

# MAHARASHTRA POLLUTION CONTROL BOARD

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Mumbai - 400 022

Consent order No :- Formate1.0/ BO/CAC-Cell/ EIC No NM-5957-15/14th CAC/ 3645  
Date- 15/03/2016

To,  
M/s NOCIL Ltd,  
C-37, MIDC TTC Indl Area,  
Pawane village, Navi Mumbai.

Subject: Renewal of consent to operate under RED category.

Ref : 1. Earlier Consent granted vide no. BO/PAMS/R/EIC No NM-2029-10/CC-184 dtd 19.10.2011.

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

Your application: CR1510000069

Dated:01.10.2015

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:

1. The consent is granted for a period from 01.01.2016 to 28.02.2020.
2. The actual capital investment of the industry is Rs.145.92 Crs. (As per C.A.Certificate submitted by industry)
3. The Consent is valid for the manufacture of -

Sr. No.	Product Name	Maximum Quantity
1	Rubber chemicals and its intermediates	3675 MT/M

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	2100	As per Schedule -I	CETP
2.	Domestic effluent	75	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 7 nos	7	As per Schedule -II
2.	Process stacks	4	As per Schedule -II
3.	DG set (600 KVA X 2 nos)	2	As per Schedule -II
4.	Incinerator	1	As per Schedule -II

6. Non Hazardous solid Waste :

Sr. no.	Type of waste	Quantity	Disposal
1.	General scrap(Paper woods, glass, plastic metal)	200 MT/M	sale to MPCB authorized party
2.	Boiler Ash	180 MT/M	Sale to Cement/Brick manufactures

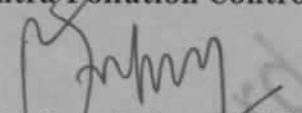
7. Conditions under Hazardous Waste (MH & TM) Rules, 2008 for treatment and disposal of hazardous waste:

Sr. No.	Type Of Waste	Category	Quantity	UOM	Treatment	Disposal
1	Distillation residue (from antioxidant / accelerator plant, PVI plant)	20.3	700	MT/A		CHWTSDF
2	Distillation residues(from antioxidant plant)	20.3	300	MT/A		Sale to authorized party
3	Used/Spent oil	5.1	10	MT/A		Sale to authorized party
4	Chemical sludge from waste water treatment	34.3	300	MT/A		CHWTSDF
5	Filters and filter material which have organic liquid	35.1	2	MT/A		CHWTSDF
6	Discarded containers/barr els/liners	33.3	2	MT/A		CHWTSDF/Sale to authorized party
7	Sludge and filters contaminated with oil	3.3	2	MT/A		CHWTSDF
8	Flue gas residue from boiler	34.1	3	MT/A		CHWTSDF
9	Used Batteries containing lead	B-4	100	Nos/A		Sale to authorized party.
10	Total Sulphur	D-1	2	MT/A		CHWTSDF
11	Copper waste	B-3	2	MT/A		CHWTSDF/Sale to authorized party
12	Asbestos containing waste	B-21	10	MT/A		CHWTSDF/Sale to authorized party

13	E-waste		0.5	MT/A		Sale to authorized party.
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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.

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
1	1459400	468055	15.09.2015	HDFC Bank
2	34055	478052	15.09.2015	HDFC Bank

The balance fees Rs. 247455, with the Board will be considered at the time of next renewal of consent.

Copy to:

1. Regional Officer -NaviMumbai and Sub-Regional Officer-NaviMumbai I, 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 updation purposes.

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) with the design capacity of 2200 CMD for treatment of trade and domestic effluent.
- 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	5.5 - 9.0
02	Oil & Grease	10
03	BOD (3 days 27oC)	100
04	Total Dissolved Solids	2100
05	Suspended Solids	100
06	COD	250
07	Chloride	600
08	Sulphate	1000
09	% Sodium	60%
10	TAN	50
11	Phenol	1

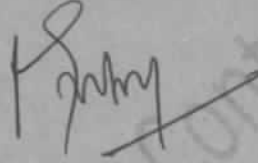
C) The treated effluent shall be discharged to the CETP.

