | 11.04.2008                          | Water Proofing Compound And Cement Adhesive Unit | Narbong, Byrnihat, Ribhoi District  |
| 2.  | Hanny Fibre Pvt. Ltd.           | 30.04.2008                          | Copper,Tin & Alluminium                          | Epip Byrnihat,Ribhoi District   |
| 3.  | Anderson Tea Processing Factory | 30.04.2008                          | Tea Processing Unit                              | Umran Dairy,Ribhoi District,  |
| 4.  | Vinayak Biscuits Pvt Ltd.       | 30.04.2008                          | Biscuit Making Unit                              | 9 Mile, Baridua, Ribhoi District  |
| 5.  | Reliance Telecom Ltd.           | 26.05.2008                          | DG Set   | (07 Sites):1)Wadakgre<br>2)Dadengiri 3) Sellsella 4)<br>Kherapara 5)<br>Daramahanash 6) Amogre<br>7) Rangchugri                           |
| 6.  | Meghalaya Power Ltd.            | 29.05.2008                          | Power Plant( 8 Mw)                               | Lumshnong,Jaintia Hills District  |
| 7.  | Hi-Tech Concretes               | 02.06.2008                          | Concrete Pavers                                  | Mawlai Umjapung,East Khasi Hills  |
| 8.  | Saumya Mining (P) Ltd           | 18.06.2008                          | Limestone Mining                                 | Nongtra,Shella Bazar East Khasi Hills   |
| 9.  | Naz Restaurant                  | 18.06.2008                          | Restaurant                                       | Mawlonghat,Shilong,East Khasi Hills   |
| 10.   | O.L. Stone Crusher              | 25.06.2008                          | Stone Crushing Unit                              | Kreit Mawshaton,East Khasi Hills  |
| 11.   | Dishnet Wireless Ltd,           | 26.06.2008                          | D.G. Set   | West Khasi Hills- (A)<br>Rangblang (Nongbah) (B)<br>Jakrem (Mawkyrwat) (C)<br>Nonglait (Pariong) (D)<br>Mawten, Mawkyrwat (E)<br>Shahlang |
| 12.   | Trust Confectionary             | 26.06.2008                          | Bakery Unit                                      | Police Bazar,Shillong,East Khasi Hills  |

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|-----|----------------------------------|------------|---------------------------|---|
| 13. | Narayani Udyog                   | 04.07.2008 | Food Grain Processing     | Baridua, Ribhoi District  |
| 14. | Mawlong Saw-Cum-Veneer           | 08.07.2008 | Saw-Cum-Veneer Mill       | Umiam Indus trial Estate, Ribhoi District   |
| 15. | S.Lyngdoh Coal Mines             | 16.07.2008 | Coal Mining               | Wahthlu Myrsiang, Khliehriat, Jaintia Hills   |
| 16. | Assembly Hotel & Restaurant      | 16.07.2008 | Hotel And Restaurant      | Police Bazar, Shillong, East Khasi Hills  |
| 17. | The Urbane Resort                | 16.07.2008 | Resort                    | Lower Lachumiere, Shillong, East Khasi Hills  |
| 18. | B.Lyngdoh Coal Mines             | 21.07.2008 | Coal Mining               | Kmai Yurim, Khliehriat, Jaintia Hills   |
| 19. | Jres Lamare Stone Crusher,       | 30.07.2008 | Stone Crushing Unit       | Umsiang Maiong, Ribhoi District   |
| 20. | Premchand Lyngdoh Crusher        | 31.07.2008 | Stone Crushing Unit       | Rani Jirang Basti, Ribhoi District  |
| 21. | Jobar Mukhim Mechanical Workshop | 25.08.2008 | Automobile Servicing Unit | Mawlai, Shillong, East Khasi Hills  |
| 22. | Dishnet Wireless Ltd.            | 05.09.2008 | DG Set                    | East & South Garo Hills 03 Sites : (A) Khitmagre-Ravi (B) Bakrapar-Mendipathar (C) Rg Compound - Baghmara. (D) Jacksongram (Baghmara) |
| 23. | Dishnet Wireless Ltd.            | 10.09.2008 | DG Set                    | East Garo Hills (1) Nengkhra Village (2) Warimagre Village (3) Williamnagar (4) Dobu  |
| 24. | Dishnet Wireless Ltd             | 10.09.2008 | DG Set                    | (East Garo Hills)-Samanda Adap, Mikasindam.   |
| 25. | M.B.B. Bricks Factory            | 11.09.2008 | Bricks Making Unit        | Bolgangre, P.O. Mukdangra, West Garo Hills District   |
| 26. | S.M. Brick Factory               | 11.09.2008 | Bricks Making Unit        | Sonamite, West Garo Hills   |
| 27. | Kolpo Brick Factory              | 23.09.2008 | Red Bricks Making Unit    | Ariamile, Tura, West Garo Hills District  |
| 28. | J.S. Stone Crusher               | 30.09.2008 | Stone Crushing Unit       | Laitkroh, East Khasi Hills  |

