

# MAHARASHTRA POLLUTION CONTROL BOARD

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

Consent No: Format 1.0/BO/CAC-CELL/EIC No :-PN-26349-15/O/CAC- 422  
Date- 68 /01/2016

To  
M/s. Mahindra Heavy Engines Pvt. Ltd.,  
Plot No. A-1/1, Village Nighoje, Tal. Khed,  
Chakan MIDC Phase IV, Chakan Pune

Subject: Consent to 1<sup>st</sup> Operate (part) for expansion & Renewal of existing consent  
by amalgamation consents under Red category

Ref:

1. Consent to Operate granted vide no. BO/CAC-Cell/EIC No. -13/18th  
CAC/CC-/CAC-1159, dtd. 04.02.2014, valid upto 30.09.2015
2. Consent to Establish granted vide no. BO/CAC-Cell/EIC No. PM-24484-  
15/CAC/7756 dtd. 30.07.2015
3. Minutes of CAC meeting dtd 09.12.2015

You application: CR1508000381

Dated: 01.08.2015

For: Consent to 1<sup>st</sup> Operate (part) for expansion & Renewal of existing consent by  
amalgamation consents

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 upto 30.09.2016
2. The CI of existing unit is Rs. 245.01/- Crs, the CI of C to E is Rs. 389.75/- Crs.=  
Total CI Rs. 634.76/- Crs. The capital investment for (part) Operate & Existing  
consent amalgamation is Rs. 395.25/- Crs (As per C. A. certificate submitted by  
the industry)
3. The Consent is valid for the manufacture of -

Sr. No.	Product / By-Product Name	Maximum Quantity
1.	Automotive Engine	97,000 Nos./Y

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	19.3	As per Schedule -I	On land for gardening
2.	Domestic effluent	30.4	As per Schedule -I	On land for gardening

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.	Test bed	1	As per Schedule -II
2.	Test Bed	1	As per Schedule -II
3.	Paint Booth	1	As per Schedule
4.	DG set (625 x 2 Nos)	2	As per Schedule
5.	DG set 125 KVA	1	As per Schedule

6. Conditions about Non Hazardous Waste

Sr. No.	Type of Waste	Quantity & UoM	Treatment	Disposal
1.	Scrap material/ metal chips	764 MTD	—	Sale

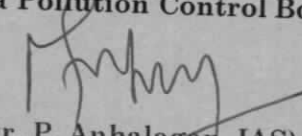
7. Conditions under Hazardous Waste (M, H & T M) Rules, 2008 for treatment and disposal of hazardous waste:

No.	Type Of Waste	Category	Quantity	UOM	Treatment	Disposal
1.	used/ spent Oil	5.1	14	KL/Y	—	authorized reprocessor
2.	waste and residue containin oil	5.2	5	MT/Y	—	CHWTSDF
3.	chemical sludge from ETP	34.3	4	MT/Y	—	CHWTSDF
4.	Discarded cobntainers	33.3	7000	Nos/Y	—	authorized reprocessor
5.	waste and residue	21.1	15	Mt/Y	—	CHWTSDF
6.	contaminated aromatic, aliphatic or naphthennic solvents	20.1	2	KL/Y	—	authorized reprocessor
7.	B-4 Used batteries		80	Nos/Y	—	authorized reprocessor
8.	wastage and residues	31.1	1	MT/Y	—	authorized reprocessor

8. This Board reserves the right to review, amend, suspend, revoke, etc. in 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.	Rs. 7,90,602/-	043252	25.07.2015	HDFC Bank

Copy to:

1. RO-MPCB Pune, He is directed to return the existing BG of Rs. 5 lakh obtained towards providing adequate stack height of 16 meter to paint booth as industry has complied the same.
2. SRO Pune-II. They are directed to ensure the compliance of the consent conditions.
3. CAO/Cess Branch/ Master File
4. Chief Accounts Officer, MPCB, Mumbai

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 not mentioned.

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

Sr. No.	Parameters	Standards as per EP Act,1986
1	pH	5.5 - 9.0
2	Oil & Grease	10
3	BOD (3 days 27°C )	30
4	Total Dissolved Solids	2100
5	Suspended Solids	100
6	COD	250
7	Chloride	600
8	Sulphate	1000

C] The treated effluent shall be disposed on land for gardening after confirming the above standards. There shall not be any discharge directly/indirectly outside the factory premises

2) A.] As per your consent application, you have provided the Sewage Treatment Plant (STP) with the design capacity not mentioned .

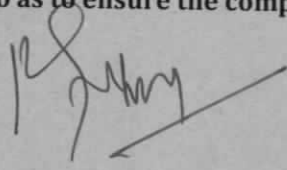
B] The Applicant shall operate the Sewage treatment plant (STP) to treat the sewage so as to achieve the following standards prescribed under EP Act, 1986 and Rules made there under from time to time, whichever is stringent.

