

**Compliance report of CEPI Action Plan
Dombivali
As on 22/01/2015**



MAHARASHTRA POLLUTION CONTROL BOARD
www.mpcb.gov.in

Why Dombivali Cluster comes under CEPI?		
Sr.No	Points	Authority
1.	No Buffer Zone between MIDC & Residential Colony. Residential area developed between two MIDC Phase.	MIDC
2.	CETP's are not complied.	MPCB/CETP
3.	Use of High Polluted Petro Coke as a fuel by industry, no proper air pollution control system.	Industry /MPCB
4.	Individual Industries effluent treatment plants are not adequate	Industry /MPCB
5.	Effluent carrying line from industry to CETP are broken / damaged.	MIDC
6.	No Treated effluent Disposal line from CETP to Creak	MIDC
7.	No Sewage treatment plant for the sewage generated from residential colony developed by MIDC.	MIDC
8.	Non removal of Sludge from MIDC sump	MIDC
9.	Illegal & unscientific dumping of municipal solid waste by Grampanchayat's in industrial area as well as in residential area	Grampanchayat / Jilla Parishad / MIDC /MMRDA
10.	No adequate Sewage treatment plant for the sewage generated from KDMC area.	KDMC
11.	Un-Scientific Disposal of Municipal Solid Waste in KDMC area.	KDMC

Parameters	CEPI SCORE	Average CEPI SCORE
Water	63.5	
Air	66.0	78.41
Land	57.5	

**IMPLEMENTATION OF ACTION PLAN
FOR DOMBIVALI CLUSTER**

Short Term Action Plan

S.N	Action Point	Compliance
1.	Performance evaluation of water pollution control measures in the industrial units:-	<ul style="list-style-type: none"> >Survey of industrial unit is carried out in 2010. <i>How many? Is it 345</i> >Accordingly Board had issued 32 closer direction & 26 show cause notice to industry in 2010. >As per directions industry has complied. > Regular compliance is monitored by Board Officials.
2(a)	Performance evaluation of Both CETPs :-	<ul style="list-style-type: none"> >CETP has carried out performance evaluation study. >On the basis of analysis report and visit, The Board has issued directions to both CETP on 24.05.2010 for the up gradation. >Accordingly both CETP has carried out up gradation of CETP.

S.No.	Action Point	Compliance
2(b).	Optimization of both CETPs:-	<ul style="list-style-type: none"> >Optimization of CETP is not possible as the incoming load to CETP varies due to different type of industries. >For the smooth functioning of CETP following partly automation system installed by both CETPs:- >Installation of control panel for better operational management. > Microscope camera attachment procured for better identification of microbial culture. > Online pH & flow meter installed at the outlet. > Installed actuator valves for proper sludge removal from primary & secondary clarifiers. >D.G. Set installed to take care of operations especially during power cut-off on weekly off.

S.N	Action Point	Compliance	
3	Taking possession of drainage pipeline carrying effluent to CETP by CETPs:-	<ul style="list-style-type: none"> Presently MIDC authority maintain the network of effluent carrying pipeline. Also the replacement work of old cement concrete pipeline with HDPE pipeline is carried out by MIDC. 	Y possession not given.
4.	Providing tertiary treatment facility and advance waste water treatment :-	<ul style="list-style-type: none"> The up gradation of DBESA CETP (Capacity—16.00MLD) is completed and further up gradation if any required is being considered. The up gradation of DCETP (Capacity—1.5 MLD) is completed and further up gradation if any required is being considered. 	<ul style="list-style-type: none"> DBESA CETP—Amount spent Rs. 400.00 lakhs. DCETP— Amount spent Rs. 39.00 lakhs

S. N	Action Point	Compliance	Amount Spent
4	Status of up gradation work of CETP	<ul style="list-style-type: none"> D CETP:- (1.5 MLD) Additional Hyca-Reactor for bio- tower "A" installed. Additional two blowers installed for bio-towers. On line pH monitors installed. Civil work of launders carried out. Central control panels with indicators installed for better operational management. Microscope camera attachment procured for better identification of microbial culture. Converted equalization tank as a 2nd stage bio-reactor. D.G. Set installed to take care of operations especially during powercut-off on Friday. 	DCETP—Amount spent Rs. 39.00 lakhs.