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| 29. | Dishnet Wireless Ltd.                                    | 11.11.2008                             | DG Set                               | West Garo Hills-06 Sites:<br>(A) Tura (B) Killapara<br>(C) Duragre (D) Chanmari<br>(E) Thaprada-Jenjal<br>(F) Kherapara -Nokat-<br>(G) Nehru Ading<br>(Hawakhana)—(I)Harigoan<br>(Mukdangra) -<br>(J) Cherangre (Tura) |
| 30. | Dishnet Wireless Ltd.                                    | 18.11.2008                             | DG Set                               | Jaintia Hills-03 Sites:<br>(A) Pohshnong<br>(Shangpung) - (B) Sehkot<br>(Nongtalang)<br>(C) Khliehmuchut (Shangpung)<br>(D) Nongtalang -<br>(E) Mawtyrshiah (Raliang<br>Elaka) - (F) Raliang.                          |
| 31. | S.K. Automobile  | 18.11.2008                             | Automobile Workshop                  | Umtynium, Sohsynnam<br>Village, East Khasi Hills   |
| 32. | Pashum Wahkdait Fruits &<br>Vegetable Processing Society | 20.11.2008                             | Fruit & Vegetable<br>Processing Unit | Wahkdait, Via Dawki, E.K.H.  |
| 33. | Transcend Infrastructure Ltd                             | 28.11.2008                             | DG Set                               | Jaintia Hills- Khliehriat,<br>Khliehtyrshi, Ladrymbai,<br>Main Market Khliehriat,<br>Mawryngkneng, Mookyndur,<br>Stadium Jowai, Ummulung.  |
| 34. | Dishnet Wireless Ltd.                                    | 11.12.2008<br>11.12.2008<br>11.12.2008 | D.G. Set                             | East Khasi Hills : (A)<br>Mapankyrting, Saitsohpen -<br>Sohra (B) Dongshilling<br>(Mawsynram) -<br>(C) Khliehshnong (Sohra).   |
| 35. | Transcend Wireless Infrastructure                        | 15.12.2008                             | DG Set                               | Mawpat, Nehu, East Khasi<br>Hills  |
| 36. | Transcend Infrastructure Ltd                             | 30.01.2009                             | DG Set                               | East Garo Hills - Kusum<br>Kolgar, Warima Gre.   |
| 37. | Transcend Infrastructure Ltd                             | 03.02.2009                             | DG Set                               | East Khasi Hills-Barabazar,<br>Barapathar, Kharmalki,<br>Mawlai Motsyiar, Mawlai<br>Nongkwar, Nongmynsong,<br>Polo Hills, Rynjah.  |

