

## MAHARASHTRA POLLUTION CONTROL BOARD

Phone : 4010437/4020781  
/4037124/4035273  
Fax : 24044532/4024068 /4023516  
Email : enquiry@mpcb.gov.in  
Visit At : <http://mpcb.gov.in>



Kalpataru Point, 3rd & 4th floor, Sion- Matunga  
Scheme Road No. 8, Opp. Cine Planet Cinema, Near  
Sion Circle, Sion (E),  
Mumbai - 400 022

Consent order No :- *Formate 1.0/BO/CAC-Cell/EIC No NM-6016-15/14thCAC/ 6219*  
Date- 11/05/2016

To,  
Dow Chemical International Pvt Ltd,  
Plot No.T-22/Pt.,M.I.D.C. Taloja  
Taluka - Panvel, District - Raigad

Subject: Renewal of Consent to Operate RED category.

Ref : 1. Earlier Consent granted vide no. Formate1.0/BO/CAC-Cell/EIC No NM-5291-14/16<sup>th</sup> CAC/2485 dated 04.03.2015.

2. Your application approved in CAC meeting held on 02.02.2016.

Your application:CR1512000385

Dated: 27.11.2015

For: Renewal of Consent to Operate under Section 26 of the Water (Prevention & Control of Pollution) Act, 1974 & under Section 21 of the Air (Prevention & Control of Pollution) Act, 1981 and Authorization under Rule 5 of the Hazardous Wastes (M, H & T M) Rules 2008 is considered and the consent is hereby granted subject to the following terms and conditions and as detailed in the schedule I, II, III & IV annexed to this order:

- The consent is granted for a period from 01.02.2016 to 31.01.2021.
- The actual capital investment of the industry is Rs.161.03 Crs. (As per C.A.Certificate submitted by industry)
- The Consent is valid for the manufacture of -

Sr. No.	Product Name	Maximum Quantity in MT/A
1.	Water Based Latex Polymers	110000
2.	Solvent based / Solvent free Polyester Adhesives	18000
3.	Solvent Based / Solvent free Polyurethane Adhesives	18000
<b>By-Product</b>		
1	Latex Polymer Cake	2425

4. Conditions under Water (P&CP), 1974 Act for discharge of effluent:

Sr. no.	Description	Permitted quantity of discharge (CMD)	Standards to be achieved	Disposal
1.	Trade effluent	520	As per Schedule -I	CETP
2.	Domestic effluent	15	As per Schedule -I	CETP

5. Conditions under Air (P& CP) Act, 1981 for air emissions:

Sr. no.	Description of stack / source	Number of Stack	Standards to be achieved

1.	Boiler	1	As per Schedule -II
2.	Combined process stack	1	As per Schedule -II
3.	DG set (1000 KVA)	1	As per Schedule -II
4.	Boiler & Hot Oil Heater	1	As per Schedule -II
5.	Thermal Oxidizer	1	As per Schedule -II
6.	Cold Stack of Thermal Oxidizer	1	As per Schedule -II

**6. Conditions about Non Hazardous Wastes:**

Sr. no.	Type Of Waste	Quantity & UoM	Treatment	Disposal
1	Activated biological waste.	18 MT/Yr	---	Approved external landfill / Used as a manure
2	RM empty bags – polyurethane, jute, cotton, paper etc.	73 MT/Yr	---	Sale to authorized party.
3	Laboratory glassware's, broken glasses.	25 MT/Yr	---	Sale to authorized party.
4	Ion exchange resin.	25 MT/Yr	---	Sale to authorized party.
5	Wooden boxes, pallets	400 MT/Yr	---	Sale to authorized party.
6	Paper waste / old records / packing material.	50 MT/Yr	---	Sale to authorized party.
7	Material / metal scrap – Old lines, structures.	350 MT/Yr	---	Sale to authorized party.
8	Canteen waste.	25 MT/Yr	---	Secured Landfill / Used as manure

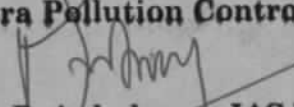
**7. Conditions under Hazardous Waste (MH & TM) Rules, 2008 for treatment and disposal of hazardous waste:**