S.N	Action Point	Compliance	Amount Spent
4	Status of upgradation of DBESA CETP :-	<ul style="list-style-type: none"> > Installed 10 HP 5 Nos. of new mixers in equalization tank for better equalization. > Installed control panel for better operational management. > Microscope camera attachment procured for better identification of microbial culture. > Online pH meter installed at the outlet. > New Bio reactor 4 nos. commissioned. > 12 Triton Aerators commissioned. > Installed actuator valves for proper sludge removal from primary & secondary clarifiers. > D.G. Set procured to take care of operations specially during power cut-off on Friday. 	<ul style="list-style-type: none"> > DBESA CETP- DBESA CETP- Amount spent Rs. 400.00 lakhs.

S.N.	Action Point	Compliance
5.	Repairing of leakages of Effluent carrying pipeline & replacement of the same:-	<ul style="list-style-type: none"> > Length of internal effluent carrying pipeline is 30.40 KM. MIDC has replaced same with HDPE line. > Total no. of chambers is 290. Out of 290 chambers ,265 new chambers are constructed by MIDC.
6.	Laying of closed pipeline for disposal of treated effluent from CETPs up to Creek:-	<ul style="list-style-type: none"> > Local body KDMC has issued NOC for laying pipeline. > From DBESA CETP to Creek-(0-1500 meter)- > MIDC has laid down close treated effluent pipeline of 1.5 KM at present. Remaining work is in process. > From 1500 meter to 4650 meter:- For this section land acquisition is under process. Once the land acquisition is completed work will be taken up.

CSK
delay - no project

S.N	Action Point	Compliance
7.	VOCs Monitoring -	<ul style="list-style-type: none"> > VOC monitoring carried in 2011 & 2014 in MIDC Dombivalli area & at residential area at different locations along with CETP on behalf of Board.
8.	Lifting of effluent passed into nalla due to any accident or leakage or chamber overflow into CETP by providing bandhara on the nalla near CETPs -	<ul style="list-style-type: none"> > Length of internal effluent carrying pipeline is 30.40 KM. MIDC has replaced same with HDPE line. > Total no. of chambers is 290. Out of 290 chambers ,265 new chambers are constructed by MIDC. > As MIDC has completed above work there is no need of bandhara.

*Results of monitoring
Status of VOCs*

OK

S.N	Action Point	Compliance
9 (a).	Provision of continuous power supply to CETPs:-	> DCETP & DBESA CETP has installed D.G. sets.
9 (b)	Provision of continuous power supply to Pumping station:-	> MIDC has installed D.G. set.
9 (c)	Provision of continuous power supply to STP & Pumping station:-	> KDMC has installed DG set for their existing 2 & new 6 STP's and pumping stations.

S.N	Action Point	Compliance
10.	Performance evaluation of air pollution control measures in the industrial units:-	<ul style="list-style-type: none"> > Survey of industrial unit is carried out in 2010. > Accordingly Board had issued 32 closer direction & 26 show cause notice to industry in 2010. > As per directions industry has complied. > Regular compliance is monitored by Board Officials.
11.	Inventorying of units carrying out reactions in open vessels and Ensuring closed operations with adequate APCMs:-	<ul style="list-style-type: none"> > MPCB carried out survey of industrial unit in MIDC area. No such unit observed during the survey.
12.	Inventorying of Hazardous Air Pollutant emitting units And Installation of Leak Detection and Repair (LDAR) in case of pesticide and bulk drug manufacturing units:-	<ul style="list-style-type: none"> > LDAR is installed by one pesticide & one bulk drug unit.

