

MAHARASHTRA POLLUTION CONTROL BOARD

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Kalpataru Point, 2nd - 4th Fl.

Opp. Cine Planet Cinema,

Near Sion Circle, Sion (E)

Mumbai-400 022.

BO/JD(APC)/EIC No.NK-14457-13/R/CC-9316

Date: 06/11/2013.

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 & Transboundry Movement) Rules 2008

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

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CONSENT is hereby granted to

M/s. Kirloskar Oil Engines Ltd.
(Large Engine Plant),
Plot No. A-11/1, MIDC Ambad,
Dist: Nashik - 422010

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 30/06/2016.
2. The Consent is valid for the manufacture of -

Sr. No.	Product Name	Maximum Quantity	UOM
1	Diesel Engines, D.G Sets	4	Nos./Month

3. CONDITIONS UNDER WATER ACT:

- (i) The daily quantity of trade effluent from the factory shall not exceed 2.0 M³.
- (ii) The daily quantity of sewage effluent from the factory shall not exceed 16.0 M³.
- (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	BOD 3 days 27 deg C	Not to Exceed	30 mg/l
3	COD	Not to Exceed	250 mg/l
4	Suspended solids	Not to Exceed	100 mg/l
5	Oil & Grease	Not to Exceed	10 mg/l
6	Sulphates	Not to Exceed	1000 mg/l
7	Chloride	Not to Exceed	600 mg/l
8	Total Dissolved Solids	Not to Exceed	2100 mg/l

(iv) **Trade Effluent Disposal:** The treated effluent shall be reused/recycled to maximum extent & excess if any shall be used on land for gardening only within premise. There shall not be any discharge outside the factory premise. 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 27o C.	Not to exceed	100	mg/l.

(vi) **Sewage Effluent Disposal:** The treated effluent shall be reused/recycled to maximum extent & excess if any shall be used on land for gardening only within premise. There shall not be any discharge outside the factory premises.

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

Sr. No.	Type Of Waste	Quantity	UOM	Treatment	Disposal
1	Metal Scrap	400	Kg/Month	---	By Sale to authorised party
2	Electrical assorted material scrap	300	Kg/Month	---	
3	Assorted Grinding Scrap	80	Kg/Month	---	
4	Plastic Scrap	150	Kg/Month	---	
5	Non serviceable scrap/garbage	500	Kg/Month	---	

viii) **Other Conditions:** The industry shall monitored 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:

Domestic	20.0 CMD
Industrial Processing generating Bio-Degradable waste water	02.0 CMD
Industrial Processing generating Non Bio-Degradable waste water	0.0 CMD
Industrial Boiler/Cooling etc.	38.0 CMD
Other such as agriculture, gardening etc.	0.0 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:

- i) Fume extraction system followed by dust collecting system provided to all sources of SPM/TPM shall be operated properly & continuously so as to achieve following standards.
- ii) There shall not any secondary (fugitive) emissions.

b. 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 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.

c. Standards for Emissions of Air Pollutants:

- (i) The applicant shall observe the following fuel pattern:-
- | | | | |
|----|-----------------|---------------|------------------------|
| a) | SPM/TPM | Not to exceed | 150 mg/Nm ³ |
| b) | SO ₂ | Not to exceed | 50 kg/day |

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

Sr.No.	Type of Fuel	Quantity
1.	HSD	2500 Lit/day

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

Sr. No.	Chimney Attached to	Height in Mtrs.
1	Engine test Bench (In line)	17
2	Engine test Bench (v)	17
3	Stand by DG set 1500 rpm	12
4	Furnace- Tempering (stress relieving)	12
5	DG Set bench	30
6	Stand by DG set 1000 rpm	15

- (iv) 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 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 facilities identification.
- (v) The industry shall take adequate measures for control of noise levels from its own sources within the premise 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.
- (vi) **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.

Sr. no.	Type of waste	Qty	UOM	Disposal
1	5.1 Used / Spent Oil	19	KL/Month	Sale to MPCB authorized recycler/reprocessors.
2	5.2 Waste oil/residue containing oil	1.0	KL/Month	
3	34.3 Chemical sludge from waste water treatment	350	Kgs/Month	CHWTSDF
4	33.3 Discarded containers / barrels/liners contaminated with hazardous waste/chemicals	350	Nos./Month	
5	21.1 Paint residue/waste	50	Kg/Month	

- (ii) Treatment:- NIL

The authorization is hereby granted to operate a facility for collection, storage, transport & disposal of hazardous waste. The industry should comply with the Hazardous Waste (M.H & TM), Rules, 2008. The unit has to disposal and maintain the data online outside the factory main gate in Marathi & English both on a 6x4 display board in the manner and report of the compliance along with photograph shall be submitted to this office & concerned Regional Office/Sub Regional Office.

It shall be ensured that the Hazardous waste is handled, managed & disposal of strictly in accordance with the Hazardous waste (Management, /handling & Transboundary Movement) Rules, 2008 and shown & submitted to the Board as & when asked for.

7. Whenever due to any accident or other unforeseen act or act or even, such emissions occur or is apprehended to occur in excess of standards laid down, such information shall be forthwith Reported to this 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 shall be stopped.
8. **General 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 30th day of September every year, the Environmental Statement Report for the financial year ending 31st 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.

- x. 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.
- xi. 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.
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. This is issued pursuant to the decision of Consent Committee meeting held on 15th October 2013.
11. Industry shall submit B.G. of Rs. 5.0 Lakhs valid upto 31/10/2016, towards operation & maintenance of pollution control system.
12. The total capital investment of industry is Rs. 50.84 Lacs.

For and On Behalf of the
Maharashtra Pollution Control Board,

(Rajeev Kumar Mital, IAS)
Member Secretary

To,
M/s. Kirloskar Oil Engines Ltd.
(Large Engine Plant),
Plot No. A-11/1, MIDC Ambad,
Dist: Nashik 422010.

Copy to:

- 1) Regional Officer, MPCB, Nashik.

He is directed to obtain Bank Guarantee as per consent condition no.11 and submit the Compliance report of the industry within one month period.

- 2) Sub-Regional Officer, Nashik, MPCB, Nashik.-
3) Chief Accounts Officer, MPCB, Nashik
4) Cess Branch/Master File

Industry has paid the consent fees as per the Environment Department G.R.dated 25.08.2011.

Sr. No.	Amount(Rs.)	DD. No.	Date	Drawn On
1	3,00,000	105215	19/06/2013	HDFC Bank
2	50,000	381856	28/06/2013	HDFC Bank