- 2) A) As per your consent application, you have provided the septic tank tanks. The overflow of septic tank shall be treated in ETP along with trade effluent.
- 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	1150
2.	Domestic purpose	150
3.	Processing whereby water gets polluted & pollutants are easily biodegradable	2100
4.	Processing whereby water gets polluted & pollutants are not easily biodegradable and are toxic	0
5.	Any other and gardening	100

- 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.



**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	Steam Boiler (3 nos)	Stack	30.5,30.5,41.5	LSHS/ Furnace oil	1250 Kg/hr / 52 Kg/ hr each	PNG= 20000 m3/D	0.6/ 2.7	360 /67 Each
2	Therminol Boiler	Stack	9	Furnace Oil	25 Kg/ hr		2.7	32.4
6	Therminol Boiler	Stack	13.8	Furnace Oil	25 Kg/ hr		2.7	32.4
4	Therminol Boiler	Stack	30.5	Furnace Oil	90 Kg/ hr		2.7	116
5	Boiler	ESP	40	Imported Coal/ Indian Coal	2520Kg/ hr / 1604 Kg/ hr	0.78/ 0.5	943 / 384.96	
6	Thios Reactro scrubber vent	Scrubber	20	NA	NA	NA	NA	
7	Dissolver scrubber vent	Scrubber	20	NA	NA	NA	NA	
8	HCL Scrubber Vent of Chlorinator	Scrubber	20	NA	NA	NA	NA	
9	Thios Dust collector vent system of filtration /drying unit	Bag filter	18	NA	NA	NA	NA	
10	Incinerator Stand-By	Venturi scrubber	30.5	Not in use				
11	DG set (600 KVA x 2)	Stack		HSD	5 MT/D	0.1	10	

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>
Chlorine	Not to exceed	3 ppm
HCl	Not to exceed	35 mg/Nm <sup>3</sup>
H <sub>2</sub> S	Not to exceed	70 mg/Nm <sup>3</sup>

4. **Standards for Incinerator as per CPCB guidelines :**

Applicant shall provide and/or upgrade the existing incinerator so as to comply the following standards and conditions.

- A) Emission limit of Incineration while operating properly at 100 % rated capacity, shall have an emission limit from the discharge stack to atmosphere of less than or equal to :

Parameter	Emission limit (mg/Nm <sup>3</sup> )
Particulate Matter	50
HCl	50
SO <sub>2</sub>	200
CO	100
Total Organic Carbon	20
HF	4
NO <sub>x</sub>	400

All values corrected to 11% oxygen on a dry basis.

- B) Hydro carbons 10 ppm over an hourly rolling average dry basis measured as propane.

- C) Capacity : While operating properly at 100% rated capacity, the system shall be have a visible emission rate of less than or equal to 10% except for condensed water vapour from the discharge stack to atmosphere (one hour rolling averages).

- D) Dioxin Furans : While operating properly at 100% rated capacity, the system shall be an emission of dioxins and furans of less than of equal to 0.1 manogram TEQ/NM<sup>3</sup> corrected to 10% oxygen, Sampling period shall be minimum 5 hours and maximum 8 hours. Analysis at dioxin and furans as well as reference measurement methods to calibrate authomated measurementsystem shall be carried out as given by CEN standards. II CEN standards are not available, ISO Standards, National or International standards which will ensure the provision of data of an equivalent scientific quality shall apply.

- E) Metals: While operating properly at rated capacity, the system shall have an emission

rate from the discharge of stack to atmosphere less than or equal to:

Metal	
Cd+Th (and its compounds)	0.05Mg/NM <sup>3</sup>
Hg (and its compounds)	0.05
Sb+As+Pb+Cr+Co+Mn+Nr+V (and their compounds)	0.5

All values corrected to 11% oxygen on a dry volume basis.