How many? Compliance over last 3 years

Any new ll industry

S.N	Action Point	Compliance
13.	Provision of new AAQM station :-	<ul style="list-style-type: none"> > Under SAMP/ NAMP two AAQM station @ DCETP MIDC Phase-II & MIDC Office, Phase-I Dombivali commissioned. > Both are in operations from May 2012. > Stations are operated by M/s. Smt. Chandibai Himathmal Mansukhani College, Ulhasnagar.
14.	Installation of CAAQM Stations :-	<ul style="list-style-type: none"> > Work is in progress. > Proposal submitted to Head Quarter.
15.	Online Display of AQQM data	<ul style="list-style-type: none"> > Work is in progress.

OK

Delay

Average AAQM Report												
Parameter	So2			NOx			RSPM			SPM		
Standards ug/m3	120			120			150			500		
	Min	Max	Avg	Min	Max	Avg	Min	Max	Avg	Min	Max	Avg
Location :- MIDC Office, Dombivali. Period:- July-Dec 2012. (49 Samples)												
Readings	4	83	42.92	15	141	64.76	25	158	88.47	66	364	131.16
Location :- DCETP, MIDC Phase-II, Dombivali. Period:- May-Dec 2012. (66 Samples)												
Readings	28	95	58.20	51	266	103.74	67	298	131.42	88	349	158.33

S.N	Action Point	Compliance
16.	Repairing of internal roads & proper maintenance of same:-	> Cement roads are constructed & regular maintenance is carried by MIDC.
17.	Inventory of solvent using industry & solvent recovery units:-	> Used solvent is sent for recovery by individual industries which are few in number.
18.	Ground water monitoring:-	> MPCB has started ground water monitoring at 3 location in and surrounding MIDC area. > Also above locations brought under the purview of SWMP.
19.	Health Impact study:-	> Large industries are carried out the studies.

OK. more details in answer spent annually

Groundwater quality over the last 3 years. 5 locations?? 3 locations. env. H.

S.N.	Action Point	Compliance
20.	Proper storage & regular disposal of HW & solid waste:-	<ul style="list-style-type: none"> > All industries are member of CHWTSDF & regular collection and transportation is done by CHWTSDF, Taloja. > Also regular monitoring carried out by MPCB.
21 & 22.	Awareness Program & Monitoring Vision:-	<ul style="list-style-type: none"> > Regular Review meeting are held for up gradation work of CETP by Board Officials. > Tree plantation program is undertaken by MIDC & industrial associations. > Propose to organize workshop on pesticide industry.

Long Term Action plan

S.N	Action Point	Compliance
1.	Amalgamation of CETP Textile & CETP Chemical and upgradation of CETP Textile:-	<ul style="list-style-type: none"> > Amalgamation of CETP will not be appropriate as both CETP governed by separate Industrial association. > Presently there is no consideration by both the CETP for amalgamation. > But the load coming from chemical industries of high COD is mixed with huge quantity of low COD from textile industries in common sump in order to reduce COD load by dilution factor and then distributed to both CETP for further treatment.
2.	Recycling of treated effluent:-	<ul style="list-style-type: none"> > Individual industries are not in favor of recycling of treated effluent nor by CETP. 98 % of the total industry falls under SSI. > Two paper industry recycling total treated effluent in process & one paper industry using 70 % treated effluent in process. > Also one large & one medium industry reuse some part of their treated effluent.

60c

→ Effluent should be made to reuse treated effluent

S.N	Action Point	Compliance
3.	Providing underground drainage network for collection of sewage from remote area/ Grampanchayat area:-	<ul style="list-style-type: none"> > No progress is observed in this matter from MIDC / Grampanchayat. > Government has to take Initiative. > Zilla Parashid has to take Initiative.