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| 38. | Adhunik Cement Ltd.                    | 04.02.2009 | Limestone Mining<br>4.90 Ha | Mootang Village, Jaintia Hills District  |
| 39. | Vodafone Spacetel Ltd.                 | 05.02.2009 | DG Set                      | East Garo Hills(04 Sites):-<br>Gokul, Balongri, Chikothispo Mandal, Ronggopre, Rongdengre.                                     |
| 40. | Vodafone Spacetel Ltd                  | 05.02.2009 | DG Set                      | West Garo Hills (07 Sites):-<br>Arai Mile (Tura), Arogre, Hawakhana, Mori Para, Duragre, Jengal, Tura Main Market              |
| 41. | Vodafone Spacetel Ltd                  | 05.02.2009 | DG Set                      | West Garo Hills (07 Sites):-<br>Walbakgre, Aruragre (Rongram), Cherangre, Ringrey, Matchakolgre, Bejing Doba, Matchakolgre-Ii. |
| 42. | Xcel Telecom Pvt. Ltd                  | 16.02.2009 | DG Set                      | Jaintia Hills-Khimmusniang (Jowai), Salini Colony (Jowai), Lumpyrtuh (Mihmyntdu), Dongmihnsngi (Ladthalaboh)                   |
| 43. | West Garo Hills Tea Farmers Federation | 24.02.2009 | Tea Factory                 | Rongram, West Garo Hills   |
| 44. | Children's Hospital                    | 24.02.2009 | Hospital                    | Pohkse, Shillong, East Khasi Hills   |
| 45. | Dimru Food Industry,                   | 25.02.2009 | Fruit Processing            | Chandmari, West Garo Hills   |
| 46. | Atc India Tower Corporation Pvt. Ltd   | 26.02.2009 | D.G. Set                    | Jaintia Hills-Wapung Skur  |
| 47. | Greystone Strips Ltd.                  | 27.02.2009 | Steel Re-Rolling Mill       | Epip, Byrnihat, Ribhoi District  |
| 48. | A.H. & Vet. Deptt.                     | 27.02.2009 | Effluent Treatment Plant    | Mooralong, Jowai, Jaintia Hills District   |
| 49. | Dishnet Wireless Ltd., Shillong-       | 27.02.2009 | DG Set                      | West Khasi Hills<br>(1) Nongum<br>(2) Mawjekshem<br>(3) Nongkhlaw<br>(4) Mawphaniew<br>(5) Kynrut (6) Mawkhara                 |



|     |                                      |            |                              |   |
|-----|--------------------------------------|------------|------------------------------|---|
| 50. | B.R. Industries, Shillong            | 27.02.2009 | Cashewnut                    | Phulbari, West Garo Hills                           |
| 51. | P.R. Marak Brick Industry            | 03.07.2009 | Bricks Making Unit           | Gasurogoan, West Garo Hills                         |
| 52. | Dishnet Wireless Ltd                 | 18.03.2009 | DG Set                       | (West Garo Hills) - Upper Rongjeng.                 |
| 53. | Car Touch Servicing Station          | 21.03.2009 | Automobile Servicing Unit    | Urkaliar, Shillong, East Khasi Hills                |
| 54. | ATC India Tower Corporation Pvt. Ltd | 30.03.2009 | DG Set                       | Resubelpara, Dilma - East Garo Hills                |
| 55. | E.Lyngdoh Stone Crusher              | 16.07.2008 | Stone Crusher                | Wahsieh, Khliehriat, Jaintia Hills                  |
| 56. | Priyang Saw Cum Veneer Mills,        | 25.06.2009 | Saw-Cum-Veneer               | Khliehtyrshi, Jaintia Hills                         |
| 57. | Rhino Wires Pvt. Ltd.                | 24.08.2009 | Pvc Insulated Wires & Cables | Amjok, Byrnihat, Ribhoi District                    |
| 58. | Wanwar Lime                          | 20.03.2010 | Lime Kiln                    | Mawshamok, East Khasi Hills                         |
| 59. | P. Syrti Coal Mines,                 | 11.08.2009 | Coal Mine                    | Mu-Tyngkrong, Nongkhlieh Daloiship                  |
| 60. | Hamli Shadap Coal Mine,              | 25.06.2009 | Coal Mine                    | Lumdai Kpu, Sutnga Elaka, Jaintia Hills             |
| 61. | Min Langstang Coal Mines             | 11.08.2009 | Coal Mining                  | Narwan, Shangpung Elaka, Jaintia Hills              |
| 62. | Dejira Bricks Industries             | 30.01.2009 | Brick Kiln                   | Dorambok, Mukdangra, West Garo Hills                |
| 63. | Radhune Rice Shop                    | 11.09.2008 | Restaurant                   | Police Bazar, Shillong, East Khasi Hills            |
| 64. | Maa Kali Hotel                       | 11.11.2008 | Restaurant                   | Police Bazar, Shillong, East Khasi Hills            |
| 65. | Super Auto Care                      | 26.06.2008 | Automobile Workshop          | Lumsohphoh, Nongthymmai, Shillong, East Khasi Hills |
| 66. | Sohphoh Stone Crusher                | 26.02.2009 | Stone Crushing Unit          | Puriang, East Khasi Hills District                  |

