**IMPLEMENTATION OF VARIOUS RULES BY MIZORAM POLLUTION CONTROL BOARD**

Mizoram Pollution Control Board had no technical staff for a number of years since its inception in the year 1989 and it was only since June 2003, the Board was manpowered with the eight technical staff sanctioned by the Ministry during 10th Plan. Since then a number of activities were initiated by the Board and various technical functions assigned to it have been undertaken. In fact, all the technical activities and functions of the Board today are completely assigned to the above 8 staff.

Following are the achievements made on implementation of various during the last five years i.e 2006-2007 to 2011-2012 .

1. **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 year as listed below:

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| --- | --- | --- | --- | --- |
| **YEAR** | **PROJECT PROPONENT** | **PROJECT** | **VENUE** | **TIME** |
| 2008-2009 | ONGC Ltd | Oil Exploratory drilling | Hortoki | 9.1.2009 |
| 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; Amend, 2000:**

The MPCB carried out Inventory of hazardous wastes units in Mizoram wherein it has been found that hardly any industry worth thinking in terms of Hazardous Wastes exists since the quantity of wastes were less than the specified value of the schedule of the Rules. Units associated with the use or generations of the hazardous chemicals were therefore taken care of under the Air Act and Water Act and were granted consent with specific conditions for wastes disposal.

However, with the notification of the new rule called the Hazardous (Manufacture, storage and Transboundary Movement) Rules in 2008 which nullifies the concentration standard, wastes are said to be hazardous irrespective of the quantity if it conform to the criteria set in the schedules and require authorization from SPCB.

 So far 4 units have been granted authorization.

**Summarised Inventory Reports**

 **Total Quantity of Wastes : 217.5192 MTA** out of which,

1. **Landfillable – 31.1405 MTA**
2. **Recyclable - 186.3787 MTA**
3. **Incinerable wastes - below 5000 TPA**
4. **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. However, authorization to Trade & Commerce Department was refused on the ground that the proposed site is within the radius of 20 km from Lengpui Airport which is against the provision of the Rules.

In compliance of Hon'ble Supreme Court's Order, dated October 4, 2004 and July 26 2004 in the matter of Writ Petition (Civil) No.888 of 1996, Mizoram Pollution Control Board has filed an affidavit on 9.2.2005. Following the above Court's Order dated 4.1 0.2004, the Central Pollution Control Board has initiated a scheme on setting up of demonstration Project for Solid Waste Management. Under this scheme, UD & PA Dept prepared a project for Lunglei town and the Board had forwarded the same to the CPCB.

Status Report on MSW Management in Aizawl, lunglei and Saiha Districts and copy of Consent to establish granted to trade & Commerce Department for composting of wastes are enclosed at Annexure II(a) & II(b).

1. **The Batteries (Management & Handling) Rules, 2001:**

Effective implementation of the Batteries (Management & Handling) Rules, 2001 are hindered by foreign made batteries which are locally available in the market at lower prices, thereby, increasing number of unauthorized sellers.

*Progress made so far are:*

1. Inventory of Lead Acid Battery dealers /sellers all over the city of Aizawl.
2. As part of awareness campaign, copies of the Batteries (Management &Handling) Rules, 2001 Rules were given to all dealers/ sellers identified in the inventory. All dealers/ sellers were informed of the adverse consequences of lead acid batteries and their duties as per the provisions of the Rules. The Board has even requested them to fill up relevant forms as per the provisions of the Rules and submit the annual compliance status report to Mizoram Pollution Control Board.
3. The Board also sends copy of the Rules to all heads of department requesting them to comply with the rules wherever applicable.
4. There is no manufacturer or recycler of batteries, the Board however decided to enforce the buyback policy from the authorized dealers. In this regard, the Board has written to Amco Battery Limited, Chennai, Calcutta Industries Limited, Exide House, Kolkata, Motor Industry Co. Limited, Bangalore to provide a list of authorized dealer in Mizoram
5. The Rule was amended in 2010 and was notified in the Official Gazette dt 2.5.2010. Press release on the duties of dealers and other stakeholders specified by the new Rule was made for public awareness through I & PR Department in September 2010.
6. PR was made instructing all dealers to register with the Board
7. **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 coordinating NGOs like CYMA. Meetings were held and pamphlet regarding the ill-effects of use of polythene and littering of plastic wastes was also jointly issued by the Mizoram Pollution Control Board and Central YMA, largest NGO in Mizoram.