Sr. No.	Type Of Waste	Category	Quantit	UOM	Treatment	Disposal
1	Contaminated aromatic, aliphatic or naphthenic solvents not fit for originally intended use.	20.1	60	MT/Yr		Sales to Authorized Parties approved by CPCB, MPCB or MWML, Taloja
2	Spent solvents	20.2	50	MT/Yr		Sales to Authorized Parties approved by CPCB, MPCB or MWML, Taloja
3	Waste Adhesives / Residue	23.1	84	MT/Yr		Sales to Authorized

						Parties approved by CPCB, MPCB or MWML, Taloja
4	Used / Spent Oil.	5.1	12	MT/Y r		Sales to Authorized Parties approved by CPCB, MPCB or MWML, Taloja
5	Sludge from treatment of waste water arising out of cleaning / disposal of barrels / containers.	33.2	18	MT/Y r		Sales to Authorized Parties approved by CPCB, MPCB or MWML, Taloja
6	Discarded containers/ barrels / liners / used for haz. wastes / chemicals.	33.3	1200	MT/Y r		Sales to Authorized Parties approved by CPCB, MPCB or MWML, Taloja
7	Furnace Oil / Furnace oil sludge arising out of tank cleaning	3.3	5	MT/Y r		Sales to Authorized Parties approved by CPCB, MPCB or MWML, Taloja
8	Non polymerized residue	22.5	10	MT/Y r		Sales to Authorized Parties approved by CPCB, MPCB or MWML, Taloja
9	Emulsion waste / residue	21.1	84	MT/Y r		Sales to Authorized Parties approved by CPCB, MPCB or MWML, Taloja
10	Flue Gas Cleaning Residue	34.1	20	MT/Y r		Sales to Authorized Parties approved by CPCB, MPCB or MWML, Taloja

8. The Board reserves the right to review, amend, suspend, revoke etc. this consent and the same shall be binding on the industry.
9. This consent should not be construed as exemption from obtaining necessary NOC/permission from any other Government authorities.
10. Industry shall carry out hazardous waste audit from renowned institute and submit the report by 31.07.2016. Also shall submit BG of Rs 4 lakhs for the compliance of the same.

**For and on behalf of the  
Maharashtra Pollution Control Board**

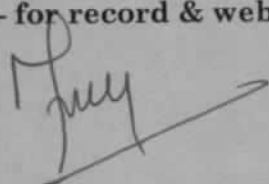
  
**(Dr. P. Anbalagan, IAS )  
Member Secretary**

Received Consent fee of -

Sr. No.	Amount(Rs.)	DD. No.	Date	Drawn On
	The balance fees of Rs 104673/- as per the consent no Formate1.0/BO/CAC-Cell/EIC No NM-5291-14/16 <sup>th</sup> CAC/2485 dated 04.03.2015 is considered at the time of this renewal.			
1	970000	479908	24.11.2015	Citi Bank
2	568400	691338	23.02.2016	Citi Bank

Copy to:

1. Regional Officer -Navi Mumbai and Sub-Regional Officer-Taloja, MPCB, They are directed to ensure the compliance of the consent conditions. The BG of 2 lakh obtained towards the submission of hazardous waste audit report shall be forfeited as industry has not complied the same.
2. Chief Accounts Officer, MPCB, Mumbai.
3. CC/CAC desk- for record & website updation purposes.



Maharashtra Pollution Control Board

## Schedule-I

### Terms & conditions for compliance of Water Pollution Control:

1) A] As per your application, you have provided the combined Effluent Treatment Plant (ETP) for treatment of trade and domestic effluent with the design capacity of 520 CMD.

B] The Applicant shall operate the effluent treatment plant (ETP) to treat the trade effluent so as to achieve the following standards prescribed by the Board or under EP Act, 1986 and Rules made there under from time to time, whichever is stringent.

Sr No.	Parameters	Standards prescribed by Board (If any)
		Limiting Concentration in mg/l, except for pH
01	pH	Between 5.5 to 9.0
02	Oil & Grease	Not to exceed 10
03	BOD (3 days 27°C )	Not to exceed 100
04	Suspended Solids	Not to exceed 100
05	COD	Not to exceed 250
06	Chloride	Not to exceed 600
07	Sulphate	Not to exceed 1000
08	Total Dissolved Solids	Not to exceed 2100

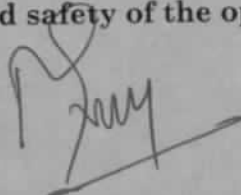
C ) The treated effluent shall be discharged to the CETP.

2) A] As per your consent application, the domestic effluent shall be treated in combined ETP.

