

MAHARASHTRA POLLUTION CONTROL BOARD

Tel: 24010437/24020781/24014701

Fax: 24024068 / 24023516

Website: <http://mpcb.gov.in>

E-mail: apac@mpcb.gov.in



Kalpataru Point, 2nd - 4th Fl.

Opp. Cine Planet Cinema,

Near Sion Circle, Sion (E)

Mumbai-400 022.

Red/L.S.I

Consent No: BO/JD(APC)/EIC No. KP-11725-12/R/CC/CA-2928 Date: 08/04/2013

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 & 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. Kirloskar Oil Engines Ltd.

Plot no. D-1, MIDC Kagal-Hatkanangale Indl. Estate,

A/P:- Talandage, Tal- Hatkanangale, Dist- Kolhapur.

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 thereof 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 - 28/02/2015.

2. The Consent is valid for the manufacture of -

Sr. No.	Product Name	Maximum Quantity	UOM
1	IC Engines	8000	Nos/M
2	Gen Set	1500	Nos/M
3	Pumps	8000	Nos/M

3. CONDITIONS UNDER WATER ACT:

(i) The daily quantity of trade effluent from the factory shall not exceed 70.0 M³.

(ii) The daily quantity of sewage effluent from the factory shall not exceed 90.0 M³.

(iii) Trade Effluent :

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

Sr.no	Parameter	Limits
1	pH	Between 5.5 to 9.0
2	Temperature	Should not exceed 5 c above the ambient temperature of the receiving body
3	BOD 3 days 27 Deg. C	Not to exceed 30 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/l.
7	Chlorides	Not to exceed 600 mg/l.
8	Sulphates	Not to exceed 1000 mg/l.
9	Lead	Not to exceed 0.1 mg/l.
10	Copper	Not to exceed 3.0 mg/l.
11	Nickel	Not to exceed 3.0 mg/l.

- (iv) **Trade Effluent Disposal:** The metal bearing industrial effluent shall be segregated and reused back into process and remaining treated effluent shall be used on land for gardening..
- (v) **Sewage Effluent Treatment:** The applicant shall provide comprehensive treatment system as is warranted with reference to influent quality and be able to 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 domestic effluent shall be disposed in a soak pit, which shall be got cleaned periodically. Overflow, if any, shall be used on land for gardening / plantation only.

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

Sr. No.	Type of Waste	Quantity	Disposal
1	Ferrous metal scrap	487 MT/M	Sale to authorized reprocessor
2	Non Ferrous metal scrap	20 MT/M	Sale to authorized reprocessor
3	Wooden scrap	78 MT/M	By Sale
4	Rubber Plastic	116 MT/M	By Sale
5	Empty barrels	40000 Nos/M	Sale to authorized reprocessor

(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 its amendment Rules, 2003 there under**

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

(i) Domestic	...	100.00 CMD
(ii) Industrial Processing	...	75.00 CMD
(iii) Industrial Cooling	...	60.00 CMD
(iv) Agriculture / Gardening	...	100.00 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:

- Fume extraction system followed by dust collecting system of sufficient capacity shall be provided to all sources of SPM/TPM
- The industry shall take all the necessary precautions to control noise pollution from the industrial activities and also the nuisance due to vibration generated due to hammering operations. The industry shall take suitable acoustic measures including shielding, enclosures, noise barriers etc. to control the noise levels within the norms stipulated to avoid nuisance in the surrounding.

6. 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 should not cause any nuisance in the surrounding area due to operation of D.G. Set

Standards for Emissions of Air Pollutants:

- (i) SPM/TPM Not to exceed 150 mg/Nm³
- (ii) SO₂ Not to exceed 3200 Kg/Day

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

Sr. No.	Type Of Fuel	Quantity	UOM
1	HFO	33	MT/D
2	HSD	30	MT/D
3	LPG	25	MT/D

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

Sr. No.	Chimney Attached To	Height in Mtrs.
1	Medium Engine Test beds (10 nos.)	33
2	Powder coating section (Engine Component) 2 nos	3.5*
3	Genset Test beds (7 nos.)	33
4	Small Engine testing (4 nos.)	33

