

# MAHARASHTRA POLLUTION CONTROL BOARD

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**RED/LSI**

Consent order No:-Format 1.0/AST/RONM/EIC No. NM-5680-15R/CC-6420

Date- 30/05/2015

To,

M/s. Dorf Ketal Chemicals India Pvt. Ltd.  
Plot No. W-165 (B), W-166 (B), W-167 (B),  
J-10/2, J-10/3 & J-11, MIDC Taloja,  
Tal Panvel, Dist. Raigad.

**Subject: Renewal of Consent to Operate under RED/LSI category.**

- Ref : 1. Earlier consent to operate is granted vide No. *Format 1.0/AST/RONM/EIC No. NM-537-14/CC-8106 dtd. 01.09.2014*  
2. Minutes of CC meeting held on 22.05.2015

Your application: CR1503000116

Dated: 02.03.2015

For Renewal of Consent to Operate for 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:

1. The consent is granted for a period from 31.03.2015 to 31.03.2016
2. The total capital investment of the industry is Rs. 71.71 Crs. (As per C. A Certificate submitted by industry)
3. The Consent is valid for the manufacturing of -

Sr. No.	Product Name	Maximum Quantity MT/A
1	Lubricity Additive	1583
2	Copper Corrosion Inhibitor	195
3	Viscosity Improver	2
4	HSD Stabilizer	48
5	Detergent	2
6	Water Polymer	2
7	Dispersants-BWA	2
8	Antistatic Additive	89
9	Gasoline Antioxidant	114
10	Neutralizing Amine	253
11	Powder Scavenger O2-BWA	2
12	Alkanity Booster-BWA	2
13	Multifunctional-BWA	2
14	Anti-foulant	1393
15	Corrosion Inhibitor-CWA	31
16	Lubricant Additive	3333
17	Diesel Stabilizer	190

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18	Antiozonant	26
19	Amino	2
20	Antifoams-CWA	2
21	Dispersants-CWA	114
22	Condensate CI-BWA	3
23	Close Circuit-CWA	35
24	Gasoline Stabilizer	123
25	Diesel Dehazer	2
26	Polymer Additive	602
27	Petroleum Distillate	3
28	Hydrogen Sulphide Scavenger	45
29	Scale Inhibitors-CWA	103
30	Oxygen Scavenger-BWA	17
31	Anti-scalent	917
32	Multifunctional Additive	53
33	Antioxidant	1242
34	Corrosion Inhibitor-BWA	17
35	Cleaning Chemicals	6
36	Emulsion Breaker	265
37	Pour Point Depressant	255
38	Fuel Additive	5
39	Biocides-CWA	62
40	Powder Multifunction-BWA	3.5
41	Metal Deactivator	62
42	Octane Booster	2
43	Metal Passivator	190
44	Dispersants/Fuel Additive	2
45	Dewaxing Aid	75
46	Multifunctional-CWA	143
47	Demulsifier	1033
48	Powder CI-BWA	2
49	Fuel Additive	11
50	Antifoam	5
51	Antipolymerant	437
52	Complete Comb. Copolymer	2
53	Powder Dispersants-BWA	3.5
54	Imidazoline	133
55	Anti-scalant-CWA	55
56	Corrosion Inhibitor	950

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	68.1	As per Schedule -I	100% recycle/reuse into process so as to achieve Zero Liquid Discharge (ZLD)
2.	Domestic effluent	17.6	As per Schedule -I	Overflow from Soak pit shall be used for gardening purpose within premise

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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.	Steam Boiler (3 Nos.)	1	As per Schedule -II
2.	Thermic Fluid heater (3 Nos.)	1	As per Schedule -II
3.	DG set (300 KVA)	1	As per Schedule -II

6. Conditions about Non Hazardous Wastes:

Sr. No.	Type Of Waste	Quantity	Treatment	Disposal
1	Wooden, paper, plastic	72 Ton/M	....	sale

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

Sr. No.	Type Of Waste	Category	Quantity	UOM	Treatment	Disposal		
1	Oily sludge/emulsion	4.1	50	Kg/Day	Incineration	CHWTSDF		
2	Used /spent oil	5.1	250	Kg/Day	Incineration			
3	Wastes/residue containing oil	5.2						
4	Contaminated aromatic, aliphatic or napthenic solvents	20.1	1300	Kg/Day	....	Sale to authorized reprocessors		
5	Spent solvents	20.2						
6	Distillation residues	20.3	100	Kg/M	Incineration	CHWTSDF		
7	Wastes/residues (not made with vegetable or animal mate	23.1	4000	Kg/M				
8	Residues and wastes	28.1	1000	Kg/M				
9	Spent catalyst / spent carbon	28.2	50	Kg/M				
10	Spent mother liquor	28.4	1500	Kg/M				
11	Chemical-containing residue from decontamination	33.1	2200	Lit/Day				
12	Sludge from treatment of waste water	33.2	1	MT/M				
13	Discarded containers, barrels / liners	33.3	1500	Nos/M			....	Sale to authorized party
14	Flue gas cleaning residue	34.1	1	Mt/M			Incineration	CHWTSDF
15	Chemical sludge from waste water treatment and RO plant	34.3	245	Kg/Day			....	CHWTSDF
16	Filters and filter material which have organic liquid	35.1	12	MT/M	Incineration	CHWTSDF		
17	Spent catalyst	35.2	100	Kg/M	Incineration	CHWTSDF		
18	Sludge from wet scrubbers	36.1	12	MT/M	Incineration	CHWTSDF		
19	Distillation residues from contaminated organic solvent	36.4	6	MT/M	Incineration	CHWTSDF		
20	Contaminated Paper Bags	....	15	Kg/Day	Incineration	CHWTSDF		
21	Contaminated empty bags	....	1000	Nos.M	Incineration	CHWTSDF		

