

# MAHARASHTRA POLLUTION CONTROL BOARD

Phone : 4010437/4020781  
/4037124/4035273  
Fax : 24044532/4024068  
/4023516  
Email : apae@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

Red/L.S.I

Date: 05/02/2013

Consent No: BO/JD(APC)/EIC No. PN-10771-11/O/CC/CAC-812

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 / Renewal of Authorization under Rule 5 of the Hazardous Wastes (Management, Handling & Transboundary Movement) Rules 2008

[To be referred as Water Act, Air Act and HW (M&H) Rules respectively].

CONSENT is hereby granted to

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

located in the area declared under the provisions of the Water Act, Air act and Authorization under the provisions of HW(M&H) Rules and amendments thereto subject to the provisions of the Act and the Rules and the Orders that may be made further and subject to the following terms and conditions:

1. The Consent to Operate is granted for a period up to - 30/09/2014.
2. The Consent is valid for the manufacture of -

Sr. No.	Product Name	Maximum Quantity	UOM
1	IC Engines	19200	Nos/Yr
2	Spares/Accessories	48000	MT/Year

### 3. CONDITIONS UNDER WATER ACT:

- (i) The daily quantity of trade effluent from the factory shall not exceed 30.2 M<sup>3</sup>.
- (ii) The daily quantity of sewage effluent from the factory shall not exceed 450 M<sup>3</sup>.
- (iii) **Trade Effluent:**

Treatment: The applicant shall provide comprehensive treatment system consisting of primary / secondary and/or tertiary treatment as is warranted with reference to influent quality and operate and maintain the same continuously so as to achieve the quality of the treated effluent to the following standards:

Sr.no	Parameter	Limits
1	pH	Between 5.5 to 9.0
2	BOD 3 days 27 Deg. C	Not to exceed 100 mg/l
3	COD	Not to exceed 250 mg/l
4	SS	Not to exceed 100 mg/l.
5	Oil & Grease	Not to exceed 10 mg/l
6	TDS	Not to exceed 2100 mg/l.
7	Chlorides	Not to exceed 600 mg/l.
8	Sulphates	Not to exceed 1000 mg/l.
9	Phosphate	Not to exceed 5 mg/l.

(iv) **Trade Effluent Disposal:** The treated industrial effluent shall be recycled to the maximum extent and remaining shall used on land for gardening. There shall not be any discharge outside the factory premises. Industry should not discharge any effluent in to local nalla.

(v) **Sewage Effluent Treatment:** The applicant shall provide comprehensive treatment system as is warranted with reference to influent quality and operate and maintain the same continuously so as to achieve the quality of treated effluent to the following standards.

(1) Suspended Solids Not to exceed 100 mg/l.

(2) BOD 3 days 27o C. Not to exceed 100 mg/l.

(vii) **Sewage Effluent Disposal:** The treated domestic effluent shall be treated in STP and it shall be used on land for gardening / plantation only.

(viii) **Non-Hazardous Solid Wastes:**

S.No.	Type	Qty	UOM	Disposal
1	Aluminium Boring	8289.60	Kg/Y	sale to authorised party
2	Wooden scrap(Indienous)	585640.00	Kg/Y	sale to authorised party
3	205 Lit capacity plastic barrels	480	Nos./Y	sale to authorised party
4	Paper and cardboard waste	200	Ton/Y	sale to authorised party
5	glass wool/rock wool/fibre waste	5	Ton/Y	sale to authorised party
6	Glass waste	5	Ton/Y	sale to authorised party
7	Aluminium solid	18063	Kg/Y	sale to authorised party
8	Brass solid	498	Kg/Y	sale to authorised party
9	Brass boring	2199.60	Kg/Y	sale to authorised party
10	Copper boring	365	Kg/Y	sale to authorised party
11	CI Boring	286865	Kg/Y	sale to authorised party
12	MS Heavy Melting	161202	Kg/Y	sale to authorised party
13	MS Sold	100225	Kg/Y	sale to authorised party
14	MS Turning	366630	Kg/Y	sale to authorised party
15	MS Unserviceable	411546	Kg/Y	sale to authorised party
16	MS Barrels	1073	Nos./Y	sale to authorised party
17	Garbage	316438	Kg/Y	sale to authorised party
18	Wooden Scrap(Imported)	113085	Kg/Y	sale to authorised party

(viii) **Other Conditions:** Industry should monitor effluent quality regularly.

