

DOMBIVALI –CEPI ACTION PLAN

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.➤ 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 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.
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 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 Friday.
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.

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. Amount spent Rs. 400.00 lakhs. ➤ The up gradation of DCETP (Capacity—1.5 MLD) is completed and further up gradation if any required is being considered. ➤ Amount spent Rs. 39.00 lakhs. 	
4	Status of up gradation work of CETP	<ul style="list-style-type: none"> ➤ D CETP:- (1.5 MLD) ➤ Additional Hyca-Reacter 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. ➤ D.G. Set installed to take care of operations especially during power cut-off on Friday. ➤ Work of installation of Monobelt filter Press is in progress and will be completed by the end of June 2013. ➤ Also DPR for up gradation & expansion is under preparation from 1.5 MLD to 2.0 MLD. 	<p>DCETP- Amount spent Rs. 39.00 lakhs.</p> <p>Rs. 80.00 lakhs</p>
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. ➤ Installation of control panel for better operational management. ➤ Microscope camera attachment procured for better identification of microbial culture. ➤ Online pH meter installed at inlet & 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. ➤ Proposal submitted to MIDC for the treatment of 4.50 MLD domestic effluent generated from MIDC residential area in existing CETP. ➤ Also DPR for expansion is under preparation for 4.00 MLD. 	<ul style="list-style-type: none"> ➤ DBESA CETP-DBESA CETP-Amount spent Rs. 400.00 lakhs.

Average Report of CETP

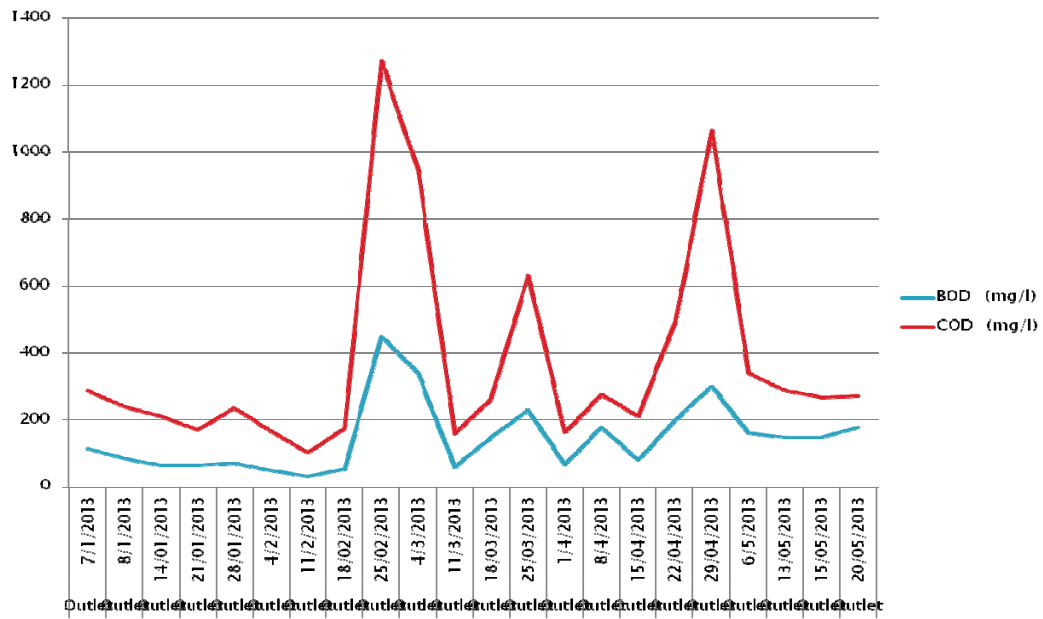
DBESA CETP Phase-I

	Standards	2010	2011	2012	2013
pH	5.5-9	7.41	7.51	7.5	7.74
BOD	100 mg/lit	159.16	294.47	124.70	145.34
COD	250 mg/lit	439.33	797.22	325.63	336

