

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



**MAHARASHTRA POLLUTION CONTROL BOARD**  
[www.mpcb.gov.in](http://www.mpcb.gov.in)

**Comprehensive Environmental  
Pollution Index ( CEPI)**

- For Water Environment:

A1	A2	A	B1	B2	B3	B	C1	C2	C3	C	D
5.0	15.0	38.0	10.0	10.0	10.0	30.0	5.0	0.0	15.0	15.0	15.0

- **Water CEPI = 56**
- $A = A1 \times A2$ , A1 : Presence of Toxin, A2: Scale of Industrial Activities
- $B = B1+B2+B3$  B1 Pollution Concentratuion, B2 Impact on People , B3 Impact on Ecological Features .
- $C = C1 \times C2 + C3$  , Where C1 = Potential Affected Population C2= Level of Exposure, C3=Risk to Sensitive Receptor .
- D= Additional High Risk Element.
- Target to reduce A1,B1,C2 & D to reduce over all CEPI index.

## Comprehensive Environmental Pollution Index ( CEPI)

- For Air Environment:

A1	A2	A	B1	B2	B3	B	C1	C2	C3	C	D
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- Air CEPI = 60.75
- A= A1 x A2 , A1 : Presence of Toxin, A2: Scale of Industrial Activities
- B= B1+B2+B3 B1 Pollution Concentratuion, B2 Impact on People , B3 Impact on Ecological Features .
- C= C1 x C2 +C3 , Where C1 = Potential Affected Population C2= Level of Exposure, C3=Risk to Sensitive Receptor .
- D= Additional High Risk Element.

## Comprehensive Environmental Pollution Index ( CEPI)

- For Land Environment:

	A1	A2	A	B1	B2	B3	B	C1	C2	C3	C	D
Before ST	3.0	5.0	15.0	7.0	3.0	3.0	13.0	5.0	1.5	0.0	7.5	15.0
After ST	2.5	5.0	12.5	7.0	3.0	3.0	13.00	5.0	1.5	0.0	7.5	15.0

- Land CEPI = 51.25
- A= A1 x A2 , A1 : Presence of Toxin, A2: Scale of Industrial Activities
- B= B1+B2+B3 B1: Pollution Concentration, B2 Impact on People , B3 Impact on Eco-geological Features .
- C= C1 x C2 +C3 , Where C1 = Potential Affected Population C2= Level of Exposure, C3=Risk to Sensitive Receptor .
- 0= Additional High Risk Element.

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

Sr. No.	Action point	Compliance
1.	Expansion of TEPS-CETP from existing 25 MLD to 37 MLD (Expansion - 12MLD)	<ul style="list-style-type: none"> <li>•Deferred due to local villager's opposition.</li> <li>•Proposed 50 MLD CETP to which Env. Clearance is awaited.</li> </ul>
2.	Arresting leakage of drainage pipe line	<ul style="list-style-type: none"> <li>•AMC is granted by MIDC.</li> <li>•The leakages in pipe line are arrested.</li> <li>•Any incidental choke up in collection systems.</li> <li>•Manholes and chambers are attended immediately though AMC.</li> <li>• Though the leakages are arrested the effluent carrying line from Hotel Contesa to TEPS CETP the chambers are overflow near Hotel Contesa and near M/s Omega Calours D- 21/2/3 MIOC Tarapur.</li> <li>-Sump No II is fill some times overflowing .</li> </ul>
3.	Connection Sump III to CETP	<ul style="list-style-type: none"> <li>•Pipe line work has completed</li> </ul>

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

4.	Identification of Solvent Use & solvent recovery plant to improve the efficiency of solvent recovery by solvent using industries	<ul style="list-style-type: none"> <li>•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.</li> <li>•Most of the industries have conducted solvent audit &amp; submitted report to Regional Office, Thane.</li> <li>•SRO Tarapur has conducted a work shop on Solvent management and Recovery on dated 28/04/11.</li> </ul>
5.	Survey of stack monitoring	<ul style="list-style-type: none"> <li>•Coal fired boiler Stack monitoring work is completed.</li> </ul>

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

6.	Illegal dumping of hazardous waste	<ul style="list-style-type: none"> <li>• Board has informed CHWTSDF to increase the frequency of collecting of HW and its transportation.</li> <li>• Illegal disposal of HW has been forwarded for action to RO Thane.</li> </ul>
7.	Massive Tree Plantation (One lacs Trees)	<ul style="list-style-type: none"> <li>• MIDC is carrying out massive tree plantation program on empty/ reserved plots, and on boundary of MIDC.</li> <li>• 4500 nos of trees has been distributed by MIDC to TIMA,</li> <li>• MIDC has directed TEPS-CETP to plant 10000 nos of trees during 2011 monsoon period.</li> </ul>