4. The applicant shall comply with the provisions of the Water (Prevention & Control of Pollution) Cess Act, 1977 (to be referred as Cess Act) and amendment Rules, 2003 there under

The daily water consumption for the following categories is as under:

(i)	Domestic	600 CMD
(ii)	Industrial Processing	36 CMD
(iii)	Industrial Cooling	325 CMD
(iv)	DM / soft rejects (backwash water)	0 CMD
(v)	Agriculture / Gardening	0 CMD

The applicant shall regularly submit to the Board the returns of water consumption in the prescribed form and pay the Cess as specified under Section 3 of the said Act.

**5. CONDITIONS UNDER AIR ACT :**

(i) The applicant shall install a comprehensive control system consisting of control equipments as is warranted with reference to generation of emission and operate and maintain the same continuously so as to achieve the level of pollutants to the following standards:

**1. Control Equipment:**

1. Fume extraction system followed by dust collection system of sufficient capacity shall be provided to all dust generating locations and all sources of SPM/TPM shall be operated properly and continuously.
2. Painting activity shall be carried out in an enclosure.
3. There shall not be any secondary (fugitive) emissions.

**b. Standards for Emissions of Air Pollutants:**

S. No.	Parameters		Limit	Unit
i	SPM / TPM	Not to exceed	150	Mg / Nm <sup>3</sup>
ii	SO <sub>2</sub>	Not to exceed	8.0	T / day

The applicant shall observe the following fuel pattern:-

S No.	Type of Fuel	Quantity	Unit
1.	LPG	8.0	Mt/M
2.	HSD	1200	KL/M
3.	CNG	20000	Kg/M

(i) The applicant shall erect the chimney(s) of the following specifications:-

S.No.	Stack Attached	Height
1	Power House East(750KVA,1500KVA-2Nos,2000KVA)	32.00
2	New KV Test Cell west side(test cells No.1,2,3)	35.00
3	KIT Paint Booth	10.80
4	SPD Test cells (7 Nos)	10.00
5	NH-NT Paint Booth Thermax (2 Nos)	13.40
6	NH-NT Paint Booth Josts (2 Nos)	13.40
7	New KV Test Cell East side(Test cells No.4,5 &6)	35.00
8	NH-NT Test Cells(Even No.2,4,6,8,10,12,14,16,18)-2 Stacks/test cells	14.70
9	NH-NT Test Cells(OddNo.1,3,5,7,9,11,13,15,17,19)	14.70
10	QSK Paint Booth	20.00
11	QSK Test Cells(Nos.1,2,3)	30.00
12	Unit 4 Power House(750KVA,1500KVA-	35.50

	2Nos,1000KVA)	
13	RT &E Test cells(Nos.9,10,11,13,15)-2 stacks/test cells	30.00
14	RT &E Test cells(Nos-1,2,3,4,5,6,7,8)-1Stack/test cells & 12,14,16-2 stack/test cells	24.00
15	Heat Treatment	22.00
16	Lubriting Plant	10.66
17	Canteen1	7.50
18	KIT Paint Booth	15.00
19	Canteen2	9.00
20	Fire Pump Room	5.00
21	Power House West(1250KVA,1500KVA-3Nos,500KVA)	32.00
22	EDP Genset(180KVA)	30.00
23	KV Paint Booth	10.80

(\* above roof level)

- (ii) 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.
- (iii) 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.
- (v) **Other Conditions:**
- 1) The industry should not cause any nuisance in surrounding area.
  - 2) The industry should monitor stack emissions and ambient air quality Regularly.