B] In case the treatment system is combined for trade effluent and sewage then the standards and disposal path prescribed at sr. no.1 B & C of schedule I shall be applicable.

3) The Board reserves its rights to review plans, specifications or other data relating to plant setup for the treatment of waterworks for the purification thereof & the system for the disposal of sewage or trade effluent or in connection with the grant of any consent conditions. The Applicant shall obtain prior consent of the Board to take steps to establish the unit or establish any treatment and disposal system or and extension or addition thereto.

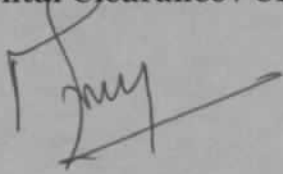
4) The industry shall ensure replacement of pollution control system or its parts after expiry of its expected life as defined by manufacturer so as to ensure the compliance of standards and safety of the operation thereof.



- 5) The Applicant shall comply with the provisions of the Water (Prevention & Control of Pollution) Cess Act, 1977 and as amended, by installing water meters, filing water cess returns in Form-I and other provisions as contained in the said act.

Sr. no.	Purpose for water consumed	Water consumption quantity (CMD)
1.	Industrial Cooling, spraying in mine pits or boiler feed	206
2.	Domestic purpose	15
3.	Processing whereby water gets polluted & pollutants are easily biodegradable	610
4.	Processing whereby water gets polluted & pollutants are not easily biodegradable and are toxic	0
5.	Agriculture / Gardening	5

- 6) The Applicant shall provide Specific Water Pollution control system as per the conditions of EP Act,1986 and rule made there under from time to time/ Environmental Clearance / CREP guidelines.



Maharashtra Pollution Control Board

## Schedule-II

### Terms & conditions for compliance of Air Pollution Control:

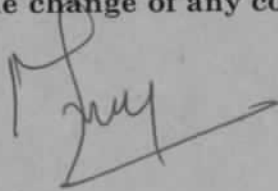
1. As per your application, you have provided the Air pollution control (APC) system and also erected following stack (s) and to observe the following fuel pattern-

Sr. No.	Stack Attached To	APC System	Height in Mtrs.	Type of Fuel	Quantity & UoM	S %	SO <sub>2</sub> Kg/Day
1	Boiler	Stack	40.70	Furnace Oil	6240 Kg/Day	4	499.2
2	Boiler & Hot Oil Heater	Stack	40				
3	Combined Process stacks	Caustic Scrubber	35	NA	NA	NA	NA
4	DG set (1000KV)	Stack	16	HSD	1078 Kg/day	I	21.56
5	Thermal Oxidizer	Stack	8	LPG	384 Kg/day	NA	NA
6	Cold Stack of Thermal Oxidizer	Stack	40				

2. The Applicant shall provide Specific Air Pollution control equipments as per the conditions of EP Act, 1986 and rule made there under from time to time / Environmental Clearance / CREP guidelines.
3. The applicant shall operate and maintain above mentioned air pollution control system, so as to achieve the level of pollutants to the following standards:

Particulate matter	Not to exceed	150 mg/Nm <sup>3</sup> .
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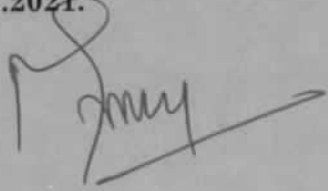
4. The Applicant shall obtain necessary prior permission for providing additional control equipment with necessary specifications and operation thereof or alteration or replacement well before its life come to an end or erection of new pollution control equipment.
5. The Board reserves its rights to vary all or any of the condition in the consent, if due to any technological improvement or otherwise such variation (including the change of any control equipment, other in whole or in part is necessary).



**Schedule-III**  
**Details of Bank Guarantees**

Sr. No.	Consent (C to E/O/R)	Amt of BG Imposed	Submissi on Period	Purpose of BG	Complian ce Period	Validity Date
1	C to R	Rs 5 lakh	Submitted *	O & M of PCS	31.01.2021	30.05.2021
2	C to R	Rs 4 lakh	Within 15 days from the date of issue of consent	Industry shall carry out hazardous waste audit from renowned institute and submit the report	31.07.2016	30.11.2016

\*The BG of Rs 5 lakh towards O & M of PCS shall be extended for a period upto 30.05.2021.



