**ACTIVITIES REPORT OF MPCB DURING 2009-2010 TO 2013-2014**

As dictated by the Pollution Control Acts and Rules, the Mizoram Pollution Control Board performs various duties

1**. Consent Management:**

Under Air (Prevention & Control of Pollution) Act, 1981 and Water (Prevention & Control of Pollution) Act, 1974, Consent Management for industries was started by the Mizoram Pollution Control Board since September, 2003. In line with the criteria adopted by the Central Pollution Control Board and other state Pollution Control Board, document on 'Categorization of Industries for Consent Management' was prepared by Mizoram Pollution Control Board and after approval of the same by the Board’s Meeting in its 31st meeting on 12.9.2003. The matter was then pursued in full swing on approval of the document. This document categorized industries, depending upon the pollution load and economic criteria into Red, Orange, Green & Non Polluting Category and Large, Medium and Small Scale Industries respectively.

 The process of granting consent involves checking and evaluation of application received in a prescribed form, spot verification, and issue of certificates to consented industries and maintenance of a separate register for record of the status.

 Consent mechanism involves two stages- the first being ‘Consent to establish’ which is a permission to establish industrial units and the second being ‘consent to operate’. Through the Consent certificate, proprietors are given conditions for necessary pollution control devices required for controlling air and water quality and standards for emission or effluent discharge, noise etc

 Details of consent so granted to industrial units are as follows:

 **YEAR CATEGORY**

**-----------------------------------------------------------------------------------------------------------**

 **RED ORANGE GREEN NON-POLLUTING**

2009-2010 13 29 10 4

2010-2011 10 53 91 3

2011-2012 16 192 36 14

2012-2013 29 69 53 18

2013-2014 23 47 54 18

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**TOTAL 91 390 244 57**

 Consented industries are periodically verified at the spot for compliance of guidelines as well as for evaluation of performance on installation of pollution control devices. Oil Exploratory drilling site at Meidum, Mizoram ISPAT Industries at EPIP, Lengte and Bairabi Thermal Power Plant, an undertaking of Power & Electricity are examples of such kind for which joint monitoring was carried out with Ministry of Environment & Forests, Govt. of India and Central Pollution Control Board.

**2. Complaints:**

Cases of public complaints are increasing in numbers with more creation of awareness. The main subjects of complaints are:

1) Air pollution due to smoke arising from open burning of wastes, bitumen, bakery, etc, excessive dusts due to road construction, dumping of wastes, etc.

2) Noise pollution due to operation of D.G sets, furniture workshops, stone crushers etc.

3) Water pollution due to slaughter houses, hospital wastes, septic tank leakage etc.

 Whenever complaints are received, site inspections are always carried out before any action is taken. Most of the cases are resolved by the Board’s Office while some complicated cases are put up in the Board’s meeting. Show cause notice or closure notices are served depending upon the extent of pollution and effects on environment and mankind. Units which are served closure notice are ONGC Ltd, AIRCEL Company for their DG Set at Ramthar and Thakthing Tlang, some Automobile Workshops and Furniture Workshops within Aizawl City.

Numbers of complaints received are as follows:

 **YEAR No. of complaints received No. of complaints disposed**

2009-2010 27 27

2010-2011 20 20

2011-2012 11 11

2012-2013 14 14

2013-2014 5 5

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 **TOTAL** **77 77**

**3. Water Quality Monitoring:**

Under National Water Monitoring Programme, CPCB has awarded the work of Water Quality Monitoring for 6 stations to Mizoram Pollution Control Board. The Scheme provides financial assistance for purchase of laboratory facilities. The Central Laboratory is subsequently set up and 6 water monitoring stations were established by the Board at the locations below:

1. River Tlawng upstream & Downstream, Aizawl.
2. River Tuirial Upper Catchment & Lower Catchment
3. Ramhlun North & Mission Vengthlang Tuikhur (Ground Water)

Quarterly Monitoring of water at the above six stations was taken up since June, 2005 expenditure for which were met from GIA. It was started with 13 parameters such as Temperature (°C), pH, Conductivity (µS/cm), Velocity of Flow (m/s), Dissolved Oxygen (mg/l), Chloride (mg/l), Total hardness as CaCO3 (mg/l), Calcium (mg/l), Magnesium (mg/l), Alkalinity (mg/l), Total Dissolved Solids (mg/l), Biochemical Oxygen Demand (mg/l) and Total Suspended Solids (mg/l). In 2009, with the sanction for procurement of some more laboratory equipments form CPCB, parameters like Turbidity, Phosphate, Nitrogen Ammonia, Nitrogen Nitrite, and Sodium, Faecal Coliform and Total Coliform were added with which the total parameter have been increased to 20. Last year, the CPCB revised protocol of the monitoring period changing the frequency to 12 per year. Following this guidelines, the frequency of the monitoring period has been done on a monthly basis till date which greatly increased monitoring works in the field and in the laboratory.

