

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:- BO/CAC-Cell/EIC No:-UAN No.-0000000711-16/CAC/10420 Date-22/11/2016

To,
M/s. Cummins India Ltd.,
S. No. 3 to 7, 31(1), 32, 33, 37, 38, 41, 42 & 43,
Kothrud, Pune-411 038.

Subject: Renewal of Consent to operate with increased C.I. in RED category.

- Ref : 1. Earlier Consent granted vide no. BO/CAC-cell/EIC No. PN- 22492-14/CAC/1681
dtd. 12.02.2015.
2. Your application approved in CAC meeting held on 08.07.2016.

Your application:-CR1603000673.

Dated: 04.05.2016

For: Renewal of Consent to operate with increased C.I. 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 01.05.2016 to 30.04.2017.
- The actual capital investment of the industry is Rs. 875.87 Crs. (Existing CI Rs.809.69 Cr + Increased C.I. Rs. 66.18 Cr. as per C.A. Certificate)
- The Consent is valid for the manufacture of -

Sr. No.	Product / By-Product Name	Maximum Quantity
1.	Internal Combustion Engines	19,200 Nos./Year
2.	Spares/Accessories	48,000 MT/Year

- 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	30.2	As per Schedule -I	Maximum recycle/reused and remaining on land for gardening
2.	Domestic effluent	450	As per Schedule -I	

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

Sr. no.	Description of stack / source	Number of Stack	Standards to be achieved
1.	New KV Test cell East side (Test cells Number 4,5 & 6	1	As per Schedule -II
2.	New KV Test cell West side (Test cells Number 1,2 &3)	1	As per Schedule -II
3.	NH-NT Test cells (Even Numbers-2,4, 6, 8,10,12,14,16 & 18)- 2 Stacks/ Test cell	18	As per Schedule -II
4.	NH-NT Test cells (Odd Numbers- 1,3,5,7,9,11,13,15,17,& 19)-	10	As per Schedule -II
5.	MVIC Test cells (Earlier named SPD)	7	As per Schedule -II

Sr. no.	Description of stack / source	Number of Stack	Standards to be achieved
6.	RT & E Test cells (Numbers 1,3,6,7, 12, 16,17)-1 Stack/Test cell and (Number 4,5,8)-2 Stacks/Test cells	13	As per Schedule -II
7.	TR & E Test Cells (9,10,11,13,15)-2 Stacks/Test cells	10	As per Schedule -II
8.	Turbo Rig 1 and 2	2	As per Schedule -II
9.	Heat Treatment	1	As per Schedule -II
10.	Lubricating plant	1	As per Schedule -II
11.	Canteen1	1	As per Schedule -II
12.	Canteen2	1	As per Schedule -II
13.	Fire pump Room	1	As per Schedule -II
14.	KV paint booth	2	As per Schedule -II
15.	KIT paint booth	1	As per Schedule -II
16.	NH-NT paint booth Thermax	2	As per Schedule -II
17.	NH-NT paint booth Josts	2	As per Schedule -II
18.	KIT paint booth	1	As per Schedule -II
19.	DG set ((750 KVA-1 Nos, 1500 KVA-2 no, 2000 KVA-1 No.)	1	As per Schedule -II
20.	DG 2 (1250 KVA-1 Nos, 1500 KVA-3 no, 500 KVA-1 No.)	1	As per Schedule -II
21.	DGS 3 (750 KVA-1 Nos, 1500 KVA-2 no, 1000 KVA-1 No.)	1	As per Schedule -II
22.	DGS 4 (180 KVA)	1	As per Schedule -II

6. Conditions about Non Hazardous Wastes:

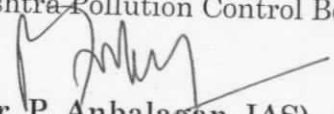
Sr. no	Type Of Waste	Quantity & UoM	Treatment	Disposal
1.	Aluminum Boring	8289.6 Kg/Y	---	sale to authorized party
2.	Wooden Scrap	5,85,640 Kg/Y	---	sale to authorized party
3.	205 lit capacity plastic barrels	480 Nos./Y	---	sale to authorized party
4.	Paper and cardboard waste	200 Ton/Y	---	sale to authorized party
5.	glass wool/rock wool/fiber waste	5 Ton/Y	---	sale to authorized party
6.	Glass waste	5 Ton/Y	---	sale to authorized party
7.	Aluminum solid	18063 Kg/Y	---	sale to authorized party
8.	Brass Solid	498 Kg/Y	---	sale to authorized party
9.	Brass Boring	2199.6 Kg/Y	---	sale to authorized party
10.	Copper boring	365 Kg/Y	---	sale to authorized party
11.	CI Boring	2,86,865 Kg/Y	---	sale to authorized party
12.	MS Heavy Melting	1,61,202 Kg/Y	---	sale to authorized party
13.	MS Sold	1,00,225 Kg/Y	---	sale to authorized party
14.	MS Turning	3,66,630 Kg/Y	---	sale to authorized party
15.	MS Unserviceable	4,11,546 Kg/Y	---	sale to authorized party
16.	MS Barrels	1073 Nos./Y	---	sale to authorized party
17.	Garbage	3,16,438 Kg/Y	---	sale to authorized party
18.	Wooden scrap (imported)	1,13,085 Kg/Y	---	sale to authorized party
19.	Batteries Waste	10 Ton/Y	---	sale to authorized party

