

# MAHARASHTRA POLLUTION CONTROL BOARD

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KALPATARU POINT, 3<sup>rd</sup> Floor,  
Sion-Matunga Scheme Rd. No.8,  
Opp. Sion Circle, Sion (East),  
Mumbai-400 022.

Green/LSI

Consent No. MPCB/JD(APC)/ EIC NO NK-9893-11/O/CC-204 Date: 09/02/2012.

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 (MH & TM) Rules respectively].

CONSENT is hereby granted to

**M/s. Cummins Generator Technologies Ltd.,**  
**Plot No.C-33, MIDC Ahmednagar,**  
**Dist: Ahmednagar.**

located in the area declared under the provisions of the Water Act, Air act and Authorization under the provisions of HW(MH&TM) 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 – 31.07.2013**
2. **The Consent is valid for the manufacture of -**

Sr. No.	Product	Maximum Quantity
1	A.C. Generators/Alternators	4500 Nos./Month
2	Generator Parts	As per Requirement

### 3. CONDITIONS UNDER WATER ACT:

- (i) The daily quantity of trade effluent from the factory shall be 1.0 m<sup>3</sup>
- (ii) The daily quantity of sewage effluent from the factory shall not exceed 40.0 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:

1)	pH	Between	5.5 to 9.0
2)	Suspended Solids	Not to exceed	100 mg/l.
3)	BOD 3 days 27°C	Not to exceed	100 mg/l.
4)	COD	Not to exceed	250 mg/l.
5)	Oil & Grease	Not to exceed	10 mg/l.
6)	TDS	Not to exceed	2100 mg/lit.
7)	Chlorides	Not to exceed	600 mg/l.
8)	Sulphates	Not to exceed	1000 mg/l.

- (iv) **Trade Effluent Disposal:** The treated effluent shall be recycled / reused to maximum extent and remaining shall be used on land for gardening within factory premises. There shall not be any discharge of effluent outside factory premises. The Industry shall become member of CETP as and when proposed.
- (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 27° C.	Not to exceed	100	mg/l.

(vi) **Sewage Effluent Disposal:** The treated effluent shall be recycled / reused to maximum extent and remaining shall be used on land for gardening within factory premises. There shall not be any discharge of effluent outside factory premises.

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

Sr. No.	Type of waste	Quantity	Treatment	Disposal
1.	Aluminium Scrap	85 Kg/Month	--	Sale
2.	Alternator/Assly/Subassly scrap	8642 Kg/Month	--	Sale
3.	Casting Scrap	508 Kg/Month	--	Sale
4.	Copper Scrap	2378 Kg/Month	--	Sale
5.	Electrical Steel Scrap	439 Kg/Month	--	Sale
6.	MS Steel Heavy Scrap	833 Kg/Month	--	Sale.
7.	MS Steel Light Scrap	5546 Kg/Month	--	Sale
8.	Scrap Corrugated	482 Kg/Month	--	Sale
9.	Scrap Bonin Plastic Small	318 Kg/Month	--	Sale
10.	Scrap Garbage	7393 Kg/Month	--	Sale
11.	Scrap Plastic	36 Kg/Month	--	Sale
12.	Wooden Scrap	9012 Kg/Month	--	Sale.

(viii) **Other conditions:** The industry shall 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 Rules there under: The daily water consumption for the following categories is as under:

Domestic	50.0 CMD
Industrial processing generating Bio-Degradable waste water	1.8 CMD
Industrial processing generating Non-Bio-Degradable waste water	--- CMD
Industrial Boiler/Cooling etc.	--- CMD
Any other and gardening.	22.0 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:

**A) Control Equipment:**

- 1) Adequate Fume extraction system followed by dust collector of sufficient capacity shall be provided to oven & all dust generating locations and operate properly and continuously so as to achieve the following standards.
- 2) Painting activities shall be carried out in paint booth only and operate and maintain properly.
- 3) There shall not any secondary (fugitive) emissions.

**B) Standards for Emissions of Air Pollutants:**

(i)	SPM/TPM	Not to exceed	150 mg/Nm <sup>3</sup>
(ii)	SO <sub>2</sub>	Not to exceed	72 Kg/day

**C) 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.

*Entze*

- 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 75 dB(A) during day time and 70 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 should not cause any nuisance in the surrounding area due to operation of D.G. Set.