The Board maintains regular data submission in hard copies as well as through EDB.

In addition to the existing stations, 50 new stations are identified and approved by the CPCB.

**4. National Air Quality Monitoring Programme (NAMP)**

Under the assistance of the Central Pollution Control Board 3 ambient air monitoring stations has been established in Aizawl since 2005 in Khatla, Laipuitlang and Bawngkawn.

Monitoring has been performed on regular basis since June 2005 with the recommended frequency of 2 times a week. Monthly data is furnished regularly to CPCB from the month of July 2005 onwards.

The number of monitoring stations has been increased to 11 by establishing eight new stations in the following locations:

1. One (1) station at Lengpui, Aizawl District
2. One (1) station at Bazar Bungkawn, Aizawl
3. Two (2) stations at Lunglei, Lunglei District
4. Two (2) stations at Champhai, Champhai District
5. Two (2) stations at Kolasib, Kolasib District.

Monitoring from the above new stations has been regularity performed since December 2011

**5. Mass Awareness Campaign:**

 As the Board has no fund, it grasps every opportunity of invitation received to deliver speech or to present paper for awareness creation, which involves no expenditure. Otherwise, the Board organizes awareness programme under the sponsorship of other functionaries. Such programmes involve Govt. functionaries, NGOs, school children and public.

# YEAR Speech Paper Presentation Discussion/workshop etc

2009-2010 2 1 13

2010-2011 0 4 11

2011-2012 3 - -

2012-2013 4 2 4

2013-2014 1 1 4

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**TOTAL 21 14 75**

**6) Implementation of Rules**

i. Environmental **Impact Assessment Notification 2006:**

Some developmental projects require Environmental Clearance from the Ministry of Environment & Forests, G.O.I, which involves various stages. One of the first and foremost stages is public consultation/public hearing. The Environmental Impact Assessment Notification has placed conducting public hearing at the hands of state Pollution Control Boards.

Accordingly, the Mizoram Pollution Control Board had conducted several such hearing during the reporting years as listed below:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **YEAR** | **PROJECT PROPONENT** | **PROJECT** | **VENUE** | **TIME** |
| 2009-2010 | Mizoram PWD | National Highway | Lawngtlai | 18.11.2009 |
| 2011-2012 | SIPMIU | Sanitary Landfilling | Zemabawk, Aizawl | 17.6.011 |
| OIL Ltd., | Oil Exploratory drilling | Thenzawl | 18.8.2011 |
| Maubuang | 23.8.2011 |
| Darlung | 25.8.2011 |
| Phulmawi | 30.8.2011 |
| 2013-2014 | Mizoram PWD | Highway construction | Champhai | 17.1.2014 |
| Lunglei | 22.1.2014 |

1. **Manufacture, Storage & Import of Hazardous Waste (Management &Handling) Rules, 1989; as amended in 2000:**

The MPCB carried out Inventory of hazardous wastes units in Aizawl, Lunglei, Lawngtlai, Saiha and Kolasib District by personally inspecting the site, quantifying hazardous waste generation. It was found that hazardous wastes generating units are mostly automobile repairing workshops which discharge used oil whixh is defined as hazardous by the Hazardous (Manufacture, storage and Transboundary Movement) Rules, 2008.

**Summarised Inventory Reports are :**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Sl No.** | **District** | **No. of units** | **Landfillable HW** | **Recyclable****HW** | **Incinerable****HW** | **Total HW(MTA)** |
| 1 | Aizawl city | 110 | 17.889 | 145.533 | Nil | 163.422 |
| 2 | Lunglei  | 44 | 8.19707 | 23.85 | Nil | 32.074 |
| 3 | Kolasib | 26 | 1.7655 | 11.401 | Nil | 13.1665 |
| 4 | Lawngtlai | 16 | 1.656 | 2.1876 | Nil | 3.8436 |
| 5 | Saiha | 15 | 1.633 | 3.408 | Nil | 5.041 |

1. **Municipal Solid Waste (Management & handling) Rules, 2000:**

In Mizoram, solid waste management is being handled Urban Development & Poverty Alleviation Department and Trade & Commerce Department. The Urban Development & Poverty Alleviation Department takes up the collection of Municipal Solid Waste in Aizawl City while Trade & Commerce Department separately collect waste from meat and vegetable market places.

For effective implementation of the Municipal Solid Waste (Management & Handling) Rules, 2000, the Board has been making efforts to improve the present system of waste disposal by advising and interacting with the concerned above departments.

As per the provision of the MSW Rule, 2000, the Mizoram Pollution Control Board collects information as provided in the schedule of the aforesaid Rule from the Departments or Municipal Authority concerned, compiles the two reports and submits to the Central Pollution Control Board by 15th September every year.