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.	Used/Spent Oil	5.1	840.0	MT/A	---	Sale to authorized recycler
2.	Waste/Residues containing oil	5.2	840.0	MT/A	---	CHWTSDF
3.	Acid Residue	12.1	180.0	Kg/A	---	CHWTSDF
4.	Wastes and residues	21.1	13.20	MT/A	---	CHWTSDF
5.	Chemicals Sludge from waste water treatment	34.3	36.0	MT/A	---	CHWTSDF
6.	Discarded containers/barrels/liners	33.3	11000	Nos./A	---	CHWTSDF
7.	Discarded asbestos	15.2	50.0	MT/A	---	CHWTSDF
8.	E-Waste	---	1.0	MT/A	---	CHWTSDF

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 submit Board Resolution from company Board, towards installation of new machineries for line expansion of Con Rod section and changes made in building infrastructure without obtaining consent to establish from the MPC Board thus violated the provisions of Environmental Laws and in future, they will not do such violations.

For and on behalf of the
Maharashtra Pollution Control Board


(Dr. P. Anbalagan, IAS)
Member Secretary

Received Consent fee of -

Sr. No.	Amount (Rs.)	DR. No.	Date	Drawn On
1.	Rs. 17,51,754/-	0171442	02.03.2016	HDFC Bank
2.	Rs. 99,986/-	0171795	23.08.2016	HDFC Bank

Copy to:

1. Regional Officer - Pune- He is directed to return the BG of Rs. 2 lakh obtained towards submission of design details of ETP/STP as industry has complied the same.
2. Sub-Regional Officer- I, MPCB, Pune. They are directed to ensure the compliance of the consent conditions.
3. Chief Accounts Officer, MPCB, Mumbai.
4. 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 Effluent Treatment Plant (ETP) with the design capacity of 50 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) (Limiting Concentration in mg/l, except for pH)	
		Between	
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	Total Dissolved Solids	Not to exceed	2100
05	Suspended Solids	Not to exceed	100
06	COD	Not to exceed	250
07	Chloride	Not to exceed	600
08	Sulphate	Not to exceed	1000
09	Phosphate	Not to exceed	5

- C] The treated industrial effluent shall be recycled to the maximum extent and remaining treated effluent shall be utilized on land for gardening/plantation in the premises only after confirming the above standards. There shall not be any discharge outside the factory premises. Industry shall not discharge any effluent directly/indirectly into local nalla.

- 2) A] As per your consent application, you have provided the sewage treatment system with the design capacity of 500 CMD.

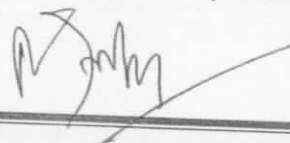
- B] The Applicant shall operate the sewage treatment system to treat the sewage so as to achieve the following standards/ prescribed under EP Act, 1986 and Rules made there under from time to time, whichever is stringent.

(1)	Suspended Solids.	Not to exceed	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 domestic effluent 420 CMD shall be reused/recycle in the process, cooling tower etc and remaining 30 CMD shall be used on land for gardening/plantation in the premises only after confirming the above standards. There shall not be any discharge outside the factory premises directly/indirectly.

- D] 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.