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| 67. | Xcel Telecom Pvt. Ltd                             | 16.02.2009 | DG Set                                     | East Khasi Hills -<br>Mawkajem, Pongtung,<br>Nongmadan Mawpran,<br>Laitlyngkot, Lyngkyrdem,<br>Bir Sohlung Pomshutia,<br>Rngain, Laban(Shillong),<br>Laitkynsew-Laitmawiong<br>(Laitlyngkot), Phlangdkhi<br>(Pynursla) |
| 68. | Banalari World Cars                               | 23.02.2009 | Automobile Repairing<br>and Servicing Unit | Mawlai Nongkwar, Shillong,<br>East Khasi Hills District.   |
| 69. | Klistina Enterprise                               | 11.12.2008 | Stone Crushing Unit                        | Umkohseng, Kynshi,<br>West Khasi Hills   |
| 70. | Sun Paper Industries,                             | 27.02.2009 | Craft Paper<br>Manufacturing Unit          | Amjok, Byrnihat, Ribhoi<br>District  |
| 71. | Directorate Of Ah & Vety,<br>Govt. Of Meghalaya   | 02.12.2008 | Modern Abattor                             | Shillong, East Khasi Hills   |
| 72. | Chijingjang Natural<br>Resource Management Group, | 12.01.2009 | Aloevera Processing<br>Unit                | Ganol Sangma,<br>West Garo Hills   |
| 73. | Cosmos Cements Ltd,                               | 22.09.2009 | Cement Plant                               | Salang, Sutnga, Jaintia Hills  |
| 74. | Pioneer Bar & Tubes (P) Ltd                       | 17.02.2009 | Manufacturing Of<br>Skelp And Tubes        | Upper Balian, Umtru Road,<br>Byrnihat  |
| 75. | Khonglah Lime Industry                            | 18.03.2009 | Lime Kiln                                  | Lum Wah Mawria,<br>Pynursla, East Khasi Hills  |

| RENEWAL FOR CONSENT TO ESTABLISH ISSUED DURING 2008 - 2009 |                         |                 |                       |  |
|--|-------------------------|-----------------|-----------------------|--|
| Sl. No.  | Name of Unit/Industry   | Date of Renewal | Type of Unit/Industry | Location                               |
| 1  | Honsen Lyngdoh Crusher  | 27.11.2008      | Stone Crushing Unit   | Mawiongirim, East Khasi Hills District |
| 2  | Greenland Lakmi Crusher | 28.04.2008      | Stone Crushing Unit   | Puransukubari, Jirang, Ribhoi District |

