

MAHARASHTRA POLLUTION CONTROL BOARD

Phone : 2402 0781/2401 0437

Fax : 220424068

Email : jdwater@mpcb.gov.in



Kalpataru Point
02nd, 03rd & 04th floor
Opp. Cineplanet
Near Sion Circle, Sion (E),
Mumbai- 400 022

Red/LSI

Date: 05/06/2014

Consent No. BO/JDWPC/EIC-TN-4978-14/E/CC-5950

Consent to Establish under Section 25 of the Water (Prevention & Control of Pollution) Act, 1974 & under Section 21 of the Air (Prevention & Control of Pollution) Act, 1981 and Authorization / Renewal of Authorization under Rule 5 of the Hazardous Wastes (Management, Handling & Transboundary Movement) Rules 2008

[To be referred as Water Act, Air Act and HW (M, H & TM) Rules respectively]

CONSENT is hereby granted to

**M/s. Tarapur Environment Protection society (CETP) ,
Plot No. OS-30(pt), MIDC Tarapur,
Tal. Palghar, Dist. Thane**

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located in the area declared under the provisions of the Water Act, Air act and Authorization under the provisions of HW(M, H & TM) Rules and amendments thereto subject to the provisions of the Act and the Rules and the Orders that may be made further and subject to the following terms and conditions:

1. **The Consent to Establish is granted for a period up to:** Commissioning of the unit or 5 years whichever is earlier.
2. The daily quantity of industrial effluent to be treated shall not exceed 50.0 MLD
3. The daily quantity of domestic effluent to be treated shall not exceed 4.5 CMD
4. The Consent is valid for collection, storage and treatment of Industrial and Domestic Effluent conforming to the inlet standards specified hereunder:-

1.	pH	Between	5.5 to 9.0
2.	Temperature	Not to exceed	45 °C
3.	Oil & Grease	Not to exceed	20 mg/l.
4.	Phenolic Compounds	Not to exceed	5.0 mg/l.
5.	Ammonical Nitrogen (as N)	Not to exceed	50 mg/l.
6.	Cyanide (as CN)	Not to exceed	2.0 mg/l.
7.	Hexavalent Chromium (as Cr ⁺⁶)	Not to exceed	2.0 mg/l.
8.	Total Chromium (as Cr)	Not to exceed	2.0 mg/l.
9.	Copper (as Cu)	Not to exceed	3.0 mg/l.
10.	Lead (as Pb)	Not to exceed	1.0 mg/l.
11.	Nickel (as Ni)	Not to exceed	3.0 mg/l.
12.	Zinc (as Zn)	Not to exceed	15 mg/l.
13.	Arsenic (as As)	Not to exceed	0.2 mg/l.
14.	Mercury (as Hg)	Not to exceed	0.01 mg/l.
15.	Cadmium	Not to exceed	1.0 mg/l.
16.	Selenium (as Se)	Not to exceed	0.05 mg/l.
17.	Fluoride (as F)	Not to exceed	15 mg/l.

M/s. Tarapur Environment Protection Society, SRO Raigad III/I/R/L/96579000

18.	Boron (as B)	Not to exceed	2.0	mg/l.
19.	Radioactive Materials-			
	a) Alpha Emitters, Hc/mL		10^{-7}	
	b) Beta Emitters, He/mL		10^{-8}	

Note : All small Scale Units generating effluent quantity more than 25 m³/day and Medium & Large Scale Units irrespective of the quantity of effluent will have to achieve the standards as prescribed in the letter of Consent issued to them individually under the Water (P & CP) Act 1974, Air (P & CP) Act 1981, Hazardous Waste (M&H) Amendment thereto before discharging the effluent into CETP.

5. Treatment and disposal for combined Industrial and Domestic effluent.

a) **Treatment:** The CETP authority shall provide comprehensive treatment system consisting of primary / secondary and/or tertiary treatment as is warranted with reference to influent quality and operate and maintain the same continuously so as to achieve the quality of the treated effluent to the following standards:

1) pH	Between	5.5 to 9.0	
2) Temperature	Not to exceed	45 ^o	
			Ambient at discharge point
3) BOD 3 Days 27 Deg.C	Not to exceed	100	mg/l.
4) Suspended Solids	Not to exceed	100	mg/l.
5) COD	Not to exceed	250	mg/l.
6) Oil & Grease	Not to exceed	20	mg/l.
7) Total Residue Chlorine	Not to exceed	1	mg/l.
8) Ammonical Nitrogen (as N)	Not to exceed	50	mg/l.
9) T.K.N	Not to exceed	100	mg/l.
10) Arsenic (as As)	Not to exceed	0.2	mg/l.
11) Mercury (as Hg)	Not to exceed	0.01	mg/l.
12) Lead (as Pb)	Not to exceed	1	mg/l.
13) Cadmium (as Cd)	Not to exceed	2	mg/l.
14) Chromium Total (as Cr)	Not to exceed	1	mg/l.
15) Copper (as Cu)	Not to exceed	3	mg/l.
16) Zinc (as Zn)	Not to exceed	15	mg/l.
17) Selenium (as Se)	Not to exceed	0.05	mg/l.
18) Nickel (as Ni)	Not to exceed	5	mg/l.
19) Cyanide (as CN)	Not to exceed	0.2	mg/l.
20) Fluoride (as F)	Not to exceed	15	mg/l.
21) Sulphide (as S)	Not to exceed	5	mg/l.
22) Phenolic Compound (as C ₆ H ₅ OH)	Not to exceed	5	mg/l.
23) Hexavalent Chromium (As Cr+6)	Not to exceed	0.1	mg/l.
24) Pesticides		Absent	
25) Boron (as B)	Not to exceed	Nil	
26) Chlorides	Not to exceed	Nil	
27) Sulphate	Not to exceed	Nil	

