

# MAHARASHTRA POLLUTION CONTROL BOARD

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No.:MPCB/ZO-PAMS/CEPI/B- 956

11/02/2011

To,

✓ The Member Secretary  
Central Pollution Control Board  
Parivesh Bhavan, East Arjun Nagar, Shahadra  
Delhi 110 032.

Sub: Implementation of Action Plan for 5 Critically Polluted Industrial Areas in the State of Maharashtra.

Ref: 1. Final Action Plans submitted as per the discussions held on 1.11.2010.  
2. MoEF OM dated 13.1.2010 and 26.10.2010

Dear Sir,

MPCB has already submitted the action plans for control of pollution for 5 critically polluted industrial areas of Dombivali, Navi Mumbai, Tarapur, Aurangabad, and Chandrapur. These action plans have been developed based on several discussions with CPCB, more particularly on 1.11.2010 and also, in consultations with the major stake holders. The CEPI reports have created significant awareness in all the stake holders including the Governmental Agencies, Industries and the local people. It is a very significant step towards the environmental protection in these critically areas.

These action plans include short and long term actions and many of the actions have already been initiated in the field. In fact, final action plans submitted in November, 2010 included the status of various actions, particularly in the short term scenario. A statement of the progress in implementation in each of these CEPI areas is annexed separately with this letter and the summary of the initiatives and the progress is as under:

1. The action plans have been circulated to all the stake holders for implementation in a time bound and effective manner. The action plans have been hosted on MPCB website for public information as required under the OM dated 26.10.2010

2. The control and management of VOCs in the industrial areas is the most significant aspect of the CEPI report. Accordingly, Board has already placed an order for VOC monitoring in these 5 CEPI areas on the basis of CPCB protocol, as decided in the meeting held on 1.11.2010, vide MPCB letter No. MPCB/PAMS/VOC-WO/B-7986 dtd.23.12.2010. The monitoring program has been received from the agency and is enclosed.
3. The industries with major solvent use have already been identified for all these 5 areas in the action plans and random solvent audit by the Board Officers have started. Concerned Regional Officers have issued directions to these industries to improve the performance of solvent recovery units and however the industries in Tarapur and Dombivali have requested extension of time up to 31st March, 2011 for completion of the works under this initiative. In Aurangabad Region, all 5 bulk drugs, pharmaceutical and chemical industries have been issued instructions to increase the solvent recovery.
4. MPC Board in its 151st meeting has decided to restrict the use on pet coke and accordingly, the no industries in the CEPI areas are now given consent with pet coke. There is only one industry in Aurangabad which was earlier allowed by the Board to use the pet coke and it has been directed to upgrade air pollution control systems within 6 months and Bank Guarantee for Rs.5 lakhs is taken.
5. The TTC Navi Mumbai and Dombivali industrial areas have CNG access and availability. Board has followed up the matter with industries association as well as MGL to provide CNG for industrial use which will effectively reduce the air pollution in the area. As a outcome, 3 industries have started using CNG for industrial use. CNG is already available for public transport in these areas.
6. The CETPs at Dombivali and Navi Mumbai have taken steps to improve their performance including provision of new mixers, online pH Meter, Provision of DG sets and substantial capital investment has been made. The CETP of Aurangabad could not be commissioned so far due to non availability of EC where 100% recycle and reuse has been recommended. However, individual industries in Aurangabad have taken initiatives, more particularly the electroplating industries for removal of heavy metals.
7. MPC Board has resolved to provide 5 CAAQMS, one each in these 5 CEPI areas and accordingly, a proposal has been submitted to CPCB for financial assistance vide office letter No.MPCB/PAMS/CAAQMS-Expan/B-5051 dtd.6.8.2010.
8. In Chandrapur, Board has issued directions for transportation of minerals and materials through mechanically closed trucks which will reduce the spillages and the resultant air pollution. A typical design is enclosed.

Hon'ble Minister, Environment, Govt. of Maharashtra has also taken the review of the progress on 9th of December.

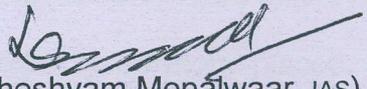
9. MPCB has prepared a proposal for preparation of emission inventory and air quality modeling for Chandrapur District through NEERI which is under final consideration.
10. Board has prepared a proposal for online stack monitoring and the same was submitted CPCB in November. CPCB comments are received on 10.2.11 and considering the comments, EoI will be issued in next 15 days.
11. Board has already strengthened its man power by recruiting about 114 Field Officers thereby improving the enforcement and compliance levels in the field. Board has also initiated the website display to the directions issued by the Board to improve the transparency and public information about the non-complying industries.