To improve the existing dumping site at Tuirial and Sakawrhmuituai which is illegal, Urban Development & Poverty Alleviation Department and Trade & Commerce Department are advised to obtain Authorisation from Mizoram Pollution Control Board as per the provisions of the Rules. The UD&PA Deptt was granted an authorization for Engineered Landfilling at Tuirial and Mizoram Pollution Control Board also conducted public hearing as the project requires Environmental Clearance from MoEF. In the meantime, authorization was granted to the Trade & Commerce Department for establishing garbage composting at Lengte.

1. **The Batteries (Management & Handling) Rules, 2001:**
2. Inventory of Lead Acid Battery dealers /sellers all over the city of Aizawl, Lunglei, Lawngtlai, Saiha and kolasib District.
3. Awareness campaign programme carried out in the form of Press Release, distribution of copies of the Batteries (Management &Handling) Rules, 2001 Rules and information on the adverse consequences of lead acid batteries and their duties as per the provisions of the Rules to all dealers/ sellers identified in the inventory and to all heads of Department and distribution.
4. Complies annual report and submitted to the Central Pollution Control Board.
5. The 49th Board Meeting held on 1st August 2013 in the conference Hall of the PCCF, E&F deptt, decided to take Rs 1000/ for registration for those dealers registered after August 2013.
6. **The Recycled Plastics (Manufacturing & Usage) Rules, 1999 and the Plastics (**Manufacture, Usage and Waste Management) Rules, 2011:

 The MPCB is the prescribed authority for manufacture or recycling of waste polythene, the role of the Board is therefore somehow limited. However, it continues to give effort for effective implantation of the Rules: Such are:

1. Awareness creation programe was made by organizing meetings with coordinating NGOs like CYMA, publishing pamphlet regarding the ill-effects of use of polythene and littering of plastic wastes, Press release etc
2. Rendered assistance to DC Aizawl in ascertaining whether quality of poly bags shipped into our state conforms to the specification of the Rules

 3) Action taken Report on status of implementation is regularly submitted to CPCB.

4) Files affidavit as per the d**irections** of the **Hon’ble Supreme Court** in the matter **of Ankur Gutkha vrs Indian Asthma care society & others to the** Hon’ble Supreme Court

5) The Secretary, UD & PA Department was also requested to constitute State Level Advisory Board to monitor implementation of the Rules.

6) Initiated actions in plastic waste management and the 49th Board meeting agreed to adopt Plastic waste for Road construction technology for PWM in Mizoram

1. **Bio - Medical Waste (Management & Handling) Rules, 1998:**

The Mizoram Pollution Control Board takes up necessary steps for the implementation of the Bio - Medical Waste (Management & Handling) Rules. The steps taken so far are as mentioned below:

1. **Directions:**For effective implementation of the rules, directions have been issued to various stakeholder Departments and Health Care Units
2. **Inspection**: The Board also carried out inspection number of times to oversee compliance. These includes a) Inspection for authorization, b) Surprise Inspection, c) Inspection for Inventory - 3 rounds have been completed in Aizawl during 2009-2010 and Inspection for the cleanest hospital in Aizawl for 2009-2010 during UD & PA Dept. sponsored Cleanliness week.
3. As decided in the 49th Board Meeting held on 1st August 2013 in the conference Hall of the PCCF, E&F deptt, the Board members had inspected 10 hospitals out of 14 hospitals in Aizawl on 11th and 13th February 2014. The remaining hospitals were inspected on 28.8.2014.

**iii. Authorization:** Under the Rules, all Health Care Facilities require authorization from State Pollution Control Board. The process of authorization includes Scrutiny of application form, Site inspection with instruction for treatment of BMW, Issue or rejection of Authorization, Terms & Conditions in Authorization is appended with BMW waste treatment instruction in pictorial form as per the recommendation of the 184th Report of the Committee on subordinate legislation, Rajya Sabha, Terms & Conditions also includes instruction for management of Hg wastes as per HW Rules, 2008.

1. Status of authorization granted so far are:

**YEAR HCFs**

2009-2010 7

2010-2011 4

2011-2012 5

2012-2013 3

2013-2014 4

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**TOTAL 23**

**iv. Meetings:**

1. A meeting on ‘Bio–Medical Waste Management & Operation of Disposal Facilities’ was held on 29th July, 2008 at PIB Media Center, Tuikhuahtlang
2. Trainers’ training on Bio-Medical Waste Management for Doctors and Nurses was held at I & PR Deptt. Auditorium during 9-10th June 2011.
3. Two days training on Bio-Medical Waste Management was held on the 3rd and 4th of October 2013 in the Conference Hall, Information & Public Relation Department, Government of Mizoram Aizawl under the sponsorship of the Ministry of Environment and Forest, Government of India

**v. Annual Report:**

Annual Report is regularly submitted to the Central Pollution Board by March every year.