2) Regarding use, collection, segregation, transportation and disposal of plastics, the prescribed authority i.e., Deputy Commissioners of Districts of Mizoram have been intimated by the Mizoram Pollution Control Board to enforce Recycled Plastics (Manufacturing & Usage) Rules, 1999.Besides, the Board had also written to all Deputy Commissioners regarding their responsibility on pollution control especially in management of plastics and solid waste.

3) A meeting was also held at the chamber of DC, Aizawl regarding prescribed authority on use, collection, segregation, transportation and disposal of plastics on 16.8.2010 as there was confusion on the subject.

 4) As invited by DC, Aizawl, assistance was rendered to the District authority in ascertaining whether quality of poly bags shipped into our state conforms to the specification of the Rules in February 2010.

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

6) With notification of new plastic Rules called the Plastics (Manufacture, Usage and Waste Management) Rules, 2011, the AMC was requested to incorporate the provisions of the Rules pertaining to them in the municipal bye-laws.

7) The AMC was also requested to take necessary actions regarding ban on use of plastic material for packaging gutkha, pan masala as per Supreme Court’s order.

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

9) Press Release on salient features of the new Rules was made through the Department of I & PR.

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 such as:

a) Directors, Health & Medical Education and Health Services Department– to instruct all Health Care Facilities (HCFs) for compliance with BMW Rules

b) All HCFs-to apply for authorisation (23.9.2008 & 17.6.2010)

1. Directors, Health & Medical Education Department, Health Services Department and NRHM – to obtain authorization for all CHCs & PHCs in rural areas.(11.5.2010)
2. NRHM -to adopt deep burial system for disposal of category-I wastes in rural areas.
3. All HCFs-Reminder to submit Annual Report every January
4. Health & Medical Education Department-to pursue with setting up of Common Bio-Medical Waste Treatment Facility (CBMWTF) in Aizawl as per MoEF’s letter D.O No. 20-3/2008-HSMD dt 26.12.08
5. All HCFs – to ensure proper collection of Hg wastes as per HW Rules, 2008 (21.7.10)
6. All HCFs – to segregate, pack, transport and dispose their wastes as per BMW Rules & to have their own treatment facilities like deep burial, autoclave, chemicals for disinfection & needle cutter (17.6.2010).

ii) **Inspection**: The Board also carried out inspection number of times to oversee compliance. These includes

a) Inspection for authorization

b) Surprise Inspection

1. Inspection for Inventory. 3 rounds have been completed in Aizawl during 2009-2010.
2. Inspection for the cleanest hospital in Aizawl for 2009-2010 during UD & PA

Dept. sponsored Cleanliness week.

**iii. Authorization:** Under the Rules, all Health Care Facilities require authorization from State Pollution Control Board. The process of authorization includes

1. Scrutiny of application form
2. Site inspection with instruction for treatment of BMW
3. Issue or rejection of Authorization.
4. 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.
5. Terms & Conditions also includes instruction for management of Hg wastes as per HW Rules, 2008.
6. Status of authorization granted so far are:

**YEAR HCFs**

2006-2007 1

2007-2008 3

2008-2009 6

2009-2010 7

2010-2011 4

2011-2012 5

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**TOTAL 26**

**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. BMW Mgt has been discussed as agenda items in several Board Meetings
3. Meetings on transportation of hazardous BMW to Falkawn Incinerator on 9.8.2007, 24.11.2008 & 9.8.2010 at Health & Medical Education Department Office.
4. Trainers’ training on Bio-Medical Waste Management for Doctors and Nurses was held at I & PR Deptt. Auditorium during 9-10th June 2011.

**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)**

 **------------------------------------------------------------------------------------------------------** 2007-2008 89 945 695.43

2008-2009 89 1131 821.47

2009-2010 94 1607 631.00

2010-2011 91 2654 808.34

**vi. Problems & Limitations:**

1. Shortage of manpower in the Board
2. Lack of fund

District wise Status Report on BMW Management in Aizawl, Lunglei, Lawngtlai, Kolasib, Champhai and Saiha Districts and copy of authoristaion are enclosed at Annexure II(a) & II(b).

**7. 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 have been carried out in these sites and till February, 2013, 824 vehicles have been tested testing in other districts may be subsequently extended as required.