Maharashtra Pollution Control Board



#### Schedule-IV

##### General Conditions:

- 1) The applicant shall provide facility for collection of environmental samples and samples of trade and sewage effluents, air emissions and hazardous waste to the Board staff at the terminal or designated points and shall pay to the Board for the services rendered in this behalf.
- 2) If the MIDC pipeline is broken/ overflowing chamber, in such cases industry shall not discharge their treated effluent into MIDC drain, it shall be sent to CETP by tanker.
- 3) Industry should monitor effluent quality, stack emissions and ambient air quality monthly/quarterly.
- 4) The applicant shall provide ports in the chimney/(s) and facilities such as ladder, platform etc. for monitoring the air emissions and the same shall be open for inspection to/and for use of the Board's Staff. The chimney(s) vents attached to various sources of emission shall be designated by numbers such as S-1, S-2, etc. and these shall be painted/ displayed to facilitate identification.
- 5) Whenever due to any accident or other unforeseen act or even, such emissions occur or is apprehended to occur in excess of standards laid down, such information shall 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 shall be stopped.
- 6) The applicant shall provide an alternate electric power source sufficient to operate all pollution control facilities installed 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 and conditions of this consent.
- 7) 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 per the provisions of rule 14 of the Environment (Protection) (Second Amendment) Rules, 1992.
- 8) The industry shall recycle/reprocess/reuse/recover Hazardous Waste as per the provision contain in the HW(MH&TM) Rules 2008, which can be recycled/processed/reused/recovered and only waste which has to be incinerated shall go to incineration and waste which can be used for land filling and cannot be recycled/reprocessed etc should go for that purpose, in order to reduce load on incineration and landfill site/environment.
- 9) The industry should comply with the Hazardous Waste (M,H & TM) Rules, 2008 and submit the Annual Returns as per Rule 5(6) & 22(2) of Hazardous Waste (M,H & TM) Rules, 2008 for the preceding year April to March in Form-IV by 30<sup>th</sup> June of every year.
- 10) An inspection book shall be opened and made available to the Board's officers during their visit to the applicant.
- 11) The applicant shall make an application for renewal of the consent at least 60 days before the date of the expiry of the consent.
- 12) Industry shall strictly comply with the Water (P&CP) Act, 1974, Air (P&CP) Act, 1981 and Environmental Protection Act, 1986 and industry specific standard under EP Rules 1986 which are available on MPCB website([www.mpcb.gov.in](http://www.mpcb.gov.in)).
- 13) The industry shall constitute an Environmental cell with qualified staff/personnel/agency to see the day to day compliance of consent condition towards Environment Protection.
- 14) Separate drainage system shall be provided for collection of trade and sewage effluents. Terminal manholes shall be provided at the end of the collection system with arrangement for measuring the flow. No effluent shall be admitted in the pipes/sewers downstream of the terminal manholes. No effluent shall find its way other than in designed and provided collection system.

- 15) Neither storm water nor discharge from other premises shall be allowed to mix with the effluents from the factory.
- 16) The applicant shall install a separate 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.
- 17) Conditions for D.G. Set
  - a) Noise from the D.G. Set should be controlled by providing an acoustic enclosure or by treating the room acoustically.
  - b) Industry 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 meters from acoustic enclosure/room and then average.
  - c) Industry 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.
  - d) Installation of DG Set must be strictly in compliance with recommendations of DG Set manufacturer.
  - e) 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.
  - f) D.G. Set shall be operated only in case of power failure.
  - g) The applicant should not cause any nuisance in the surrounding area due to operation of D.G. Set.
  - h) The applicant shall comply with the notification of MoEF dated 17.05.2002 regarding noise limit for generator sets run with diesel.
- 18) The industry should not cause any nuisance in surrounding area.
- 19) The industry 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.
- 20) The applicant shall maintain good housekeeping.
- 21) The applicant shall bring minimum 33% of the available open land under green coverage/ plantation. The applicant shall submit a statement on available open plot area, number of trees surviving as on 31<sup>st</sup> March of the year and number of trees planted by September end, with the Environment Statement.
- 22) 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 of solid waste.
- 23) The applicant shall not change or alter the 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. The industry will not carry out any activity, for which this consent has not been granted/without prior consent of the Board.
- 24) The industry shall ensure that fugitive emissions from the activity are controlled so as to maintain clean and safe environment in and around the factory premises.
- 25) The industry shall submit official e-mail address and any change will be duly informed to the MPCB.
- 26) The industry shall achieve the National Ambient Air Quality standards prescribed vide Government of India, Notification dtd. 16.11.2009 as amended.