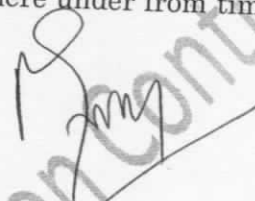
- 3) The Board reserves its rights to review plans, specifications or other data relating to plant setup for the treatment of waterworks for the purification thereof & the system for the disposal of sewage or trade effluent or in connection with the grant of any consent conditions. The Applicant shall 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	325
2.	Domestic purpose	600
3.	Processing whereby water gets polluted & pollutants are easily biodegradable	Nil
4.	Processing whereby water gets polluted & pollutants are not easily biodegradable and are toxic	86

- 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 ₂ Kg/Day
1.	New KV Test cell East side (Test cells Number 4,5 &6)	---	35	HSD	1250 lit/hr	1	600
2.	New KV Test cell West side (Test cells Number 1,2 &3)	---	35	HSD	1250 lit/hr	1	600
3.	NH-NT Test cells (Even Numbers- 2,4,6,8,10,12,14,16 & 18)- 2 Stacks/ Test cell	---	14.7 (each)	HSD	3888 lit/hr	1	1866.24
4.	NH-NT Test cells (Odd Numbers- 1,3,5,7,9,11,13,15,17, & 19)-	---	14.7 (each)	HSD	1140 lit/hr	1	547.2
5.	MVIC Test cells (Earlier named SPD)	---	14	HSD	1365 lit/hr	1	655.2
6.	RT & E Test cells (Numbers 1,3,6,7,12,16,17)-1 Stack/Test cell and (Number 4,5,8)-2 Stacks/Test cells	---	12 mtr (1, 6, 7, 8) 13 mtr (3, 12, 16, 17)	HSD/CN G	1599 lit/hr	1	767.5
7.	RT & E Test Cells (9,10,11,13,15)-2 Stacks/Test cells	---	30	HSD/CN G	1950 lit/hr	1	936
8.	Turbo Rig 1 and 2	---	9.75	HSD	390 lit/hr	1	187.2
9.	Heat Treatment	---	22	---	---	---	---
10.	Lubricating plant	---	10.66	---	---	---	---
11.	Canteen1	---	7.5	---	---	---	---
12.	Canteen2	---	9.0	---	---	---	---
13.	Fire pump Room	---	5.0	HSD	80 lit/hr	1	38.4
14.	KV paint booth	Water curtains	10.8	---	---	---	---
15.	KIT paint booth	Water curtains	10.8	---	---	---	---
16.	NH-NT paint booth Tharmax	Water curtains	13.4	---	---	---	---
17.	NH-NT paint booth Josts	Water curtains	13.4	---	---	---	---
18.	KIT paint booth	Water curtains	15	---	---	---	---
19.	DGS 1 Power house East (750 KVA-1 Nos,	---	32	HSD	1250 lit/hr	1	600

Sr. No.	Stack Attached To	APC System	Height in Mtrs.	Type of Fuel	Quantity & UoM	S %	SO ₂ Kg/Day
	1500 KVA-2 no, 2000 KVA-1 No.)						
20.	DGS 2 Power house West (1250 KVA-1 Nos, 1500 KVA-3 no, 500 KVA-1 No.)	---	32	HSD	1350 lit/hr	1	648
21.	DGS 3 Power house East (750 KVA-1 nos, 1500 KVA-2 no, 1000 KVA-1 No.)	---	35.5	HSD	1050 lit/hr	1	504
22.	DGS 4 EDP Genset (180 KVA)	---	30	HSD	45 lit/hr	1	21.6

- 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. (Concern section shall mention specific control equipments)
- 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 ³ .
--------------------	---------------	--------------------------

- 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.
- 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

Proposed BG

Sr. No.	Consent (C to E/O/R)	Amt of BG Imposed	Submissi on Period	Purpose of BG	Complian ce Period	Validity Date
1.	Consent to operate	Rs. 10 lakhs (top-up)	15 days	Towards operation and maintenance Pollution control system	Continuous	30.08.2017
2.	Consent to operate	Rs. 2 lakhs	15 days	Towards submission of Board resolution	30.11.2016	30.08.2017
3.	Consent to operate	Rs. 10 lakhs	15 days	Towards reuse/ recycle the treated trade and domestic effluent as per the consent condition.	Continuous	30.08.2017

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) Industry should monitor effluent quality, stack emissions and ambient air quality monthly/quarterly.
- 3) 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.
- 4) 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.
- 5) 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.
- 6) 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.
- 7) 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.
- 8) 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 30th June of every year.
- 9) An inspection book shall be opened and made available to the Board's officers during their visit to the applicant.
- 10) The applicant shall make an application for renewal of the consent at least 60 days before the date of the expiry of the consent (in case of Renewal of consent).
- 11) 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).
- 12) 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.
- 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) 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

17) The industry should not cause any nuisance in surrounding area.

18) 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.

19) The applicant shall maintain good housekeeping.

20) 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 31st March of the year and number of trees planted by September end, with the Environment Statement.

21) 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.

22) 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.

23) 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.

24) 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 be downloaded from MPCB official site).

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 dt. 16.11.2009 as amended.

-----0000-----