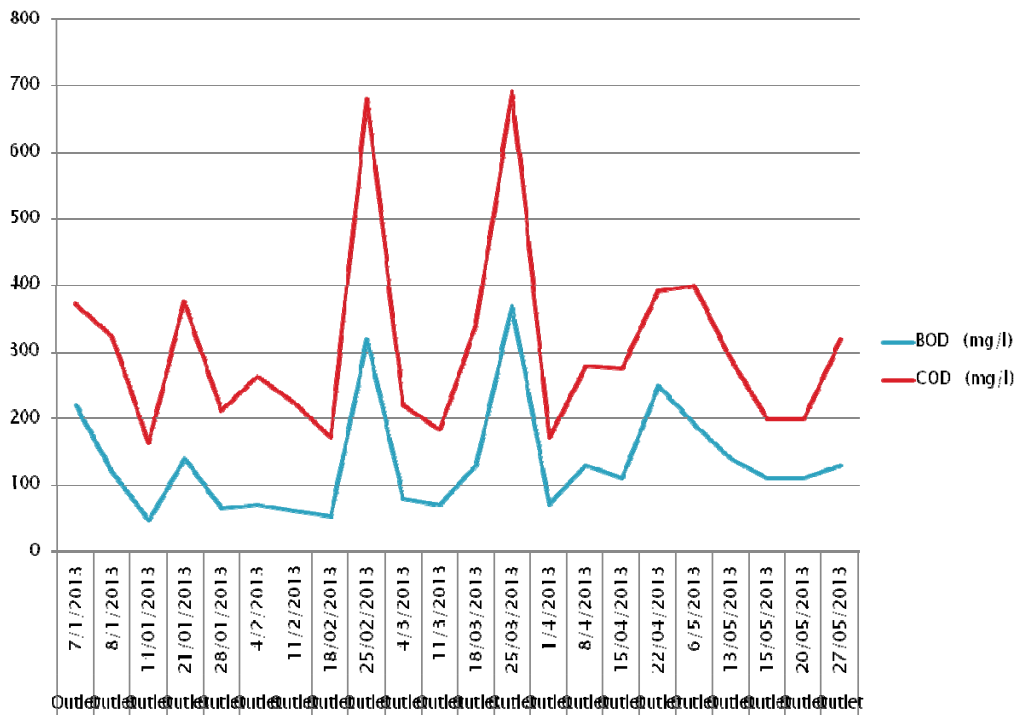
Dombivali CETP Phase-II

		2010	2011	2012	2013
pH	5.5-9	7.31	7.02	7.01	7.37
BOD	100 mg/lit	265.88	233.65	127.15	175.16
COD	250 mg/lit	804.31	619.48	328.70	428.04

Dombivali CETP, Ph-II



DBESA CETP, Ph-I



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. ➤ Recently MIDC removed sludge from MIDC sump.
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)- ➤ Tenders finalized and work order will be issued after monsoon. ➤ From DCETP to DBESA CETP proposal prepared by local MIDC office and submitted their Head Quarters for approval. ➤ 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.
7.	VOCs Monitoring :-	<ul style="list-style-type: none"> ➤ VOC monitoring carried by M/s. SGS Pvt. Ltd., Chennai on 23& 24.02.2011 in MIDC Dombivali area at different locations such as within industries, at 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.
9 (a).	Provision of continuous power supply to CETPs:-	<ul style="list-style-type: none"> ➤ DCETP installed D.G. set. ➤ Whenever there is power shut down DBESA CETP procured DG Set.
9 (b)	Provision of continuous power supply to Pumping station:-	<ul style="list-style-type: none"> ➤ MIDC has installed D.G. set.

9 (c)	Provision of continuous power supply to STP & Pumping station:-	➤ KDMC has installed DG set for their new 6 STP and pumping stations.
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:-	➤ 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:-	LDR is installed by one pesticide & one bulk drug unit.
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-Dombivali commissioned. ➤ Both are in operations from May 2012. ➤ Stations run 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	➤ Work is in progress.

Average AAQM Report

Parameter	So2			NOx			RSPM			SPM		
Standards ug/m3												
	Min	Max	Avg	Min	Max	Avg	Min	Max	Avg	Min	Max	Avg
Location :- MIDC Office, Dombivali. Period:- Jan-May 2013. (31 Samples)												
Readings	15	63	26.30	39	85	54.99	58	120	81.39	72	143	98.55
Location :- DCETP, MIDC, Phase-II, Dombivali. Period:- Jan-May 2013 (31 Samples)												
Readings	18	68	31.83	28	107	65.73	46	149	95.24	61	174	113.68

S.N	Action Point	Compliance
16.	Repairing of internal roads & proper maintenance of same:-	➤ Cement roads are constructed & regular maintainance 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:-	<ul style="list-style-type: none"> ➤ MPCB started ground water monitoring at 3 location in and surrounding MIDC area. ➤ Also above locations brought under the purview of SWMP.

Average Ground water report -2012			
Parameter	Well opp. KAMA Office Dombivali	Well at Pimpaleshwar, Dombivali	Well water near M/s Altra Pure, Dombivali
pH	7.3	7.55	7.4
B.O.D 3 days 27°C	3.4	5.3	3.5
C.O.D	20.0	34.0	24
SS	10.0	17.00	16

S.N	Action Point	Compliance
19.	Health Impact study:-	<ul style="list-style-type: none"> ➤ Large industries are carrying out the studies.
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 Programme & Monitoring Vision:-	<ul style="list-style-type: none"> ➤ Regular Review meeting are held for up gradation work of CETP by Board Officials. ➤ Tree plantation programme is undertaken by MIDC & industrial associations. ➤ MPCB recently organized a seminar on zero discharge from textile industry. ➤ MPCB recently organized a seminar on Emission Trading Scheme on 6th April 2013. ➤ MPC Board, Kalyan has conducted meeting for the progress of Dombivali Action plan with stake holders on 4th April 2013.