Note:-

- i) All efforts should be made to remove colour and unpleasant odour as per as possible.
- ii) If the CETP is not able to achieve the outlet parameters, then all the members and the said Society would be individually and jointly responsible and liable for legal actions under the provisions of sections 47 of the Water (Prevention & Control of Pollution) Act, 1974.

b) **Disposal:** The treated effluent shall be connected to the sewerage system provided by MIDC and finally discharged into **Marine Coastal Area**, at a point specified by National Institute of Oceanography with proper diffuser system.

6. The applicant should comply with the provisions of the Water (Prevention & Control of Pollution) Cess Act, 1977 (to be referred as Cess Act) and amendment Rules, 2003 there under: "The CETP falls in the category of the Cess Act & the rules made there under."

The daily water consumption for the following categories is as under:

(i) Domestic purpose	...	5.00 CMD
(ii) Water gets Polluted & Pollutants are Biodegradable	...	00.00 CMD
(iii) Water gets Polluted, Pollutants are not Biodegradable & Toxic	...	0.00 CMD
(iv) Industrial Cooling, spraying in mine pits or boiler feed	...	0.00CMD

The applicant should regularly submit to the Board the returns of water consumption in the prescribed form and pay the Cess as specified under Section 3 of the said Act.

7. **CONDITIONS UNDER AIR (P&C P) ACT, 1981:**

(i) The applicant shall install a comprehensive control system consisting of control equipments as is warranted with reference to generation of emission and operate and maintain the same continuously so as to achieve the level of pollutants to the following standards:

A] Control Equipment: Industry shall provide the Air Pollution Control equipments to achieve the consented standards.

B] Standards for Emissions of Air Pollutants:

(a) SPM/TPM	Not to exceed	150	mg/Nm ³
(b) SO ₂	Not to exceed	277	kg/Day

(i) **The applicant should observe the following fuel pattern:-**

Sr. No.	Type Of Fuel	Quantity	UOM
I.	Diesel	825	Lit./Hr

(ii) **The applicant should erect the chimney(s) of the following specifications:-**

Sr. No.	Chimney Attached To	Height in m
1	DG Set (4000 KVA)	30.0*

(*above the height of building where the DG set is installed)

(iii) The applicant should provide ports in the chimney/(s) and facilitates such as ladder, platform etc. for monitoring the air emissions and the same should be open for inspection to/and for use of the Board's Staff. The chimney(s) vents attached to various sources of emission should be designated by numbers such as S-1, S-2, etc. and these should be painted/displayed to facilitate identification.

(iv) The CETP shall take adequate measures for control of noise levels from its own sources within the premises so as to maintain ambient air quality standard in respect of noise to

less than 75 dB(A) during day time and 70 dB(A) during night time. Day time is reckoned in between 6 a.m. and 10 p.m. and night time is reckoned between 10 p.m. and 6 a.m.

C] Conditions for D.G. Set:-

- 1.] Noise from the D.G. Set should be controlled by providing an acoustic enclosure or by treating the room acoustically.
 - 2.] CETP should provide acoustic enclosure for control of noise. The acoustic enclosure/acoustic treatment of the room should be designed for minimum 25 dB(A) insertion loss or for meeting the ambient noise standards, whichever is on higher side. A suitable exhaust muffler with insertion loss of 25 dB(A) shall also be provided. The measurement of insertion loss will be done at different points at 0.5 metres from acoustic enclosure/room and then average.
 - 3.] CETP should make efforts to bring down noise level due to DG set, outside industrial premises, within ambient noise requirements by proper siting and control measures.
 - 4.] Installation of DG Set must be strictly in compliance with recommendations of DG Set manufacturer.
 - 5.] A proper routine and preventive maintenance procedure for DG set should be set and followed in consultation with the DG manufacturer which would help to prevent noise levels of DG set from deteriorating with use.
 - 6.] D.G. Set shall be operated only in case of power failure.
 - 7.] The applicant should not cause any nuisance in the surrounding area due to operation of D.G. Set.
- (v) Other Conditions:
- a. The CETP should not cause any nuisance in surrounding area.