Deleg

S. N	Action Point	Compliance
4 a.	Providing STP for domestic effluent of residential colony developed by MIDC. Treated water can be used for gardening.	> MPCB has written letter to MIDC, but till MIDC has not given any reply. But same is under consideration by MIDC.
4 b.	Providing STP for KDMC area:-	<ul style="list-style-type: none"> > KDMC has started work of 6 new STP of 123 MLD. > Out of 6 STP work 4 STP's completed and are in commissioning stage. > Remaining 2 STP's 90 % work is completed, further work is in progress.
5.	Provision of continuous power supply to STP & their pumping station:-	> KDMC has Installed DG set for their new STP & Pumping stations.

Deleg

Deleg

S.N	Action Point	Compliance
6.	Introduction of Cleaner fuel like CNG/LPG:-	<ul style="list-style-type: none"> > Work of installation of Gas pipe line by Mahanagar Gas authority in Dombivali MIDC area is in progress. > As informed by M/s. Mahanagar Gas Authority gas will be available in Dombivali MIDC Area by Dec. 2013. <i>9</i>
7.	The vehicles in this area shall use clean fuel as LPG/ CNG:-	<ul style="list-style-type: none"> > Under RTO, Kalyan 6673 Riksha & Taxi and 1719 LMV Car are converted on LPG fuel. CNG is not available in this area.
8.	Development of Green belt & Garden:-	<ul style="list-style-type: none"> > No progress. However follow up is on with industries, KAMA & MIDC. > Some industries have planted trees in surrounding factory area.

later update reqd

OK

reqd

S. N	Action Point	Compliance
9 a.	Illegal & unscientific dumping of municipal solid waste by Grampanchayat's in industrial area as well as in residential area :-	<ul style="list-style-type: none"> > This matter is related with Grampanchayat/MIDC. Also KAMA has filed a PIL against Grampanchayat & others. > No progress by concern agencies. > Zilla Parishad has to take initiative. > Recently Collector Office, Thane has taken initiative and directed MIDC to prepare action plan.
9 b.	Scientific treatment & disposal of MSW- KDMC:-	<ul style="list-style-type: none"> > KDMC has obtained Authorisation from MPCB for new site at Umbarde, Kalyan. > Till no further progress. > Board is forfeited BG of Rs. 5.00/- lacks of KDMC for not starting work of new site

reqd

reqd

S. N	Pending Issue	Authority
1.	Treated effluent Disposal line from CETP to Creak	> MIDC
2.	Illegal & unscientific dumping of municipal solid waste by Grampanchayat's in industrial area as well as in residential area	> Grampanchayat / Jilla Parishad / MIDC / MMRDA
3.	Sewage treatment plant for the sewage generated from residential colony developed by MIDC.	> MIDC
4.	Scientific Disposal of Municipal Solid Waste in KDMC area.	> KDMC

EPI	In Dombivli	Score for Dombivli 2009	Present score of Dombivli	Remarks
A Pollutants	Bulk Drugs, Pesticides & Dyes Industries, hence A=1-4 >2 R 17 + 100R 54 hence A2= 5	A= A1x A2 4 x 5=20	A= A1x A2 4x 5=20	A- Based on types & scale of industries, difficult to shift industries from Dombivli hence remain same.
B Pathway	Leakages in effluent carrying pipeline, disposal pipeline upto creek, MSW illegal dumping, etc.	B= B1+B2+B3 13+0+0=13	B= B1+B2+B3 7.0+0+0. B=7.0	MIDC has repaired & replaced effluent pipeline, hence 6 points less. 7 points for disposal pipeline & MSW unscientific dumping etc.

EPI	In Dombivli	Score for Dombivli 2009	Present Score of Dombivli	Remarks
C Receptor	Dombivli population 6 Lacks within 2 KM radius	C= (C1 x C2) + C3 (5x5) + 5 C=30	C= (C1 x C2) + C3 (5x5) + 5 C=30	C- Growth of population may be increased & difficult to shift, hence remain same.
D High Risk Element	LSI- Adequate SSI-Partly adequate CETP=-Inadequate	D=15	D=0	LSI- Adequate SSI-Partly adequate CETP=Adequate
	A+B+C+D =	CEPI=78	CEPI=57	After long term implementation, CEPI will be 50.0