### CONSENT TO OPERATE ISSUED DURING 2008 - 2009

| Sl. No. | Name of Unit/Industry                  | Date Of Consent To Operate | Type of Unit/ Industry       | Location   |
|---------|--|----------------------------|------------------------------|--|
| 1.      | Stone Crusher Unit (Ramthing Sangma)   | 25.04.2008                 | Stone Crushing Unit          | Tangoan, West Garo Hills   |
| 2.      | Pyrbot Motor Workshop                  | 17.04.2008                 | Automobile Workshop          | Lummawrie, Shillong, East Khasi Hills  |
| 3.      | Nongrum Motor Workshop                 | 28.04.2008                 | Automobile Workshop          | Lummawrie, Shillong, East Khasi Hills  |
| 4.      | Byrnihat Springs Ltd.                  | 17.04.2008                 | Railway Track Fitting        | Making Unit Amjok, Byrnihat, Ribhoi District   |
| 5.      | Jai Kamakhya Alloys Pvt. Ltd.          | 21.05.2008                 | Ferro Silicon                | Umtru Road, Byrnihat, Ribhoi District  |
| 6.      | Roy & Sharma Workshop                  | 25.06.2008                 | Automobile Workshop          | Keating Road, Shillong, East Khasi Hills   |
| 7.      | R.Kharpran Stone Crusher               | 28.11.2008                 | Stone Crushing Unit          | Mawlyngngad, East Khasi Hills District   |
| 8.      | M.Kharpran Stone Crusher               | 30.09.2008                 | Stone Crushing Unit          | Mawlyngngad, East Khasi Hills District   |
| 9.      | Shillong Ispat & Rolling Mill Pvt. Ltd | 27.02.2009                 | Re-Rolling Mill              | 13 <sup>th</sup> Mile Tamulkuchi, Ribhoi District  |
| 10.     | S.Kharkongor Stone Crusher.            | 30.09.2008                 | Stone Crushing Unit          | Wah Jaring, Mawlyngngad, East Khasi Hills  |
| 11.     | Dishnet Wireless Ltd                   | 07.08.2009                 | D.G. Set                     | West Khasi Hills (1) Nongum (2) Mawjekshem (3) Nongkhlaw (4) Mawphaniew (5) Kynrut (6) Mawkhara                            |
| 12.     | Rhino Wires Pvt. Ltd.                  | 10.12.2009                 | Pvc Insulated Wires & Cables | Amjok, Byrnihat, Ribhoi District   |
| 13.     | Dishnet Wireless Ltd,                  | 26.06.2008                 | D.G. Set                     | West Khasi Hills- (A) Rangblang (Nongbah) (B) Jakrem (Mawkyrwat) (C) Nonglait (Pariong) (D) Mawten, Mawkyrwat (E) Shahlang |

|     |   |            |                     |  |
|-----|---|------------|---------------------|--|
| 14. | Dishnet Wireless Ltd  | 10.09.2008 | D.G. Set            | Garo Hills- (A) Namchapra (Baghmara) (B) Rongram (West Garo Hills) (C) Nengsanggre (Williamnagar)  |
| 15. | Hotel Polo Towers Pvt. Ltd.                                 | 22.08.2008 | Hotel               | Polo Ground, Shillong  |
| 16. | Volga Mistan Bhandar,                                       | 18.06.2008 | Dairy               | Laitumkhrah Bazar, East Khasi Hills  |
| 17. | Pratima Hotel   | 18.06.2008 | Hotel               | Laitumkhrah Bazar, East Khasi Hills  |
| 18. | Youn Sen Restaurant   | 03.09.2008 | Restaurant          | Polica Bazar, Kyndai Lad, Shillong.  |
| 19. | Sharma Tea Stall,   | 25.06.2008 | Restaurant          | Umsohsun Road, Shillong  |
| 20. | Sharma Bhojanalaya  | 25.06.2008 | Restaurant          | Umsohsun Road, Shillong  |
| 21. | Stash Restaurant  | 08.07.2008 | Restaurant          | Motphran, Shillong   |
| 22. | Great Wall Restaurant,                                      | 08.07.2008 | Restaurant          | Thana Road, Shillong, East Khasi Hills   |
| 23. | Rice Bowl Restaurant  | 08.07.2008 | Restaurant          | Police Bazaar, Shillong  |
| 24. | Anupam Restaurant   | 08.07.2008 | Restaurant          | Police Bazar, Shillong, East Khasi Hills   |
| 25. | Annapurna Restaurant  | 08.07.2008 | Restaurant          | Police Bazar, Shillong, East Khasi Hills   |
| 26. | North East Indira Gandhi Regional Health & Medical Sciences | 08.08.2008 | DG Set              | Mawdiangdiang, Shillong-12, East Khasi Hills   |
| 27. | ITD Cementation India Ltd                                   | 19.03.2009 | Stone Crushing Unit | Vill-Thamar, Leshka, Jaintia Hills District. (Crusher Plant)   |
| 28. | New Ghanching Restaurant                                    | 19.08.2008 | Restaurant          | Iewduh, Shillong, East Khasi Hills   |
| 29. | Vodafone Spacetel Ltd.                                      | 31.03.2009 | Diesel Generator    | Ri-Bhoi Dist- Pahamsyiem (Nongpoh), Umsning (Patarim), Barapani, Niangbarilum, Erpakon (Nongpoh), 20 <sup>th</sup> Mile (Gs Road), Umtrew. |
| 30. | Garden Hotel, Quinton Road                                  | 18.08.2008 | Lodge               | Police Bazar, Shillong, East Khasi Hills   |
| 31. | Vaishali Restaurant,  | 22.08.2008 | Restaurant          | Police Bazar, Shillong, East Khasi Hills   |
| 32. | Hotel Godwin, G.S. Road                                     | 18.08.2008 | Lodge               | Police Bazar, Shillong, East Khasi Hills   |