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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.
9. The industry shall also comply with the Industry specific standards notified under Environment Protection Act.
10. Industry shall comply with the EIA Notification, dated 14.09.2006 and amendments thereto.
11. Industry shall ensure that hazardous waste i.e. contaminated solvents, spent mother liquor etc. shall be disposed off to authorized party and ensures transportation of the same by installing Global Positioning System (GPS) to transporting vehicles & maintains proper record for submission of quarterly report to Regional Office, Navi-Mumbai.
12. This consent is issued pursuant to the decision of the Consent Committee held on 22.05.2015

For and on behalf of the  
Maharashtra Pollution Control Board

*P. K. Mirashe*  
(P. K. Mirashe)  
Member Secretary

Received Consent fee of -

Sr. No.	Amount (Rs.)	DD No.	Date	Drawn On
1	100,100/-	981075	25.02.2015	SBI Bank

Copy to:

1. Regional Officer - Navi Mumbai and Sub-Regional Officer, Talaja, MPCB,  
- They are directed to ensure the compliance of the consent conditions.
2. Chief Accounts Officer, MPCB, Mumbai.
3. CC/CAC desk- for record & website updating purposes.

**Schedule-I**

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

1) A] As per your application, you have provided the Effluent Treatment Plant (ETP) with the design capacity of 120 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
	<b>I. Compulsory Parameters</b>	<b>Limiting Concentration in mg/l, except for pH</b>
01	pH	6.0 to 8.5
02	Oil & Grease	10.0
03	BOD (3 days 27oC )	100
04	Suspended Solids	100
05	COD	250
06	Chloride (as Cl)	600
07	Sulphate as (SO <sub>4</sub> )	1000
08	Total Dissolved solids	2100

C) The treated effluent shall be used in process to achieve Zero Discharge. In no case treated effluent shall be disposed to CETP Taloja.

2) A] As per your consent application, you have provided soak pit as a treatment for sewage.

B] The Applicant shall operate the sewage treatment system to treat the sewage so as to achieve the following standards/ prescribed under EP Act, 1986 and Rules made there under from time to time, whichever is stringent.

- (1) Suspended Solids. Not to exceed 100 mg/l.
- (2) BOD 3 days 27oC. Not to exceed 100 mg/l.

C] The treated sewage shall be used on land for gardening/plantation only in the factory premises.

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	75
2.	Domestic purpose	22.0
3.	Processing whereby water gets polluted & pollutants are easily biodegradable	25
4.	Processing whereby water gets polluted &	NIL

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	pollutants are not easily biodegradable and are toxic	
5.	For gardening	10

- 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

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**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 proposed to erect 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.	Steam Boiler 3 in nos.	Stack (S-1)	30.00	LDO or PNG	1335 Kg/D 4368 Nm <sup>3</sup> /D	1.8	48.06
2.	Thermic fluid Heaters 3 in nos.	Stack (S-2)	40.00	LDO or PNG	5520 Kg/D 6576 Nm <sup>3</sup> /D	1.8	198.72
3	DG Set (300 KVA)	Stack (S-3)	3.46*	Diesel	60 Ltrs/Hr	1	28.8

(\* Above the roof)

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.
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> .
SO <sub>2</sub>	Not to exceed	48 Kg/day

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	Submission Period	Purpose of BG	Compliance Period	Validity Date
1	C to O	Rs. 5.0 Lakh	Existing	Towards O & M of Pollution Control Systems.	31.03.2016	31.07.2016

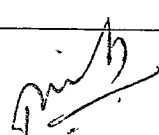
The applicant shall keep & maintain existing bank guarantee of Rs. 5.0 Lakh in the Regional Office, Navi-Mumbai and shall extend its validity upto 31/07/2016 after expiry towards operation & maintenance of pollution control systems.

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#### 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.
- 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
- Noise from the D.G. Set should be controlled by providing an acoustic enclosure or by treating the room acoustically.
  - 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.
  - 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.
  - Installation of DG Set must be strictly in compliance with recommendations of DG Set manufacturer.
  - 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.
  - D.G. Set shall be operated only in case of power failure.
  - The applicant should not cause any nuisance in the surrounding area due to operation of D.G. Set.
  - 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 yearly statement by 30th September every year on available open plot area, number of trees surviving as on 31st March of the year and number of trees planted by September end.
- 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 quarterly statement in respect of industries obligation towards consent and pollution control compliance's duly supported with documentary evidences (format can downloaded from MPCB official site).
- 26) The industry shall submit official e-mail address and any change will be duly informed to the MPCB.
- 27) The industry shall achieve the National Ambient Air Quality standards prescribed vide Government of India, Notification dt. 16.11.2009 as amended.

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