

## NAVI MUMBAI-CEPI ACTION PLAN

### Action Points - CEPI Navi Mumbai (June 2013)

#### A. Short term

Sr. No.	Action Points (including source & mitigation measures)	Responsible Stake Holders	Present Status
1	Uncovered area will be connected to CETP	MIDC CETP MPCB	Some part of TTC Industrial area is not connected to MIDC drainage system due to topography. The work is in progress and MIDC is in process of providing infrastructure of collection of drainage from all parts of MIDC.
2	Performance Evaluation of CETP	CETP MPCB	In order to improve CETP treated water further and to make feasible for recycle.
3	Performance Evaluation of ETPs	Industries	All the major industries are being proposed to improve their treatment system in order to reduce pollutant load at lease by 10%
4	Performance Evaluation of ECS.	Industries	All the major industries are being proposed to improve their ECS in order to reduce pollutant load at lease by 10%
5	Repairs of Internal Roads in MIDC area.	NMMC	There are internal roads of 95 km in MIDC area, most of the roads under improvement in order to limit dust emissions by vehicle transport .

6	Taking possession of drainage pipeline carrying effluent to CETP.	CETP MIDC MPCB as Nodal Agency	Treated effluents of the MIDC area is collected at CETP through MIDC drainage system. Part of system is under possession of MIDC and part under possession of CETP : considering the quick response by CETP official in case of accidental breakages.
7	Replacement of damaged pipeline	MIDC MPCB as Nodal Agency	Some part of effluent carrying pipeline is corroded which may create problem of leakages in future. MIDC has replaced damage pipe line
8	Online display of AAQM data.	TBIA MPCB as Nodal Agency	AAQM is carried out at three locations; however there are three automatic online display centers at three stations viz Fire Brigade Compound Vashi, Airoli Fire Station and Turbhe MSW Site (yet to connect website).
9	Inventorying of Hazardous Air Pollutant emitting units and installation of leak detection and repair (LDAR) in case of pesticide and bulk drug manufacturing units.	MPCB/Individual industry	Inventory of the hazardous air pollutant emitting industries will be prepared by conducting survey. Some units are engaged in mfg. of pesticides and bulk drugs. These units will be proposed to install leak detection system. It's continuous process.
10	Monitoring of the Industries for compliance of CEPI norms	MPCB/Individual industry	Point wise periodical review taken.

11	Recovery of Solvent by solvent using units.	Industries	Bulk Drugs units are using solvents in their process and generate waste solvents as by-product. At present they are vending waste solvents to another party. However, they will be instructed to install their own facility for recovery of the solvents, wherever possible.
12	Health Impact Assessment Study.	DISH District Health Officer MPCB	DISH, District Health Officer are being requested to give information about health in the industrial area.
13	Monitoring of ground water at MSW/TSD site.	MPCB	Monitoring at CHWTSD site is already going on. NMMC will be asked to provide pizometric holes accordingly monitoring will be started.
14	Improvements in CETP.	CETP	CETP is adequate. However, they have decided to adopt latest Environment friendly advanced technology including pre-tertiary treatment facilities in order to improve quality of effluent furthermore and to explore possibilities for reuse of the treated effluent.

<b>B. Long Term Action Points</b>			
<b>Sr. No.</b>	<b>Action Points (including source &amp; mitigation measures)</b>	<b>Responsible Stake Holders</b>	<b>Present Status</b>
<b>1</b>	Improvements in CETP.	CETP	CETP is adequate and generally meeting with standards. However, they have decided to adopt latest Environment friendly advanced technology including pre-tertiary treatment facilities in order to improve quality of effluent furthermore and to explore possibilities for reuse of the treated effluent.
<b>2</b>	Up-gradation of individual ETPs	Industries	Major polluting industries.
<b>3</b>	Change in fuel	Industries	At present most of the industries are using fuels like FO, Coal, etc, which create huge emission. The Mahanagar gas co. is laying down gas pipeline in TTC Area which is commissioned at some places. All the industries will be proposed to use natural gas after completion of the pipeline work at present majority of large/medium industries using natural gas.

4	Improvement in ECS	Industries	All the air polluting industries are being proposed to improve their ECS by increasing efficiency of their scrubbers and changing to eco-friendly fuels
5	Installation of VOC analyzer	Industries	All the pesticides and bulk mfg. units are being proposed to install VOC analyzer including alarm system
6	To provide proper sewerage system for slum pockets & connect the sewage to STPs and use of treated sewage for gardening and industrial purpose.	NMMC	Navi Mumbai has provided 8 STPs at various places where sewage from the township is treated. (260 MLD) the total capacity STP's 464 MLD However, the total generation is 260 MLD . Higher capacity STPs are provided to cater need of future expansion of city . However, the slum pockets are covered where municipal drainage system, NMMC is being proposed to cover the slum pockets under municipal drainage system.
7	Installation of CAAQM Stations with digital display on screen.	TBIA	CAAQMS stations are operating at three stations viz Fire Brigade Compound Vashi, Airoli Fire Station and Turbhe MSW Site (yet to connect website).
8	Set up of New AAQM Station	TBIA and MPCB	At present there are three AAQM Stations established by MPCB (Viz D.Y.Patil, Nerul, TBIA Rabale, MPCB Central Lab Mahape)

9	Development of green belt & garden.	MIDC/TBIA	<p>It is continuous process. TBIA have already planted more than 1.5 million trees since 1986 in MIDC and as well as outside area within the Municipal limit.</p> <p>Also NMMC, MIDC, Industries as well as NGOs are taking lead for plantation and green belt development.</p>
10	Scientific Disposal of MSW. (500 MT/D)	NMMC	<p>Certain improvements at MSW disposal site i.e. installation of leachate treatment plant, waste to compost and RDF projects etc. are completed and operating satisfactory.</p>
11	Minimization of waste by the industries	Industries	<p>Some industries have adopted cleaner technology. Other major units are being proposed to minimize waste i.e. textile industries are being proposed to use ecofriendly chemicals so as to reduce process waste. Coal using industries are being proposed to use eco-friendly fuels. Overall the major industries are being proposed to reduce their waste atleast by10%.</p>

12	Vehicle pollution and traffic management plan	NMMC RTO MIDC MPCB	NMMC and MIDC have been directed to provide good roads in the area. Most of the public transport vehicles, taxies, Auto Rickshaw running on natural gas. RTO will be informed for synchronizing traffic line strategy for phase out old vehicles.
13	Reuse of Treated Sewage.	NMMC MPCB	NMMC has 8 STPs for treatment of sewage from residential areas. About 15 MLD out 40 MLD treated Sewage of Vashi STP is used by CIDCO for gardening and construction purpose.
14	Awareness program	MPCB TBIA	Awareness program will be conducted at various schools, colleges, public places, etc. through road shows, posters, banners, hand bills and various programs etc.