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| 33. | ITD Cementation India Ltd              | 19.03.2009 | DG Set   | Vill-Thamar, Leshka, Jaintia Hills District  |
| 34. | ITD Cementation India Ltd Vill         | 19.03.2009 | DG Set   | Vill-Thamar, Leshka, Jaintia Hills District (Dg Set-B)   |
| 35. | Xcel Telecom Pvt. Ltd                  | 16.02.2009 | DG Set   | East Khasi Hills - Mawkajem, Pongtung, Nongmadan Mawpran, Laitlyngkot, Lyngkyrdem, Bir Sohlung Pomshutia, Rngain, Laban(Shillong), Laitkynsew-Laitmawiong (Laitlyngkot). |
| 36. | Mampy Hotel                            | 18.03.2009 | Hotel  | Polo, Shillong East Khasi Hills  |
| 37. | Hotel Lotus                            | 17.12.2008 | Hotel  | Police Bazar, Shillong, East Khasi Hills   |
| 38. | Hotel Shubham                          | 17.12.2008 | Restaurant                                       | Police Bazar, Shillong, East Khasi Hills   |
| 39. | Subhujan Restaurant                    | 27.01.2009 | Restaurant                                       | Police Bazar, Shillong, East Khasi Hills   |
| 40. | Lite Bites Fast Food                   | 18.03.2009 | Fast Food  | Raja Ram Mohan Roy Complex, Keating Road, Shillong.  |
| 41. | Daman Restaurant                       | 18.03.2009 | Restaurant                                       | Rapsang Complex, Keating Road, Shillong  |
| 42. | Jaintia Coke Pvt. Ltd.                 | 25.08.2008 | Mettallurgical Coke Unit                         | Nongsning, Khliehriat, Jaintia Hills   |
| 43. | Broming Con-Aid                        | 26.08.2008 | Water Proofing Compound And Cement Adhesive Unit | Narbong, Byrnihat, Ribhoi District   |
| 44. | Rahul 'S Restaurant                    | 23.03.2009 | Restaurant                                       | Mtc Building, Police Bazar, East Khasi Hills Meghalaya   |
| 45. | Sangma Stone Crushing Unit             | 03.02.2009 | Stone Crusher                                    | Samanda, Dolwagere, East Garo Hills  |
| 46. | Shillong Municipal Board               | 12.02.2009 | Sanitary Landfill                                | Riat Khwan Foresst, Mawlai, Shillong   |
| 47. | Sew Infrastructure Ltd-D.G. (500 Kva), | 19.03.2009 | Construction Project                             | Pdengshakhap/Leshka Dam, Pdengshakhap/Thamal, Jaintia Hills District   |