(1)	Suspended Solids.	Not to exceed	50	mg/l
(2)	BOD 3 days 27°C.	Not to exceed	30	mg/l
(3)	COD	Not to exceed	100	mg/l

C] The treated sewage shall be disposed off on land for gardening/irrigation purpose after confirming the above standards. There shall not be any discharge directly/indirectly outside 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 extension or addition thereto.

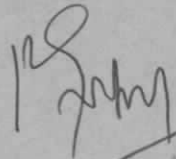
4) The industry shall ensure replacement of pollution control system or its parts after expiry of its expected life as defined by manufacturer so as to ensure the compliance of standards and safety of the operation thereof.



- 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	37
2.	Domestic purpose	38
3.	Processing whereby water gets polluted & pollutants are easily biodegradable	16
4.	Processing whereby water gets polluted & pollutants are not easily biodegradable and are toxic	3

- 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.

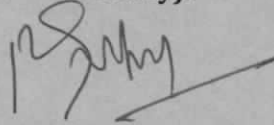


**Schedule-II**  
**TERMS & CONDITIONS for compliance of Air Pollution Control:**

1. As per your application, you have provided the Air Pollution Control (APC) System & also erected following stack(s) & to observe the following fuel pattern-

No.	Stack Attached To	APC System	Height (m)	Type of Fuel	Quantity & UoM	S%	SO <sub>2</sub> Kg/Day
1	Test bed	Online gas detector	3m above roof height	HSD Gasoline	50Kg/Hr 50Kg/Hr	1%	24
2	Test Bed	--	11	HSD	150 kg/hr	1%	72
3	Paint Booth	Mechanical filters with additional paint trap	11	--	--	--	--
4	DG set (625 x 2 Nos)	--	9.5 each	HSD	59 kg/hr	1%	28.32
5	DG set 125 KVA	--	3	HSD	13 kg/hr	1%	6.24

2. The application shall provide specific Air Pollution Control equipments as per the conditions of EP Act, 1986 & rule made there under from time to time/ Environmental Clearance / CREP guidelines. (Concern section shall mention specific control equipments).
3. The applicant shall operate & 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> |
|--------------------|---------------|------------------------|
4. 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.
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).

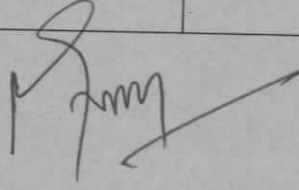


**Schedule-III**

**Details of Bank Guarantees**

**Existing to be extended**

Sr. No.	Consent (C to E/O/I)	Amt of BG Imposed	Submission Period	Purpose of BG	Compliance Period	Validity Date
1.	C to O (existing to be extended)	Rs. 20/- Lakhs	15 Days	O & M of pollution control systems	30.09.2016	31.01.2017



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 if applicable.
- 3) The applicant should monitor effluent quality, stack emissions & 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 for 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 regarding pollution levels.
- 7) The firm shall submit to this office, the 30<sup>th</sup> day of September every year, the Environmental Statement Report for the financial year ending 31<sup>st</sup> March in the prescribed Form-V as per the provisions of Rule 14 of the Environment (Protection) (Second Amendment) Rules, 1982.
- 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 & only waste which has to be incinerated shall go to incinerator & waste which can be used for land filling & cannot be recycled/ reprocessed, etc. should go for that purpose, in order to reduce load on incineration & landfill site/ environment
- 9) The industry should comply with the Hazardous Waste (M, H & TM) Rules, 2008 & submit the Annual Returns as per Rule 5(6) & 22(2) of Hazardous Wastes (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 is available on MPCB website(www.mpcb.gov.in).
- 13) 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.
- 14) Neither storm water nor discharge from other premises shall be allowed to mix with the effluents from the factory.
- 15) 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.

- 16) 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) The industry shall take adequate measures for control of noise levels from its own sources within the premises in respect of noise to less than 55 dB(A) during day time and 45 dB(A) during the night time. Day time is reckoned between 6 a.m. to 10 p.m and night time is reckoned between 10 p.m to 6 a.m.
  - d) 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.
  - e) Installation of DG Set must be strictly in compliance with recommendations of DG Set manufacturer.
  - f) 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
  - g) D.G. Set shall be operated only in case of power failure
  - h) The applicant shall comply with the notification of MoEF dated 17.05.2002 regarding noise limit for generator sets run with diesel
- 17) The applicant shall maintain good housekeeping & should not cause any nuisance in surrounding area.
- 18) 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 & number of trees planted by September end, with Environment Statement
- 19) 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
- 20) 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
- 21) 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.
- 22) The industry shall submit official e-mail address & any change will be duly informed to the MPCB
- 23) 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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