**6. CONDITIONS UNDER HAZARDOUS WASTE (MANAGEMENT, HANDLING & TRANSBOUNDARY MOVEMENT) RULES, 2008:**

(i) The Industry shall handle hazardous wastes as specified below.

S.No.	Hazardous Waste Category	Qty	UOM	Disposal
1	5.1 Used /spent oil	840.00	CUM/Y	Sent to authorized reprocessor
2	5.2 Wastes/residue containing oil	840.00	MT/Y	CHWTSDf
3	12.1 Acid residues	180.00	Kg/Y	CHWTSDf
4	21.1 Wastes and residues	13.20	MT/Y	CHWTSDf
5	34.3 Chemical sludge from waste water treatment	36.00	MT/Y	CHWTSDf
6	33.3 Discarded containers / barrels / liners	11000.00	Nos/Y	CHWTSDf
7	15.2 Discarded asbestos	50.00	T/Y	CHWTSDf

- i. Treatment: NIL
  - a. 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.
  - b. The unit has to display and maintain the data online outside the factory main gate in Marathi & English both on a 6'x4' display board in the manner and the report of the compliance along with photograph shall be submitted to this office & concerned Regional Office/ Sub Regional Office.
  - c. It shall be ensured that the Hazardous waste is handled, managed & disposed of strictly in accordance with the **Rule 5 of the Hazardous Wastes (Management, Handling & Transboundry Movement) Rules 2008** and shown & submitted to the Board as & when asked for.
7. **Industry shall comply with following additional conditions:**
  - i. The applicant shall maintain good housekeeping and take adequate measures for control of pollution from all sources so as not to cause nuisance to surrounding area / inhabitants.
  - ii. The applicant shall bring minimum 33% of the available open land under green coverage/ tree plantation.
  - iii. Solid waste – 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 to dumping ground.
  - iv. The applicant shall provide for an alternate electric power source sufficient to operate all pollution control facilities installed by he applicant 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 & conditions of this consent regarding pollution levels.
  - v. The applicant shall not change or alter 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.
  - vi. The applicant shall provide facility for collection of environmental samples and samples of trade and sewage effluents, air emissions and hazardous wastes to the Board staff at the terminal or designated points and shall pay to the Board for the services rendered in this behalf.
  - vii. The applicant shall make an application for renewal of the consent at least 60 days before the date of the expiry of the consent.
  - viii. 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 pre the provisions of rule 14 of the Environment (Protection) (Second Amendment) Rules, 1992.
  - ix. As inspection book shall be opened and made available to the Board's officers during their visit to the applicant.
  - ix. The applicant shall install a separate electric 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.


X. Separate drainage system shall be provided for collection of trade and sewage effluents. Terminal manholes shall be provided at the end of collection system with arrangement for measuring the flow. No effluent shall be admitted in the pipes / sewers down- stream of the terminal manholes. No effluent shall find its way other than in designed and provided collection system.

xii. Neither storm water nor discharge from other premises shall be allowed to mix with the effluents from the factory.

8. This is issued with approval of Consent Appraisal Committee meeting of the Board held on dtd. 31/01/2013.

9. You shall submit Bank Guarantee of Rs. 5/- Lakh in favor of Regional Officer Pune within 15 days against operation & maintenance of effluent treatment plant to achieve consented standards. The Bank Guarantee shall be valid up to 30/09/2014

10. The Capital investment of the industry is Rs. 801.75 Crores.

  
(Rajeev Kumar Mital IAS)  
Member Secretary

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

Copy to:

RO- Pune /SRO- Pune-I - They are directed to obtain the BG of Rs.5/- Lakhs from the industry & submit the compliance report within 1 month period  
CAO/Cess Branch/Master File

Received Consent fee of -

Sr. No.	Amount	DD. No.	Date	Drawn On
1	Rs. 32,07,136/-	128265	13/08/2012	HDFC Bank
2	Rs. 4,00,000/-	128266	13/08/2012	HDFC Bank
3	Rs. 23,75,929/-	129664	07/11/2012	HDFC Bank