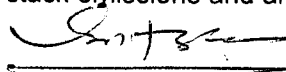
(iii) **The applicant shall observe the following fuel pattern:-**

<u>Sr.No.</u>	<u>Type of Fuel</u>	<u>Quantity.</u>
1.	LPG	300 KG/Day
2.	HSD	183 Ltrs./Day

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

<u>Sr.No.</u>	<u>Chimney attached to</u>	<u>Height in Mtrs.</u>
1.	D.G. Set 500 KVA	} 5 Mtrs. above the building roof
2.	D.G. Set (250 KVA)	
3.	UC Line Oven No.1	
4.	BC Line Oven No.1	
5.	BC Line Oven No.2	
6.	BC Gel Coal Booth No.1	
7.	BC Gel Coal Booth No.2	
8.	UC Gel-Coat Booth	
9.	HC Gel-Coat Booth No.1	
10.	HC Gel-Coat Booth No.2	
11.	HC Final Paint Booth	
12.	BC Final Gel Coat Booth	
13.	UC final paint Booth	
14.	Hot Roll Dip Machine No.1	
15.	Hot Roll Dip Machine No.2	
16.	UC Line Oven No.2	
17.	HC Line Oven No.1	
18.	HC Line Oven No.2	
19.	UC Dip Tank Fume Extraction System	
20.	BC Dip Tank Fume Extraction System	
21.	HC Dip Tank Fume Extraction System	
22.	HC-MIG Welding Fume Extraction Duct-Outlet	
23.	BC-MIG Welding Fume Extraction Duct-Outlet	
24.	UC-MIG Welding Fume Extraction Duct-Outlet	
25.	V.P.I. Plant Exhaust	

- (vi) 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.
- (vii) 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.
- (viii) **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 (MH & TM) RULES, 2008:**

(i) The applicant shall handle hazardous waste as specified below:-

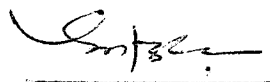
Sr. No.	Item No. of Process Generating H.W. as per schedule-I	Type of Waste	Quantity	Disposal
1.	5.1	Used/Spent Oil	2.5 KL./Yr.	CHWTSDF
2	5.2	Oily Gloves	13 MT/Yr.	CHWTSDF
3	34.3	ETP Sludge	14 MT/Yr.	CHWTSDF
4	23.1	Resin Residue	1.6 MT/Yr.	CHWTSDF
5	21.1	Paint Residue	35 MT/Yr.	CHWTSDF
6	33.3	Discarded Container of Various sizes	10,500 Nos./Yr.	CHWTSDF

(ii) The authorization is here by granted to operate a facility for collection, storage, transport & disposal of hazardous waste.

7. 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.

**8. General conditions:**

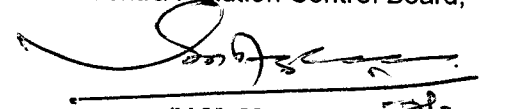
- (i) The applicant shall bring minimum 33% of the available open land under green coverage/ plantation. The applicant shall submit a yearly statement by 30<sup>th</sup> September every year on available open plot area, no. of trees surviving as on 31<sup>st</sup> March of the year and no. of trees planted by September end.
- (ii) The applicant shall provide for an alternate electric power source sufficient to operate all pollution control facilities installed by he applicant and operate the same in case of power failure to maintain compliance with the terms and conditions of the consent. In the absence of same, the applicant shall stop, reduce or otherwise, control production to abide by terms & conditions of this consent regarding pollution levels.
- (iii) 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.
- (iv) The firm shall submit MPCB, 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 before 30<sup>th</sup> September every year.
- (v) 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. The applicant shall also submit a comparative statement of designed power and chemical consumptions vis-a vis actual power and chemical consumption along with Environmental statement.
- (vi) 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. Neither storm water nor discharge from other premises shall be allowed to mix with the effluents from the factory.
- (vii) 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. An inspection book shall be opened and made available to the Board's officers during their visit to the applicant.



- (viii) 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.
- ix) The applicant shall maintain good house keeping and take adequate measures for control of pollution from all sources so as not to cause nuisance to surrounding area / inhabitants.
9. This Board reserves the right to amend or add any conditions in this consent and the same shall be binding on the Applicant.
10. The application shall submit an irrevocable Bank Guarantee of Rs.2,00,000/- drawn in favour of Regional Officer, MPCB, Nasik within 15 days valid for one year towards performance of pollution control system and compliance of consent conditins.
11. The applicant shall erect the Chimney as per CPCB standards within two months.
12. This is issued pursuant to the decision of Consent Committee meeting of the Board held on 12<sup>th</sup> January, 2012.
13. The total capital investment of industry is Rs.31.14 Crores.

This is issued as per the Office Note dated 02.02.2012 approved by the Hon'ble Chairman of the Board.

For and On Behalf of the  
Maharashtra Pollution Control Board,

  
(V.M. Motghare)  
Joint Director (Air Pollution Control)

To,  
M/s. Cummins Generator Technologies Ltd.,  
Plot No.C-33, MIDC Ahmednagar,  
Dist: Ahmednagar.

Copy to:

1) Regional Officer, MPCB, Nashik 2) Sub-Regional Officer, MPCB, Nashik

3) Received Consent fee of -

<u>Amount</u>	<u>D.D.No.</u>	<u>Date</u>	<u>Drawn on</u>
Rs. 1,50,100/-	298918	31.05.2011	HDFC Bank
Rs. 16,666/-	299550	22.11.2011	HDFC Bank
Rs. 8334/-	299549	22.11.2011	HDFC Bank
Rs. 50,000/-	299573	29.11.2011	HDFC Bank

Consent Fees received as per revised consent fee GR of Env Deptt, GoM, dated 25.8.2011.

4] Cess Branch, MPCB.