**Status is as below:**

**YEAR Total HCFs Total Beds Total Quantity of BMW generated**

 **(kg/day)**

 **------------------------------------------------------------------------------------------------------** 2009-2010 94 1607 631.00

2010-2011 91 2654 808.34

2011-2012 94 2675 9347

2012-2013 94 2876 2039

2013-2014 95 2906 440

**vii. Vehicular Emission under the Central Motor Vehicles Rules:**

Earlier, the authorized testing agency in the state was the Transport department. But, the department due to lack of expertise and other reasons could not implement the job. As the Board is now manpowered with the technical qualified staff, it is considered well capable and as such, vide letter No.D.21017/98/TRP (MVW)/Pt dt 10.12.04, the govt. handed over the job to the Board which is now the only authorized testing agency in the state. The Board since then is gearing itself up to start the testing of vehicular emissions, however, due to lack of fund for procuring instruments, the work could not be started sooner. Proposal for procurement of necessary equipments like Auto Exhaust-Co-HC Analyser for Petrol Engine emission and Smoke Meter for Diesel Emission is submitted to the CPCB & the MoEF.

With release of the financial assistance from the Ministry of Environment & Forests, Govt. of India vide its order No. G. - 27017/6/201-CPW Dt 14.2.2012, 14 sets of 5 – Gas Analyser ‘Auto Serve, Model HG- 540’and Diesel Smoke meter ‘Naman, Model SM have been procured and testing have been commenced at four sites in Aizawl since December 2012 though the programme was officially launched on 17th January 2013. These sites are:

1) New Secretariat Complex, Aizawl- (Station Code – 001)

1. Kimte Motor Works, Ngaizel, Aizawl – (Station Code – 002)
2. Pu H. Lalthlanga In, Bawngkawn, Near Brigade Field – (Station Code – 003)
3. Pu K. Vanlalmuana In, Zemabawk North – (Station Code – 004)

Testing has been carried out in these sites and status of testing as on March 2014 are as follows:

Type of vehicle No. of vehicle No. of vehicle No. of vehicle % of passed

 tested Failed passed vehicle

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

2-wheeler 380 20 360 94.74

3-wheeler 10 NIL 10 100.00

LMV(Petrol) 3090 217 2873 92.98

LMV(Diesel) 1222 98 1124 91.98

MMV 467 22 445 95.29

HMV 215 5 210 97.67 \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Total 5384 234 5022** 93.28\_

|  |  |  |
| --- | --- | --- |
| Sl. No. | **TYPE OF VEHICLE** | **TOTAL** |
| 1 | 2 WHEELER | 13005 |
| 2 | 3 WHEELER | 770 |
| 3 | LMV (P) | 12012 |
| 4 | LMV(D)  | 3036 |
| 5 | MMV | 827 |
| 6 | HMV | 431 |
|   | **TOTAL** | **30081** |

**ENVIS :**

 Mizoram Pollution Control Board has been entrusted by the State Government to carry out the establishment of ENVIS Node in Mizoram from June, 2003 which was assigned the task of collection, storage, retrieval and dissemination of information on status of environment and its related issues.

 The ENVIS Node had created two websites, one on Environment & Forests, Mizoram and the other on Mizoram Pollution Control Board having URLs: <http://www.envfor-mizoram.com> and : <http://www.envfor-mizoram-com/mpcb/mpcbindeu.html> respectively.

 The Ministry of Environment & Forests, Government of India, after review of performances of ENVIS Nodes & Centres of the Country, had upgraded the ENVIS Node, Mizoram to ENVIS Centre during June, 2004.

 ENVIS Centre is currently functioning with 4 staffs namely Programme Officer, Information Officer, IT Assistant and Data Entry Operator. The Centre has been working in full swing collecting and disseminating local environment related news and information. A bi-annual English newsletter called **MIZO-ENVIS** has been published in since 2005.

 ENVIS Centre, Mizoram has launched a new website with the domain name of [www.mizenvis.nic.in](http://www.mizenvis.nic.in) that is regularly updated with latest local environmental news, data collection, newsletter, etc.

E- wastes Mgt.

Inventorization was done in the year 2011-2012 in 2 (two) districts of Mizoram, i.e. Aizawl and Lunglei where the state capital and the second largest town situated. The quantity of E-waste generated in the state is estimated to be about 18 Tonnes.

Details of the Inventory report are:

Type of E-Wastes Nos. Weight in kg(approx)

Computer & 842 7053 kg

 Accessories:

Refrigerator 119 5950 kg

TV Sets 115 2300 kg

Used cartridges 1938 1938 kg

Others (Old photocopiers, 759 kg

CFL bulb, mobile phones

and fax machines).

Inventory could not be continued in other districts due to shortage of manpower and fund