5	ME Paint Booth (2 nos.)	12
6	ME Paint Booth (4 nos.)	12
7	Pump set paint booth (4 nos.)	12
8	Gen set (600 KVA -5 nos.)	13
9	Gen Set (5625 KVA)	50
10	Thermic Fluid Heater	11
11	Pump set test	33
12	SE Paint booth	3.5*
13	Pump set paintbooth	12
14	Gen Set (125 KVA)	12
15	Fire Hydrant pump driving engine	13
16	Proto cell gen set testing	15
17	Shot blasting and powder coating section	11
18	Powder coating section (Canopy) (3 nos)	15

- (iii) 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 chimneys shall be attached to various sources of emission shall be designated by number such as S-1, S-2, etc. and these shall be painted/displayed to facilitate identification.
- (iv) 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.
- (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.

7. CONDITIONS UNDER HAZARDOUS WASTE (MANAGEMENT, HANDLING & TRANSBOUNDRY MOVEMENT) RULES, 2008:

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

Sr. N	Type Of Waste	Quantity	UOM	Disposal
1	5.1 & 5.2 Used & Waste Oil	6.5	K Litr/Day.	Sale to authorized processor
2	21.1 Paint sludge	5	MT/M	CHWTSDF
3	34.3 ETP Sludge	2	MT/M	CHWTSDF
4	SC-II-B/B-19- Grinding Dust	1	MT/M	To authorize processor
5	20.1 Contaminated solvent	0.2	MT/M	CHWTSDF
6	SC-IV/22- Lead Acid Batteries	500	kg/M	CRCB-Recycler
7	12.5 Phosphate sludge	800	Kg/M	CHWTSDF
8	33.3 Discarded liners contaminated with powder	1500	Kg/M	CHWTSDF
9	21.1 Waste Epoxy powder	2000	Kg/M	CHWTSDF
10	21.1 Waste shots after shot blasting	2000	Kg/M	CHWTSDF
11	33.3 Discarded contaminated drums, empty aerosol bottles	1900	Nos/M	CHWTSDF
12	5.2 Oil soaked cotton waste	2	MT/M	CHWTSDF
13	Waste rockwool/ glass tissue paper	700	Kg/M	CHWTSDF
14	Waste softner resin	700	Kg/Yr.	CHWTSDF

15	E-Waste	1000	Kg/M	To authorized reprocessor
16	Grinding wheels	2	MT/Yr.	To authorized reprocessor
17	Filter paper, oil filters	600	Kg/M	CHWTSDF
18	Used tube lights / bulbs	200	Kg/M	CHWTSDF

(ii) Treatment: - NIL

1. The authorization is hereby granted to operate a facility for collection, storage, transport & disposal of hazardous waste.
2. The industry should comply with the Hazardous Waste (M&H) Rules, 2003.

- 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 equipment, 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 as the report of the compliance along with photograph shall be submitted to the 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 Hazardous Waste (Management & Handling) Rules, 1989 as amended on 2003 and shown & submitted to the Board as & when asked for.

8. 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 the applicant to maintain compliance with the terms and conditions of the consent. In the absence of 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 per 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. The Capital investment of the industry is Rs. 532.64/- Crs.
 10. The industry shall submit the Bank Guarantee of Rs.5/- Lakhs at Regional Office, Kolhapur within 15 days period towards operation and maintenance of pollution control system.
 11. This is issued with the approval of Consent Appraisal Committee meeting held on 19/03/2013.


 (Rajeev Kumar Mittal, IAS)
 Member Secretary

To,
 M/s. Kirloskar Oil Engines Ltd.,
 Plot no. D-1, MIDC Kagal-Hatkanangale Indl. Estate,
 Tal- Hatkanangale, Dist- Kolhapur.

Copy to:

RO- MPCB Kolhapur /SRO-MPCB Kolhapur

- They are directed to submit the detail report of air pollution control within month period & obtain BG of Rs.5/- Lakhs from the industry.

CAO/Cess Branch/Master File

Received Consent fee of -

Sr. No.	Amount(Rs.)	DD. No.	Date	Drawn On
1	Rs.21,30,598/-	942594	29/10/2012	HDFC
2	Rs.100/-	942595	29/10/2012	HDFC
3	Rs.75,000/-	943082	27/11/2012	HDFC