- F) Operating Standards:

1. Combustion efficiency (CE) shall be at least 99.9% and shall be computed as follows-

$$CE = \% \text{Co}_2 / [\% \text{Co}_2 + \% \text{CO}] \times 100$$

2. Temperature of the primary chamber shall be at least 850°C.

3. Secondary chamber gas residence time shall be at least 2 (two) second at 1100°C will minimum 3% oxygen in the stack gas. 4. Destruction and Removal Efficiency (DRE) for each principal Organic hazardous constituent (POHC) in the waste lead shall be at least 99.99%.

4. DRE for hazardous waste containing PCBs, PCTs and other chlorinated compounds

shall be 99.9999%.

G] Air pollution control devices: The emission control system shall be installed for cleaning and removal of air pollutants. The system shall comprise of following equipment. Singly or in combination with design efficiencies to meet the emission norms:

i) Waste heat boiler/heat exchange/quench

ii) Bag filters (ESP)/Cyclone

iii) Dry/wet scrubber with hydrated lime or sodium hydroxide injection.

iv) Chimney/stack of minimum 30 m height or as per formula 14 (Q) <sup>01</sup>

[Where Q is

emission rate of SO<sub>2</sub> in Kg hr] whichever is more and designed as per GEP.

[Note Dry/wet ESP, spray dryer, dediox filter and mist eliminator shall also be

considered as may be required.]

H] Operating Conditions: Incineration plants shall be operated in order to achieve a level of incineration such that the slag and bottom ashes Total Organic Carbon (TOC) content is less than 3% or their loss on ignition is less than 5 of the dry weight of the material. If necessary, appropriate techniques of waste pre-treatment shall be used. Incineration plants shall be designed, equipped, built and operated in such a way that the gas resulting from the process is raised after the last injection of combustion air, in a controlled and homogenous fashion and even under the most unfavorable conditions to a temperature of 850°C as measured near the inner wall or at another representative point of the combustion chamber as authorized by the Competent Authority for two seconds. If hazardous wastes with a content of more than 1% of halogenated organic substances, expressed as chlorine, are incinerated, the temperature has to be raised to 1200°C + 100 for at least two seconds.

Each line of the incineration plant shall be equipped with at least one auxiliary burner. This burner must be switched on automatically when the temperature of the combustion gases after the last injection of combustion air falls below 850°C or 1100°C as the case may be is maintained at all times during these operations and as long as unburned wastes is in the combustion chamber.

During the start up and shut down or when temperature of the combustion gas falls below : 850°C or 1100°C as line the case may be, the auxiliary burner shall not be fed with fuels emissions than those permitted.

I] Monitoring requirements: Continuous monitoring and recording system for opacity CO, SO<sub>2</sub> and NO<sub>x</sub> shall be installed and reported shall be sent to the State Pollution Control Boards on regular basis. Interlocking arrangements for CO and temperature controls (in primary and secondary chamber) with feeding devices shall also be provided waste feed has also to be terminated on loss of ignition in the after burner safety valve in case of high pressure development in the furnace.

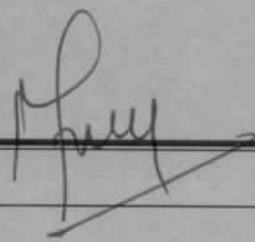
J] Notification of Compliance: The operator of the incinerator shall undertake comprehensive performance test. Within 90 days of completion of comprehensive performance test. The operator shall issue



a notification of compliance documenting compliance or non compliance, as the case may be, for public information.

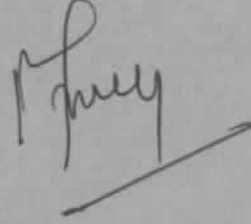
5. The Applicant shall obtain necessary prior permission for providing additional control equipment with necessary specifications and operation thereof or alteration or replacement/alteration well before its life come to an end or erection of new pollution control equipment.
6. The Board reserves its 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).

Maharashtra Pollution Control Board



**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 10 lakh	Within 15 days from the date of issue of consent	O & M of PCS	28.02.2020	30.06.2020



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 yearly statement by 30th September every year 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.
- 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.

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