It is therefore submitted that MPCB and the concerned implementing agencies are taking sincere efforts for effective implementation of the action plans and there is a substantial progress in implementation of action plan. As per MOEF OM, the moratorium is to be lifted once the action plans are approved and implementation is started.

It is therefore, requested to consider this progress and lift the moratorium at the remaining 4 CEPI areas of Chandrapur, Aurangabad, Navi Mumbai and Dombivali. This will ensure that the positive steps taken by all stakeholders are taken on record.

With regards

Yours faithfully,

  
(Radheshyam Mopalwaar, IAS)  
Member Secretary

**Copy submitted to:**

1. <sup>SP</sup>Secretary, Ministry of Environment and Forest, Govt of India, Paryavaran Bhavan, CGO Complex, Lodhi Road, , New Delhi

2. Secretary, Environment, Govt. of Maharashtra, Mantralaya, Mumbai- for information

**Copy submitted to:** Chairman, MPCBtary, MPCB - for information.

**Copy to:** Chief Executive Officer, MIDC, Udyog Sarathi, Mahakali Caves Road, Andheri (E), Mumbai 400 093 - for information

**Copy to:** WPAE/APAE/PSO/SLO(D)/ AS(Tech)/RO(HQ) - for information and necessary follow up.

**Copy to:**

The Regional Officer, MPC Board:

Mumbai/Navi Mumbai/Raigad/Thane/Kalyan/Pune/Nashik/Kolhapur/Nagpur /  
Aurangabad / Amaravati/Chandrapur - for information and necessary follow up.

## **Compliance of CEPI action plan- Chandrapur**

### **A. Initiatives taken by Maharashtra Pollution Control Board**

- 1. Direction issued to coal washeries to improve environment in the washeries .**
- 2. Direction issued to Sponge Iron Units to improve environment in the sponge iron units.**
- 3. Direction issued to ACC Cement Ghugus to close down old plant on 28-02-2011.**
- 4. Consent to Establish granted to Ballarpur Industries Ltd. to installed to modernized plant by 31-12-2011.**
- 5. Directives issued to WCL (CMD) to adopt mechanized closed system for transportation of coal from mines.**
- 6. Direction issued to MIDC to develop landfill site at MIDC Tadali for disposal of non hazardous solid waste**
- 7. Direction issued to collector Chandrapur to shift coal depose located on Nagpur Chandrapur road.**
- 8. Direction issued to PWD Department to construct bypass road for Chandrapur**
- 9. Direction issued to Chandrapur Municipal Corporation to provide Sewage Treatment Plant and MSW of adequate capacity.**
- 10. Direction issued to Ballarpur Municipal Council to provide Sewage Treatment Plant and MSW of adequate capacity.**

**B. Compliance**

**a. Sponge Iron:**

- 1. WHRB is provided by Lloyd Steel , Shidhabali & Gopani . Grace industries is in a process to provide WHRB.**
- 2. House keeping is improved by Lloyds Metal, Chaman Metallics & Gopani Iron & Steel.**
- 3. Solid Waste disposal is started by Lloyds Metal, Chaman Metallics & Gopani.**

**b. Coal Washeries:**

- 1. Zero discharge of effluent is achieved by coal washeries under CEPI.**
- 2. APC arrangement upgradation is in progress by coal washeries.**
- 3. Concretization of internal road completed.**

**c. CSTPS Chandrapur:**

- 1. Ammonia dosing system is installed in unit No. 1, 2 , 3, 4 and in unit No. 5 , 6 ,7 this system will be installed by March 2011.**
- 2. 10 % imported coal and 20% washed coal is utilized.**

**d. Cement Plant:**

- 1. M/s. ACC Cement has almost completed modernized plant to achieve SPM below 50 mg/Nm<sup>3</sup> Likely to be commissioned by 1<sup>st</sup> week**

**e. Ballarpur Industries Limited.:**

- 1. Work of establishing modernized plant for reduction of water consumption, hydraulic load and organic load of effluent is in progress.**

2. **Sludge thickener and double wire filter press is commissioned**
3. **Vegetation over the accumulated lime sludge heaps is completed.**
4. **Industry is generally achieving stipulated standard of BOD 25 mg/ltr. Of industrial effluent.**