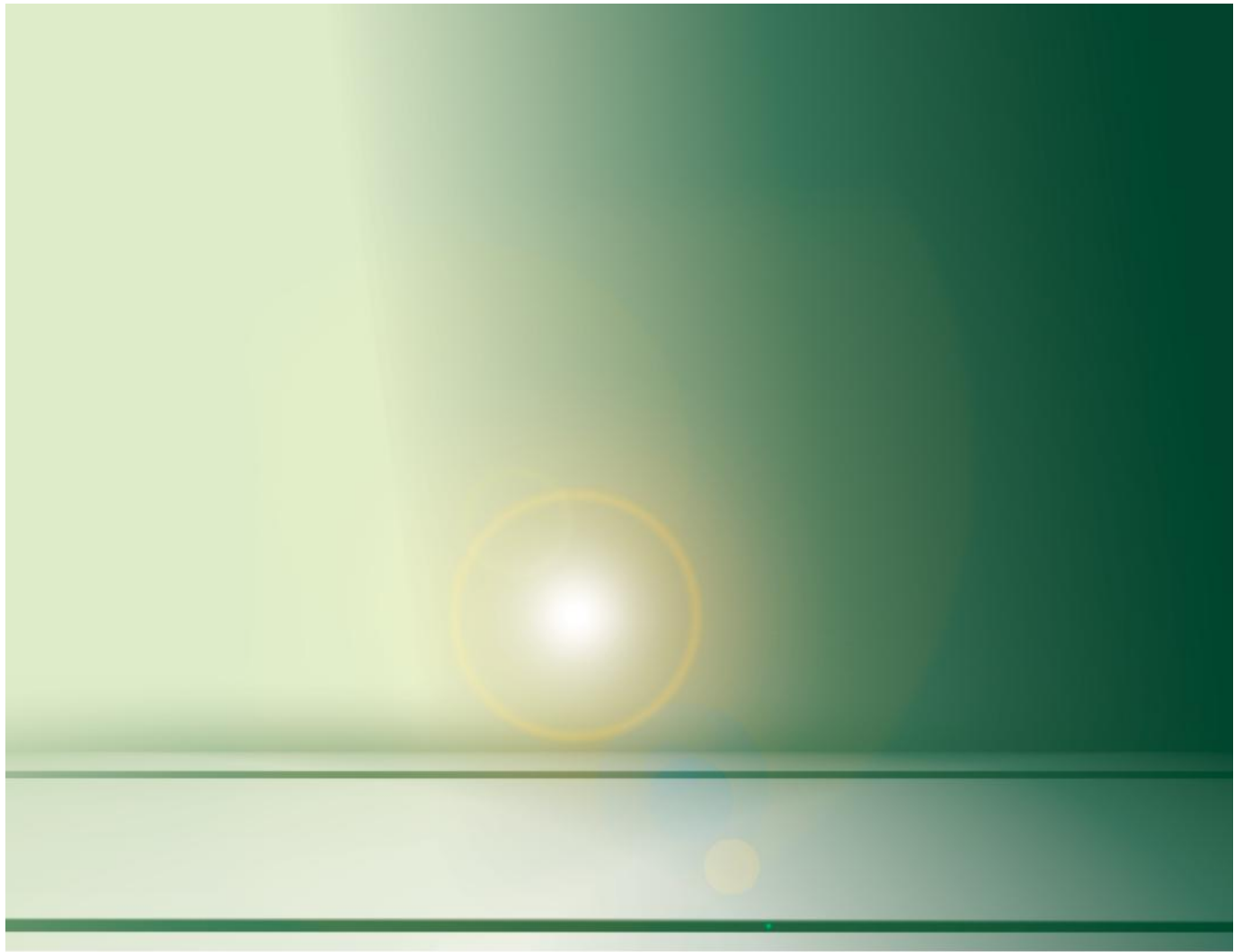
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| 48. | Sew Infrastructure Ltd,- D.G         | 19.03.2009 | D.G Set.(200 Kva),                          | Mlhep, Jaintia Hills District                    |
| 49. | Sew Infrastructure Ltd,<br>- Crusher | 19.03.2009 | Stone Crushing Unit<br>(120 Tph)            | Mlhep, Jaintia Hills District                    |
| 50. | Sew Infrastructure Ltd,<br>- Crusher | 18.03.2009 | Stone Crushing Unit<br>(25 Tph),            | Mlhep, Jaintia Hills District                    |
| 51. | Sew Infrastructure Ltd.,             | 18.03.2009 | Batching Plant<br>(150m <sup>3</sup> /Hour) | Mlhep, Jaintia Hills District                    |
| 52. | Sew Infrastructure Ltd.              | 20.03.2009 | Batching Plant<br>(30m <sup>3</sup> /Hour)  | Mlhep, Jaintia Hills District                    |
| 53. | K D Agro Industries                  | 30.07.2008 | Fruit Processing Unit                       | Bangalkata,Chibinang,Phulbari,West<br>Garo Hills |