8. CONDITIONS UNDER HW (M&H) RULES, 1989 & AMENDMENT RULES, 2008.

- i) The applicant shall handle hazardous wastes as specified below :

Sr. No.	Cat. of waste	Type of Waste	Quantity	UOM	Disposal
1.	34.3	Chemical sludge from waste water treatment (Primary Sludge)	20	MT/Day	CHWTSDF
2.	34.3	Chemical sludge from waste water treatment (Secondary Sludge)	2	MT/Day	CHWTSDF

- ii) **Treatment:** The hazardous waste generated shall be sent to CHWTSDF for further treatment and disposal.
- iii) The authorization is hereby granted to operate a facility for collection, storage, treatment and disposal of Hazardous Waste.
9. Whenever due to any accident or other unforeseen act or event, such emissions occur or is apprehended to occur in excess of standards laid down, such information should be forthwith reported to Board, concerned Police Station, office of Directorate of Health Services, Department of Explosives, Inspectorate of Factories and Local Body. In case of failure of pollution control equipments, the production process connected to it should be stopped.

10. General Conditions:

- i. The applicant shall maintain good housekeeping and take adequate measures for control of pollution from all sources so as not to cause nuisance to surrounding area / inhabitants.
 - ii. The applicant shall bring minimum 33% of the available open land under green coverage/ tree plantation.
 - iii. Solid waste – The non hazardous solid waste arising in the factory premises, sweepings, etc., be disposed of scientifically so as not to cause any nuisance / pollution. The applicant shall take necessary permissions from civic authorities for disposal to dumping ground.
 - iv. The applicant shall provide for an alternate electric power source sufficient to operate all pollution control facilities installed by he applicant to maintain compliance with the terms and conditions of the consent. In the absence, the applicant shall stop, reduce or otherwise, control production to abide by terms & conditions of this consent regarding pollution levels.
 - v. The applicant shall not change or alter quantity, quality, the rate of discharge, temperature or the mode of the effluent / emissions or hazardous wastes or control equipments provided for without previous written permission of the Board.
 - vi. The applicant shall provide facility for collection of environmental samples and samples of trade and sewage effluents, air emissions and hazardous wastes to the Board staff at the terminal or designated points and shall pay to the Board for the services rendered in this behalf.
 - vii. The firm shall submit to this office, the 30th day of September every year, the Environmental Statement Report for the financial year ending 31st March in the prescribed Form-V as pre the provisions of rule 14 of the Environment (Protection) (Second Amendment) Rules, 1992.
 - ix. An inspection book shall be opened and made available to the Board's officers during their visit to the applicant.
 - x. The applicant shall install a separate electric meter showing the consumption of energy for operation of domestic and industrial effluent treatment plants and air pollution control system. A register showing consumption of chemicals used for treatment shall be maintained.
 - xi. Separate drainage system shall be provided for collection of trade and sewage effluents. Terminal manholes shall be provided at the end of collection system with arrangement for measuring the flow. No effluent shall be admitted in the pipes / sewers down-stream of the terminal manholes. No effluent shall find its way other than in designed and provided collection System.
 - xii. Neither storm water nor discharge from other premises shall be allowed to mix with the effluents from the factory.
- 11.** The Board reserves the right to amend or add any condition in this consent and same shall be binding on the applicant. The CETP operator shall comply the directions of the Board issued from time to time.
- 12.** This consent is issued without prejudice to Hon'ble High court order passed or being passed in the Writ Petition No. 17 of 2011 filed by Nicholas Almedia v/s State of Maharashtra & Others.
- 13.** The CETP authority shall install online pH meter, flow meter, DO meter and TOC analyzer with data logger and real time display at the outlet.

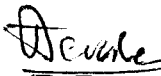
14. Specific conditions with Bank Guarantees along with time bound programme for compliance;

Sr. No	Consent conditions	BG amount
1	Towards compliance of consent conditions	Rs.5.0 Lakhs

Industry shall submit the above bank guaranty within 15 days to the Regional Office, Thane valid upto 30.04.2019.

15. The applicant should not take any effective steps for implementation of the project before obtaining Environmental Clearance as per EIA Notification 2006 and amendments thereto.
16. The treated effluent shall be discharged in to marine coastal area at a point specified by National Institute of Oceanography with proper diffuser system through sewerage system provided by MIDC.
17. Project Proponent shall obtain approval from NEERI / IIT for their Detailed Project Report.
18. This Consent is issued pursuant to the decision of the Consent Committee meeting of the Board held on 16.05.2014.
19. The Capital Investment of the unit is Rs. 70.00 Crs.

For and on Behalf of the
Maharashtra Pollution Control Board,


(D. T. Devale)
Member Secretary

To,
M/s. Tarapur Environment Protection society (CETP) ,
Plot No. OS-30(pt), MIDC Tarapur,
Tal. Palghar, Dist. Thane

Copy to:
RO Thane/SRO Tarapur-I/C.A.O./ Cess Wing/ Master file.

Received Consent fee of -

Sr. No.	Amount(Rs.)	DD. No.	Date	Drawn On
1	100000/-	511599	04 March 2014	Bank of Maharashtra

M/s.Tarapur Environment Protection Society, SRO Raigad II/I/R/L/96579000