**f. WCL:**

**At present WCL is practicing coverage of coal transportation trucks by tarpaulin.**

2. **Dust suppression arrangement by water sprinkling is strengthened .**

**g. Chemical Unit:**

1. **M/s Multi Organic Limited, Chandrapur has achieved zero discharge of effluent**
2. **Bag filter to 4.5 TPH boiler is commissioned. Erection work of bag filter to another boiler is in progress.**

**h. PWD:**

1. **The work of construction of 4 lane concrete road from Chandrapur to Padoli is in progress . Two lanes are concreted.**

**i. MIDC:**

**The work of construction of 4 lane of concrete road in MIDC Tadali is in progress. 50% work is completed.**

**J. Coal Depot :**

**MPCB has provided list of coal depot to Collector Chandrapur for initiating action of shifting.**

## PROGRESS OF IMPLEMENTATION OF CEPI: AURANGABAD

After submission of the draft action plan a detail survey, sector-wise meetings with the Bulk Drugs & Pharmaceuticals, Chemical Units, Breweries, Distilleries, Engineering and Electroplating Units were conducted in the month of September, 2010, the industries were given following instructions :

1. Installation of Solvent Recovery Plant in Bulk Drugs, Pharmaceuticals and Chemical Units and also improvement in efficiency of solvent recovery upto 95%.
2. Identification and segregation of high concentration streams of BOD, COD and TDS.
3. Revamping of old ETPs in prominent industries for control of seepages and leakages and upgradation of existing pollution control systems.

The sector-wise industries have submitted the Time Bound Programme for the above said work. The following industries have already segregated high concentration streams of BOD, COD and TDS.

- 1) M/s. AMRI India Ltd.
- 2) M/s. Ipca Laboratories Ltd.
- 3) M/s. Orchid Chemicals & Pharmaceuticals Ltd.
- 4) M/s. Wockhardt Ltd.
- 5) M/s. Harman Finochem Pvt. Ltd.

All the industries have been instructed by this office to physically join their effluent carrying drainage line to conveyance system to carry the effluent to CETP provided by MIDC. The trial run of CETP, Waluj is in progress. The CETP Waluj has set up a separate treatment facility for the effluent generated from electroplating units. The CETP has also provided units

for removal of heavy metals like Zinc, Lead, Cadmium, etc. and the sludge will be disposed to CHWTSDF at Ranjangaon. The Environmental Clearance for the CETP is awaited till date.

A sector-wise review meeting of industries was called by this office. The Bulk Drugs & Pharmaceuticals and Chemical Units were called on 15/02/2011 to take the review on the action taken regarding –

1. Upgradation work of Solvent Recovery Plant for 95% solvent recovery
2. Action taken for recycle/reduction of waste water volume
3. Isolation of high BOD, COD and TDS streams and
4. Adoption of Cleaner Technology.

M/s. Bajaj Auto Ltd., MIDC Area, Waluj has started using cleaner fuel in the form of LPG by replacing fossil fuel/furnace oil. M/s. Maso Automotive Pvt. Ltd., MIDC Area, Waluj has replaced the oil fired furnaces by cleaner technology in the form of electric heaters. M/s. Skoda, MIDC Area, Shendra has started using eco-friendly paints.

Breweries & Distilleries were called on 17/02/2011 and were directed for optimum utilization of water, reuse/recycle of water, isolation of high TDS and COD streams and improve the efficiency of pollution control systems.

M/s. Millennium Beer Industries Ltd. has submitted that they brought down the Beer to Water Ratio from 1.6 Ltrs to 1.4 Ltrs /Ltr. of Beer by installing Bottle Water Recovery System. M/s. Lilasons Industries Ltd. has replaced the dust collection system by installing new dust collector. M/s. Carlsberg India Pvt. Ltd. has reduced the water consumption from 13 HL/HL of Beer to 6.47 HL/HL of Beer.

The Board has already started the monitoring of V.O.C. and ambient air quality, surface water and ground water in the critically polluted area with the help of M/s. Vinita Labs. from 25<sup>th</sup> February, 2011.

## Progress of implementation of CEPI: Navi Mumbai TTC industrial area

### 1. Reduction in effluent load by way of recycles/ reuse etc.

Name of the industry	Remarks
M/s. SI Group Ltd., D-2, TTC MIDC, Navi Mumbai	Installed Acetone recovery plant thereby reducing effluent quantity at source.
M/s. Sandoz Pvt. Ltd., D 31/32, TTC Navi Mumbai	Effluent in partly is used for gardening. Planning to install RO system for treated effluent used for cooling tower recycling condensate water for boiler. Installed VOC reduction system.
M/s. Amines and Plasticizer Ltd., D-21 MIDC, TTC Navi Mumbai.	Treated effluent is used for cooling tower, vessel washing and gardening. ETP upgrading is proposed.
M/s. Pfizer Ltd., Plot No. 16, TTC Navi Mumbai.	Partly recycling the effluent for gardening.
M/s. Glenmark Pharma, Mahape, Navi Mumbai.	Total treated effluent is used for gardening. Incinerator for BMW is provided.
M/s. Zydus Nicomed, Plot No. -C-4, TTC Navi Mumbai.	Stared recovery organic solvents thereby reducing concentration of the effluent. Separate for high concentration in multiple effect evaporators. Venture scrubber provided.