**RENEWAL FOR CONSENT TO OPERATE ISSUED DURING 2008 - 2009**

| Sl. No. | Name Of Unit/Industry  | Date of Renewal | Type of Unit/Industry                 | Location   |
|---------|--|-----------------|---------------------------------------|--|
| 1.      | Vikash Saw-Cum-Veneer Mill                                   | 07.05.2008      | Sawmill                               | Umiam Industrial Area,Ribhoi District              |
| 2.      | Meghalaya Mineral Products                                   | 18.06.2008      | Re-Rolling Mill                       | EPIP, Byrnihat, Ribhoi District                    |
| 3.      | City Hut Family Dhaba  | 04.02.2009      | Restaurant                            | Oakland, Shillong,East Khasi Hills District        |
| 4.      | Colortek (Meghalaya) Pvt. Ltd.                               | 21.05.2008      | Cosmetics Manufacturing Unit          | Byrnihat, Ribhoi District                          |
| 5.      | North East Indira Gandhi Regional Institute of Health & M.S. | 08.08.2008      | DG Set                                | Mawdiangdiang, Shillong-12, East Khasi Hills       |
| 6.      | North East Indira Gandhi Regional Institute of Health & M.S. | 27.02.2009      | Sewerage Treatment Plant              | Mawdiangdiang,Shillong-12,East Khasi Hills         |
| 7.      | Prakash Hotel And Restaurant                                 | 18.03.2009      | Hotel & Restaurant                    | Laitumkhrah,Shillong,East Khasi Hills              |
| 8.      | Wessly Doloi Stone Crusher                                   | 28.04.2008      | Stone Crushing Unit                   | Rani,Jirang,Ribhoi District                        |
| 9.      | Wessly Doloi Stone Crusher                                   | 28.04.2008      | Stone Crushing Unit                   | Iew-um-pyur,Jirang,Ribhoi District                 |
| 10.     | Starlin Rynjah Stone Crushing Unit                           | 27.05.2008      | Stone Crushing Unit                   | Mawrie, Lumheh, Sohryngkham, E.Khasi Hills         |
| 11.     | Ishaan Technologies  | 09.02.2009      | Machine Making Unit                   | Amjok,Byrnihat,Ribhoi District                     |
| 12.     | Colortek (Meghalaya) Pvt. Ltd.                               | 21.05.2008      | Cosmetics Manufacturing Unit          | Byrnihat,Ribhoi District                           |
| 13.     | Byrnihat Oxygen Pvt. Ltd.                                    | 16.07.2008      | Oxygen and Nitrogen Gas Bottling Unit | Byrnihat,Ribhoi District                           |
| 14.     | Shivani Ispat & Rolling Mills (P) Ltd.                       | 21.05.2008      | Re-Rolling Mill                       | 13 <sup>th</sup> Mile, Tamulkuchi, Ribhoi District |



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| 15. | Wallamphang Roy Servicing Centre               | 25.05.2008                                   | Automobile Workshop                    | Jingkieng Nongthymmai, Shillong, East Khasi Hills      |
| 16. | Megha Polycon (P) Ltd.                         | 28.04.2008                                   | Water Storage Tank Manufacturing Unit  | Byrnihat, Ribhoi District                              |
| 17. | Nezone Industries Ltd.                         | 06.08.2008                                   | M.S. Tubes                             | EPIP, Byrnihat, Ribhoi District                        |
| 18. | Nalari Ferro Alloys (P) Ltd.                   | 10.03.2008,<br>16.07.2008<br>&<br>27.02.2009 | Silicon Manganese etc., Unit           | EPIP, Byrnihat, Ribhoi District                        |
| 19. | Maithan Smelters (P) Ltd. (Silicon Manganese)  | 10.06.2008<br>&<br>13.01.2009                | Silico, Ferro, Ferro Silicon Manganese | EPIP, Byrnihat, Ribhoi District                        |
| 20. | Suruchi Restaurant                             | 28.03.2009                                   | Restaurant                             | M.T.C. Building, Jail Road, Shillong, East Khasi Hills |
| 21. | M.D.H Beverages                                | 01.05.2008                                   | IMFL Bottling Plant                    | Umiam Industrial Area, Ribhoi District                 |
| 22. | Pawan Casting (Meghalaya) (P) Ltd [Re-Rolling] | 12.01.2009<br>&<br>06.02.2009                | Re-rolling Mill                        | Harlibagan, Ribhoi District                            |
| 23. | Meghalaya Cast & Alloys (P) Ltd.               | 11.04.2008                                   | Mild Steel Ingots                      | Harlibagan, Byrnihat, Ribhoi District                  |



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