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.
3.	Providing underground drainage network for collection of sewage from remote area/ Grampanchyat 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.
4 a.	Providing STP for domestic effluent of residential colony developed by MIDC. Treated water can be used for gardening.	<ul style="list-style-type: none"> ➤ MPCB has written letter to MIDC, but till MIDC has not given any reply. And is under consideration by MIDC. ➤ Proposal submitted by DBESA CETP to MIDC for the treatment of 4.50 MLD domestic effluent generated from MIDC residential area in their existing CETP.
4 b.	Providing STP for KDMC area:-	<ul style="list-style-type: none"> ➤ KDMC has started work of 6 new STP and @ 123 MLD. ➤ Out of 6 STP work 4 STP's work completed and are in commissioning stage. Trial run of STP are in progress. ➤ Remaining 2 STP's 90 % work is completed, further work is in progress will be completed by Sep. 2013.
5.	Provision of continuous power supply to STP & their pumping station:-	<ul style="list-style-type: none"> ➤ KDMC has installed DG set for their new STP & Pumping stations.

6.	Introduction of Cleaner fuel like CNG/LPG:-	➤ Work of installation of Gas pipe line by Mahanagar Gas authority in Dombivali MIDC area. Phase-I is completed, Phase-II work is in progress & gas shall be supplied by 2013.
7.	The vehicles in this area shall use clean fuel as LPG/ CNG:-	➤ 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.
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. ➤ MIDC has taken initiative for providing land for scientific disposal of MSW. Proposal sent to their HQ. ➤ Zilla Parashid has to take initiative.
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 Lacks from KDMC for not starting work of new site. New BG of Rs. 10.00 is submitted by KDMC.

Estimated Cost / Incurred cost (Lakhs)

	MPCB			CETP		MIDC			Local Body	
	AAQM	CAAQM	VOC	DBESA	DCETP	Internal network	Disposal line	DG Set	STP	MSW
Total Expenditure	Rs. 35.07	Rs. 105.0	Rs. 1.5	Rs. 650 + Rs. 7.87 (DG Set)	Rs. 30.0 Rs. 5.5 (DG set)	Rs. 308.0	Rs. 3814.0	Rs. 20.0	Rs. 4700	Rs. 4375
Expenditure used for	Rs. 8.72	----	Rs. 1.5	Rs. 340 + Rs. 7.87	Rs. 30.0 +Rs. 5.5	Rs. 140.0	-----	Rs. 20.0	Rs. 2200	---

S.N	Pending Issue	Authority	
1.	Treated effluent disposal line from CETP to Creek.	MIDC	
2.	Required improvement in the network of effluent carrying pipeline & Chambers	MIDC	
3.	Illegal & unscientific dumping of MSW by Grampanchayat's in industrial area as well as in residential area.	Grampanchayat/ Zilla Parishad/MIDC/ MMRDA.	
4.	Sewage Treatment Plant for the sewage generated from residential colony (Milap, Sudharshan Nagar) developed by MIDC.	MIDC	
5.	Scientific disposal of Municipal Solid Waste in KDMC area.	KDMC	

Regional Office, MPC Board Kalyan has conducted meeting for the progress of Dombivali Action plan with stake holders on 4th April 2013.

For the meeting representatives of MIDC, KDMC, KAMA, Both CETP, Mahanagar Gas, RTO, Chandibai College are present.

MIDC representative inform that the work of pipeline is under progress. Tender work is completed work order will be issued shortly. Sludge of the sump is removed from the sump, proposal from both CETP's received for the treatment of domestic effluent generated from residential MIDC area. Also MIDC is ready to provide land to develop site for the scientific disposal of MSW generated from surrounding village.

DBESA CETP, Ph-I representative informed that Proposal submitted to MIDC for the treatment of 4.50 MLD domestic effluent generated from MIDC residential area in existing CETP. Also DPR for expansion is under preparation for 4.00 MLD.

- DCETP, Ph-II representative informed that Work of installation of Monobelt filter Press is in progress, also DPR for up gradation & expansion is under preparation from 1.5 MLD to 2.0 MLD.

Mahanagar Gas representative informed that laying of pipeline in Ph-I has completed and work of Ph-II is under progress and gas will be supply to industries up to Dec 2013.

KDMC representative informed that 4 STPs are commissioned, work of 2 STPs are under progress.