In addition to this most of the industries have replace NaOH as neutralizing agent. Also scrubber and venture scrubber are provided wherever necessary.

2. Mahanagar Gas Limited: The laying of gas pipe line is in progress. Most of the industries proposed to convert to cleaner fuel and approached MGL. M/s. Mazda Dye Chem and SI group has already started use of cleaner fuel.

3. NMMC has proposed to reuse treated sewage for gardening, construction etc. As per discussion with NMMC authorities today, they are in process of floating tenders to appoint the consultant the aforesaid work.

4. Common Effluent Treatment Plant: CETP authorities are exploring the possibility of installing pre tertiary treatment in order to recycle the some of the effluent. This will reduce the pollution load quantitatively and qualitatively.

RO Navi Mumbai, MPCB, has already conducted meetings in this regards and progress is being monitored regularly.

4. MPCB has arranged awareness campaign regarding Environment at Modern College, Vashi and S. I .E. S, Nerul.

5. MPCB has started monitoring program about CEPI with consultation of M/s. VIMTA Lab, Hydrabad, the agency appointed by CPCB for the monitoring work.

## COMPLIANCE REPORT- CEPI ACTION PLAN- TARAPUR

### Short Term Action Points ( upto 1 year, including continuous activities)

S. No.	Action point	Compliance
1.	Expansion of TEPS-CETP from existing 25 MLD to 37 MLD (Expansion -12MLD)	Deffered due to local villagers opposition. Proposed 25 MLD CETP
2.	Arresting leakage of drainage pipe line	AMC is granted by MIDC
3.	Connection Sump III to CETP	Work has already started and near completion
4.	Identification of Solvent Use & solvent recovery plant to Improve the efficiency of solvent recovery by solvent using industries	Letters were sent to industries using solvents vide ref no. MPCB/ROT/TB-3325 dated 26/11/10 to improve the efficiency of solvent recovery and to conduct solvent audit before 30/12/10 . TIMA has requested to extend this date to another 3 months. Work is under progress
5.	Survey of stack monitoring	Monitoring is under progress
6.	Illegal dumping of hazardous waste	Board has informed CHWTSDF to increase the frequency of collecting of HW and its trasnporation
7.	Massive Tree Plantation (One lacs Trees)	MIDC is carrying out massive tree plantation program on empty/reserved plots, and on boundary of MIDC. Work is under progress

### Long Term Action Points (more than 1 year)

S. No.	Action point	Compliance
1.	Expansion of TEPS CETP from existing 25 MLD to 50 MLD	Master Plan has prepared and Land allotment was done and treatability studies on effluents are going on.
2.	If outlet treated quality is not achieved, advanced technologies such as MBR/RO are to be enforced	After installation of additional CETP, If outlet parameters are not achieved, then,, advanced technology such as MBR/RO will be envisaged
3.	Replacement of RCC drainage by HDPE	Replacement of 6.0 km pipe line is under progress
4.	Replacement of RCC drainage by HDPE	Replacement of 9 km pipe line is under progress
5.	Augmentation of sump no. 1 holding capacity and Augmentation of pumping machinery at sump 1 & 2	Work is under progress.
6.	Extension of pipeline inside Navapur sea	NIO has studied pre and post monsoon studied and report is awaited
7.	Reuse and recycle of treated water by the textile industries	Board sent letter to textile industries
8.	Pursuing matter with Mahanagar Gas limited/ GAIL to make available CNG to MIDC Tarapur	TIMA has already started survey for requirement
9.	Proposal of installation of continuous Ambient Air Quality monitoring under CPCB scheme	Proposal has already submitted

#### Details of Action taken against industries

1. Around 137 Show cause notices were given to various industries for violating the norms of outlet parameters prescribed under Water Act for the period 2010 to till today
2. Bank guarantee Rs. 5.0 lacs was submitted by TEPS CETP during consent renewal in 2009 and been extended to 2010 and 2011