

MAHARASHTRA POLLUTION CONTROL BOARD

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

RED/LSI

Consent No. BO/JD(APC) EIC NO RD-2144-11/E/CC- 176

Date: 30/01/2012

Consent to Establish under Section 25 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 (MH & TM) Rules respectively].

CONSENT is hereby granted to

M/s. Wartsila India Limited,
S.No.105, Near MSEB Sub-Station,
Vill: Tambati, Taluka: Khalapur,
Dist: Raigad.

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 Establish is granted for a period up to - Commissioning of the unit or 5 year which is earlier.

2. The Consent is valid for the manufacture of -

Sr. No.	Product	Maximum Quantity
1.	DG Sets	40 Nos./Month
2.	Auxiliary Modules	400 Nos./Month
3.	Propulsion Equipments	100 Nos./Month
4.	Ecotech Products	100 Nos./Month
5.	Accessories for DG Set	100 Nos./Month
6.	Reconditioning of engines, engine components & propulsion equipments	6000 Nos./Year

3. CONDITIONS UNDER WATER ACT:

(i) The daily quantity of trade effluent from the factory shall not exceed 14.0 m³.

(ii) The daily quantity of sewage effluent from the factory shall not exceed 10.0m³.

(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:

		Between	
1	pH		5.5 to 9.0
2	Suspended Solids	Not to exceed	100 mg/l.
3	BOD 3 days 27 Deg. 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	Total Dissolved Solids	Not to exceed	2100 mg/l.
7	Chlorides	Not to exceed	600 mg/l.
8	Sulphate	Not to exceed	1000 mg/l.
9	CR+6(as Cr)	Not to exceed	2 mg/l.
10	Zinc	Not to exceed	5 mg/l.

(iv) **Trade Effluent Disposal:** The treated effluent shall be used on land for gardening. There shall not be any discharge outside the factory.

(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 domestic effluent shall be soaked 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	Treatment & Disposal
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(viii) **Other conditions:**

1. 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:

(i) Domestic	14.0 CMD
(ii) Industrial processing	17.0 CMD
(iii) Industrial Cooling	--- CMD
(iv) Industrial Boiler/Cooling etc.	3.0 CMD
(v) Any other and gardening.	1.0 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) Dust collection system of sufficient capacity shall be provided to shot blasting section and at all sources of SPM emissions.
- 2) There shall not be generation of secondary emission.
- 3) Industry shall provide adequate air pollution control equipments to control air emissions at paint booth section.

B) Standards for Emissions of Air Pollutants:

- | | | | |
|------|-----------------|---------------|------------------------|
| (i) | SPM/TPM | Not to exceed | 150 mg/Nm ³ |
| (ii) | SO ₂ | Not to exceed | 10 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.

- 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

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

<u>Sr.No.</u>	<u>Type of Fuel</u>	<u>Quantity</u>
1.	HSD	500 Kg/Hr

(iii) **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.	Engine	30
2.	Shot Blast	18
3.	Paint Booth	15
4.	D G Set (500 KVA)	15

- (v) 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.
- (vi) 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.
- (vii) **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.	Type Of Waste	Quantity	UOM	Disposal
1	5.1 Used/Spent oil	300	Kgs/Annum	Sell to authorized recycler
2	21.1 Paint Residue	3000	Kg/Annum	At CHWT/SDF
3	34.3 ETP Sludge	100	Kg/Annum	At CHWT/SDF

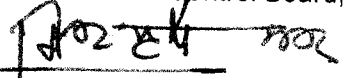
- (ii) The authorization is here by granted to operate a facility for collection, storage, transport & disposal of hazardous waste.

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 30th September every year on available open plot area, no. of trees surviving as on 31st 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 the 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 31st March in the prescribed Form-V as per the provisions of rule 14 of the Environment (Protection) (Second Amendment) Rules, 1992 before 30th 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 downstream 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 housekeeping and take adequate measures for control of pollution from all sources so as not to cause nuisance to surrounding area / inhabitants.
9. 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.
10. **The applicant shall obtain consent to operate for starting of commercial production.**
11. This Board reserves the right to amend or add any conditions in this consent and the same shall be binding on the Applicant.
12. This consent is issued with overriding effect on earlier consent issued by the Board vide consent No. BO/PCI-II/RO-RD/ECI No.RD-1071-08/3672-08/O/CC-398 dated 27.08.2009
13. Industry shall comply with the provisions of the RRZ policy dated 13.07.2009.

14. The consent is issued pursuant to the decision of Consent Committee meeting of the Board held on 12.01.2012.
15. The Total Capital investment of industry is **Rs.73.10 Crores.**

For and On Behalf of the
Maharashtra Pollution Control Board,



(Milind Mhaskar, IAS)
Member Secretary

To,
M/s. Wartsila India Limited,
S.No.105, Near MSEB Sub-Station,
Vill: Tambti, Tuluka: Khalapur,
Dist: Raigad.

Copy to:

- 1) Regional Officer, MPCB, Raigad
- 2) Sub-Regional Officer, MPCB, Raigad-I
- 3) Chief Accounts Officer, MPCB, Mumbai

Received Consent fee of – as per revised consent fee GR dated 25.08.2011.

Amount	D.D. No.	Date	Drawn on
Rs.75,100/-	038262	22.08.2011	HDFC Bank
Rs.25,000/-	041299	14.10.2011	HDFC Bank

4] Cess Branch, MPCB.