

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



MAHARASHTRA POLLUTION CONTROL BOARD
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 |
|----|----|---|----|----|----|---|----|----|----|---|---|

- 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"> •Deferred due to local villager's opposition. •Proposed 50 MLD CETP to which Env. Clearance is awaited. |
| 2. | Arresting leakage of drainage pipe line | <ul style="list-style-type: none"> •AMC is granted by MIDC. •The leakages in pipe line are arrested. •Any incidental choke up in collection systems. •Manholes and chambers are attended immediately through AMC. • 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. -Sump No II is fill some times overflowing . |
| 3. | Connection Sump III to CETP | <ul style="list-style-type: none"> •Pipe line work has completed |

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

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

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

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"> • MIDC has allotted plot measuring 85000 m2 from plot no. OS 30 to M/s TEPS CETP for expansion of CETP. • The existing trees at this allotted plot have been removed. • 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 |

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"> -Board had sent letter to textile industries vide MPCB/ROT/TB/ 324 dated 26/11/2010 to 38 nos textile industries. -4 nos of industries has started and using recycling 50 % of their treated effluent. - Two No.of Textile industries has provided zero discharge system. |
| 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"> -Proposal has already submitted. - 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 |
| | | |

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 |
|--------|-----|-----|------|-----|-----|-----|-------|-----|-----|-----|-----|------|
| Air 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