**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	<ul style="list-style-type: none"> <li>• MIDC has allotted plot measuring 85000 m2 from plot no. OS 30 to M/s TEPS CETP for expansion of CETP.</li> <li>• The existing trees at this allotted plot have been removed.</li> <li>• Letter of intention (LOI) for 37.5 MLD CETP expansion has been awarded to M/s Ramky Envira Engineers Ltd., vide TEPS letter dated 19/06/2012. Environment Clearance conditionally approved by GoM. Construction Work is started</li> </ul>

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

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 in C, E, G and F zone is under progress and will be completed by 2011. Now work is completed.
4.	Replacement of RCC drainage by HDPE	•Replacement of 9 km pipe line is under progress.

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

5.	Augmentation of sump no. 1 holding capacity and Augmentation of pumping machinery at sump 1 & 2	•The location of plot for expansion of CETP is changed. Now Plot is allotted OS-30, MIDC Tarapur for 50 MLD expansion of CETP  •As such proposal is deleted and augmentation of pumping capacity at sump no. 1 & 2 is under process. (As reported by Dy. Engineer MIDC vide their letter dated 24.05.2011. Scan copy enclosed.)
6.	Extension of pipeline inside Navapur sea	•NIO has studied pre and post monsoon studied and report is ready & report is received by MIDC. work is allotted to agency but work is not yet started. (As reported by MIDC official)

Long Term Action Points (more than 1 year):		
7.	Reuse and recycle of treated water by the textile industries	<ul style="list-style-type: none"> <li>-Board had sent letter to textile industries vide MPCB/ROT/TB/ 324 dated 26/11/2010 to 38 nos textile industries.</li> <li>-4 nos of industries has started and using recycling 50 % of their treated effluent.</li> <li>- Two No.of Textile industries has provided zero discharge system.</li> </ul>
8.	Pursuing matter with Mahanagar Gas limited/ GAIL to make available CNG to MIDC Tarapur	-Laying of pipeline from Vikramgad to MIDC is completed and allied work is under progress.

9.	Proposal of installation of continuous Ambient Air Quality monitoring under CPCB scheme	<ul style="list-style-type: none"> <li>-Proposal has already submitted.</li> <li>- M/s JSW Steel Ltd has installed three Nos of CAAQMS monitoring station at above SRO MPCB Torapur Terrace , residential colony railway bridge and JSW Plant</li> </ul>
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## CEPI After Implementation of Action Plan ( Water )

- Short Term:

	A1	A2	A	B1	B2	B3	B	C1	C2	C3	C	D
After ST	2.0	5.0	10.0	6.0	0.0	2.0	8.0	3.0	5.0	0.0	15.0	10

- Water CEPI will be reduced from 56 to 43 after Short Term Action Plan
- Long Term:
- **Water CEPI = 43 After Short Term Action Plan**
- Water CEPI will be further reduced from 43 to 38 after Long Term

	A1	A2	A	B1	B2	B3	B	C1	C2	C3	C	D
After LT	2.0	3.0	15.0	1.5	3.0	2.0	6.5	3.0	2.0	5.0	11.0	5.0

## CEPI After Implementation of Action Plan ( Air )

	A1	A2	A	B1	B2	B3	B	C1	C2	C3	C	D
After ST	4.7	5.0	23.75	1.5	3.0	2.0	6.5	3.0	2.0	5.0	11.0	5.0

- Air CEPI will be reduced from 60.75 to 46.25 after Short Term Action Plan
- Long Term
- **Water CEPI = 43 After Short Term Action Plan**
- Air CEPI will be reduced from 46.25 to 33.25 after Long Term Action Plan

	A1	A2	A	B1	B2	B3	B	C1	C2	C3	C	D
After LT	3.0	3.0	15.0	1.5	3.0	2.0	6.5	3.0	2.0	4.0	7.0	4.0

## CEPI After Implementation of Action Plan ( Land)

	A1	A2	A	B1	B2	B3	B	C1	C2	C3	C	D
After ST	2.5	5.0	12.5	7.0	3.0	3.0	13.00	5.0	1.5	0.0	7.5	15.0

- Air CEPI will be reduced from 51.25 to 48.00 after Short Term Action Plan