

# **Management of Hazardous Wastes in Maharashtra**

**Ref.:** Compliance of Orders of the Supreme Court of India  
in the matter of W.P. (C) No. 657 of 1995,  
Dated 14-10-2003

**Presentation to  
Shri B.P. Pandey  
Principal Secretary  
Department of Environment  
Government of Maharashtra**



**MAHARASHTRA POLLUTION CONTROL BOARD  
MUMBAI**

**July 19, 2004**

# Background

- **Public Interest Litigation in the Apex Court CWP No. 657 of 1995.**
- **High Powered Committee Report. HPC chaired by Prof. M.G.K.Menon**
- **Court order, dated 14.10.2003: compliance of direction in a time bound manner.**
- **Supreme Court Monitoring Committee for compliance of the directives issued. SCMC chaired by Dr. G. Thyagarajan. Consists of 8 Members.**
- **The SCMC to submit quarterly report to the Court on compliance.**
- **1<sup>st</sup> Quarterly Action Taken Report submitted by MPCB on 31.01.2004.**
- **2<sup>nd</sup> Quarterly Action Taken Report submitted by MPCB on 14.5.2004.**

# Closure of defaulting industries

- 3427: HW generating units in Maharashtra (1989 Rules)
- As per the directives of the Court, action was initiated against the industries who did not possess authorization and also against those who were not complying with the conditions of the authorization granted by MPCB.

# Current status as on 17.07.2004

- Closure directions issued : 823
- Complied industries : 620
- Closed industries : 74
- Power/ water disconnection : 21
- Given permission for storage : 108

(Nagpur/Kolhapur/A'bad/Pune/Nashik)

# **Common Haz. Wastes TSDF**

- **Two TSDFs are available within a reasonable distance (100 km) for HW generating units in MMR. They are at Taloja and TTC New Mumbai**
- **This region covers majority of HW generating units. Taloja (1445) and TTC (803)**
- **Closure directions were issued to:**
  - (a) All non-complying units**
  - (b) Units operating without authorization**
- **Industries in Nagpur, Aurangabad, Amravati and Kolhapur regions/districts, were permitted on-site storage till TSDFs are established by MIDC for them.**

# Common Haz. Wastes

## TSDF (contd.)

- MIDC has issued LoI to the qualified operators for CHWTSDF at Buti Bori (Nagpur), Ranjangaon (Pune) in June 2004. Agreement finalised. Will be signed by the end of July, 2004.
- There is also the assurance to this effect given in the Legislative Assembly (winter session, 2003) by the Hon'ble Minister of State for Environment.
- Notification of these sites is being done by MIDC in July 2004. This is in compliance of the SCMC Orders .

# Removal of HW from illegal dump sites

- The Court has directed that hazardous wastes dumped illegally / unauthorized shall be lifted and sent to SLF.
- MPCB has adopted a three pronged approach to address these issues.

## 1 The Hazardous Waste lying in the premises of Industries:

Directions were issued by MPCB to the industries to lift the H.W. and send it to CHWTSDF immediately. Following table shows Quantity of hazardous waste received at TTC & Talaja CHWTSDF.

### (a) Hazardous Waste Received at Talaja CHWTSDF

Sr. No.	Month	SLF (MT)	Treat. and SLF(MT)	Incineration (MT)	Total (MT)
1	Upto Dec-03				21943
2	Jan. 04	6221	557	233	7011
3	Feb. 04	2353	559	213	3125
4	Mar. 04	1125	783	235	2143
5	Apr. 04	1800	1750	250	3800
6	May. 04	5000	8000	300	13300
7	Jun. 04	1800	1000	400	3200

### (b) Hazardous Waste Received at TTC CHWTSDF: 1058 MT till May, 2004

# Levy of fine

- **The industries not complying with the directives of the Board are being levied fine as per Rule 16 (3) of the H.W. Rules.**
- **Show cause notices issued to 18 industries:**
  - **Total hazardous waste: 45,800 MT (approx)**
- **Subsequent to proposed directions regarding levy of fines, industries have started lifting of HW. It is being sent to CHWTSDF. MPCB is monitoring the progress.**
- **Fine of Rs. 16.62 Lacs recovered from two industries.**
- **MIDC also initiated action to lift HW from illegal dump sites in the area. At Tarapur, 50% cost by MIDC, 50% cost by industries. MPCB is facilitating compliance. This is as per SCMC orders.**

# Hazardous Waste lying in MIDC Industrial areas

(a) CETP sludge:

**CETPs in the MIDC areas are one of the major sources of H.W. generation, in the form of ETP sludge. As per the information gathered by SCMC the situation on the H.W. lying in MIDC areas is as follows**

S. No.	MIDC area	Qty. of H.W. (M.T.) Approx.
1	Mahad	1747
2	Roha	200
3	Taloja	200
4	Badlapur	15
5	Ambernath	25
6	Dombivali	210
7	TTC, Thane Belapur	200
8	Patalganga	200
	<b>Total</b>	<b>2797 MT</b>

# **Hazardous Waste lying in MIDC**

## **Industrial areas (contd.)**

### **Illegal dump sites:**

- **Besides above there are certain illegal dump sites out side MIDC areas.**
- **MPCB has approached M/s IRSA, Hyderabad for conducting survey in Thane, Raigad and Ratnagiri using remote sensing techniques. This is as per advice of SCMC and being done for the first time in India.**
- **There are also certain closed units in MIDC areas. Premises of such units are being used for illegal dumping H.W. MIDC has been directed by SCMC to remove the HW.**

# Hazardous Waste lying in MIDC Industrial areas (contd.)

As per the information obtained by MPCB the position is as under:

Sr. No.	MIDC area	Approx. Qty. of H.W. dumped illegally (in MT)
1.	MIDC, TTC (A & EL Block)	200
2.	MIDC, TTC (C Block )	100
3.	MIDC, Dombivali	180
4.	MIDC, Dombivali Phase-II	30
5.	MIDC, Ambernath (Chikhloli & Morivali)	17
6.	MIDC, Ambernath	08
7.	MIDC, Badlapur	15
8.	MIDC, Tarapur	40,000
9.	MIDC, Patalganga	200
10.	MIDC, Roha	200

**Total:**

**40950 MT**

**Besides, about 1.5 lacs MT of HW is at dump site in Tarapur MIDC industrial area. SCMC directed to create SLF for its disposal by March, 2005.**

# Directives of SCMC regarding Tarapur MIDC

- Closure of 75 industrial units for about one week due to discharge of highly acidic effluent in sump no.3.
- Restart orders issued after obtaining BG of Rs. 25000 and subject to condition that if one fails, BG of all will be forfeited, units will pay 50% HW disposal cost and also pay CETP contribution.
- 23 MLD CETP to be established by 31.5.2005 with cost sharing 25:25:50(15+35). Payment by industries/JVP by 31.7.2004.

# **Hazardous Waste lying in MIDC**

## **Industrial areas (contd.)**

- **Action taken:**
  - **In order to get these illegal dumps removed from CETPs as well as the illegal dump sites, MPCB has issued directions to MIDC under Section 5 of E (P) Act, 1986 for Tarapur area.**
  - **MIDC has agreed to remove the H.W. (sludge) from CETPs and illegal dump sites.**
  - **MPCB and MIDC are working to sort out modalities for removal of the HW from illegal dumpsites at Tarapur.**

# **H.W. lying outside MIDC area**

- **As for the H.W. lying outside MIDC areas, MPCB had proposed to outsource this work to identify and quantify the illegal H.W. dump sites.**
- **Considering the problems in locating the dumpsites accurately and then their quantification, characterization of HW etc., Board has now proposed to use the services of Indian Remote Sensing Agency or such other organization to identify the illegal dump sites outside MIDC area using technique of satellite imaging.**
- **This is in pursuance of the discussions in the 4th meeting of SCMC held at New Delhi on 7-8th April, 2004. To begin with MPCB proposes to take up work in Thane, Raigad and Ratnagiri districts.**

# **Clean technology for re-refining/recycling of used oil/waste oil**

- **The Court has directed that re-refining/ recycling of used oil/waste oil shall be done only through application of clean technology.**
- **MPCB had issued Public Notice in the leading news papers for the information of all concerned regarding provisions under the rules and the Apex Court directives**
- **MPCB has suspended all the authorizations of defaulting units.**
- **Member Secretary has appointed an Expert Committee for verification of compliance in terms of adoption of clean technology in the process of re-refining and recycling. The committee consists of experts from University Department of Chemical Technology of Mumbai University, Central Pollution Control Board, Industry Association, M.P.C. Board Member and Regional Officer (HQ), MPCB. The Committee has completed the work.**

# Inventorization

- **Steps have been initiated by MPCB. Accordingly the quantity of hazardous waste generated by the industry has been calculated/estimated keeping in view the manufacturing process, quantity of raw materials used, quantity of the finished products produced and other aspects of mass balancing.**

**Hazardous Waste generation, MT/year.**

*(Based on information available on record in the Board)*

<b>Sr. No.</b>	<b>Disposal Method</b>	<b>New Mumbai</b>	<b>Pune Dist.</b>
1.	Secure Landfill	21956.16	30732.24
2.	Incineration	7165.44	12444.12
3.	Sale / Recycling	2759.88	12665.40
	<b>Total</b>	<b>31881.48</b>	<b>55841.76</b>

# **Show cause notices to Auctioneers**

- **As per Hazardous Waste Rules, waste oil/used oil and other waste listed in schedule IV are required to sale or auction only to those recyclers registered with CPCB possessing EST and ESM.**
- **In order to regulate the auction of such materials in the State, show cause notices were issued to 14 no. of auctioneers / bulk consumers selling the wastes.**

# **Strengthening of MPCB**

- **Laboratory infrastructure strengthening**
- **Construction of building for Central Laboratory**
- **Work study by CRISIL**
- **Strengthening of field monitoring and surveillance**
- **E-governance**
- **Pension/Removal of anomalies in R/R**

# Ship-breaking

- **Meeting held with MbPT & ship breakers.**
- **Follow-up with MMB & MbPT for compliance of directions of the Court.**
- **Authorizations issued to ship breakers.**

# **Burning of hazardous and non-hazardous wastes on beaches**

- **Court Orders communicated to DMs in coastal areas.**
- **Public Notice issued in leading news papers.**

# **Bio-Medical Waste**

- **Rapid survey done for major towns in the State.**
- **Approach paper regarding Policy Issues and Options prepared for Mumbai and submitted to Urban Development Department for further action by MCGB.**
- **Public Notice for authorization**

# **Management of Plastic Waste**

- **Public Notice issued in leading news papers.**
- **Prosecutions launched in 3 cases.**
- **Closure directions issued in 4 cases.**

# **Awareness programme**

- **Meeting with NGOs**
- **Meeting with industry association**
- **Print media**
- **Electronic media**

# **Display of information regarding authorization**

- **Directions issued to the industry**
- **Public Notice issued in print media and website of MPCB**
- **1065 industries have complied as on date.**
- **Efforts stepped up through MPCB field staff to ensure the compliance by the industries.**

Thank you