

MAHARASHTRA POLLUTION CONTROL BOARD

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Sion-Matunga Scheme Rd. No.8,
Opp. Sion Circle, Sion (East),
Mumbai-400 022.

RED/LSI

Consent No. BO/JD(APC)/ EIC No. EIC No. NK-10460-11/R/CC-(AC-308 Date: 21/02/2012.
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 Mahindra & Mahindra Ltd.,
S.No.368,369 part,372 to 376, A/P-Talegaon,
Tal Igatpuri, Dist-Nashik

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 – 30.04.2013.
2. The Consent is valid for the manufacture of -

Sr. No.	Product	Maximum Quantity
1	Internal Combustion Engine	3,00,000 Nos./Year

3. CONDITIONS UNDER WATER ACT:

- (i) The daily quantity of trade effluent from the factory shall not exceed 26.0m³
- (ii) The daily quantity of sewage effluent from the factory shall not exceed 93.0m³
- (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:

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	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	Chlorides	Nct to exceed	600 mg/l.
8	Total dissolved Solids	Nct 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 premises. There shall not be any discharge outside the factory premises.

(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 reused/recycled to maximum extent & excess if any shall be used on land for gardening only within premises. 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 Swarf-Metal scrap, Rejected Casting, fabrication scrap, Forging scrap, MS turning, Aluminium turning container metallic	4500	MT/Month	---	By Sale to authorized scrap dealers
2	Plastic Scrap-Drums	100	Nos./Month	---	
3	Containers- Metallic	30	Nos./Month	---	
4	Industrial Refuse, paper waste, cotton waste etc.	574	MT/Month	---	
5	Corrugated Boxes	145	MT/Month	---	
6	Wooden Scrap- Boxes	305	MT/Month	---	
7	Brass Scrap	50	Kgs/Month	---	By Sale to authorized recycler
8	Used unbroken grinding wheels	500	Kgs/Month	---	By Sale
9	Used broken grinding wheels	500	Kgs/Month	---	
10	Broken Glass	600	Kgs/Month	---	Used as a manure
11	Sludge from STP & Bio-filter plant	1.0	MT/Month	---	
12	Canteen waste/food waste	1.0	MT/Month	---	Treated in bio filter plant

- (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	115.0 CMD
Industrial processing generating Bio-Degradable waste water	65.0 CMD
Industrial processing generating Non-Bio-Degradable waste water CMD
Industrial Boiler/Cooling etc.	75.0 CMD
Any other and gardening.	90.0 CMD

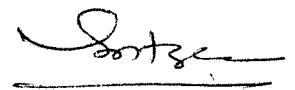
The applicant shall regularly submit to the Board the returns of water consumption in the prescribed form and pay the Cess as specified under Section 3 of the said Act.

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:

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



B) Conditions for D.G. Set:-

1] Noise from the D.G. Set should be controlled by providing an acoustic enclosure or by treating the room acoustically. 2] 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. 3] 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. 4] 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. 5] Installation of DG Set must be strictly in compliance with recommendations of DG Set manufacturer. 6] 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. 7] D.G. Set shall be operated only in case of power failure. 8] 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:-**

(i)	SPM/TPM	Not to exceed	150 mg/Nm ³
(ii)	SO ₂	Not to exceed	50 kg/day

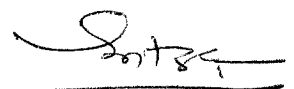
(iv) **The applicant shall observe the following fuel pattern:-**

Sr.No.	Type of Fuel	Quantity
1.	Diesel	2.5 KL/day
2.	CNG	8.0 kg/day
3.	Gasolene(Petrol)	0.6 KL/day

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

Sr. No.	Chimney Attached to	Height in Mtrs.
1	Engine Test Lab Model - XD3P	11
2	Engine Test Lab Model 10 Nos. (Model-MDI Gear & Chain drive)	11 (each)
3	Engine Test Lab - R & D (Model-NEF)- 5 Nos.	11 (each)
4	Engine Test Lab – 3 Nos. (Model-Eagle)	11 (each)
5	Engine Test Lab – 4 Nos. (CQA)	11 (each)
6	New Engine Test – 3 Nos. (Model –Eagle)	11 (each)
7	New Engine Test – 4 Nos. (Model –NEF New)	11 (each)
8	DG Sets (380 KVA) – 2 Nos.	20 (each)
9	DG Sets (375 KVA) – 2 Nos.	20 (each)
10	DG Sets (500 KVA) – 6 Nos	20 (each)
11	New CNG Engine Test Lab(2Nos)	11 (each)
12	New gasoline Engine Test Lab(1 No.)	11

(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'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.



- (v) 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.

6. **CONDITIONS UNDER HAZARDOUS WASTE (MH & TM) RULES, 2008:**

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

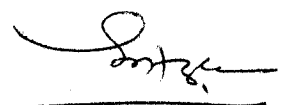
Sr. No.	Type Of Waste	Quantity	UOM	Disposal
1	5.1 Used/ spent oil	11.5	KL/Month	Sale to MPCB authorized recycler.
2	5.2 Grinding Mud	5.8	MT/Month	CHWTSDf
3	5.2 Oil Soaked Filter Paper/cartridge	800	Kgs/Month	
4	5.2 Oil Soaked Cotton Waste	7.8	MT/Month	
5	33.3 Empty Containers of Hazardous chemicals	70	Nos./Month	Sale to MPCB authorized recycler.
6	23.1 Sealer Waste	25	Kgs/Month	CHWTSDf
7	34.4 ETP Sludge	250	Kgs/Month	CHWTSDf
8	B-4 Used Batteries	10	Nos./Month	Return to Manufacturer/authorized recycler
9	B-21 Asbestos broken sheet	2100	Kgs/Month	CHWTSDf
10	B-3 Electrical scrap-copper wire	2.0	MT/Month	Sale to MPCB authorized recycler.

- a) The authorization is hereby granted to operate a facility for collection, storage, transport & disposal of hazardous waste.
- b) The industry should comply with the Hazardous Waste (M,H & TM) Rules, 2008.
- c) 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.
- d) It shall be ensured that the Hazardous waste is handled, managed & disposed of strictly in accordance with the Hazardous Waste (Management, Handling & Transboundry Movement) Rules, 2008 and shown & submitted to the Board as & when asked for.

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 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.



: 5 :

- (iii) **The applicant shall make an application for renewal of the consent at least 60 days before the date of the expiry of the consent.** 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 pre 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 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.

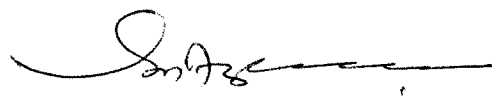
9. This Board reserves the right to amend or add any conditions in this consent and the same shall be binding on the Applicant.

10. **This is issued pursuant to the decision of Consent Appraisal Committee meeting of the Board held on 14th February,2012.**

11. The total capital investment of industry is Rs.310.59/- Crore

This consent is issued as^{fr} the Office Note dated 2.2.2012 approved by Hon'ble Chairman of the Board.

For and on Behalf of the
Maharashtra Pollution Control Board,



(V.M.Motghare)
Joint Director (Air Pollution Control) 21/2/2012

To,
M/s Mahindra & Mahindra Ltd.,
S.No.368,369 part,372 to 376,Talegaon,
Tal Igatpuri, Dist-Nashik

Copy to:

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

They are directed to submit the performance report along with monitoring results within one month period and ensure the compliance of consent conditions.

3) Chief Accounts Officer, MPCB, Mumbai

Received Consent fee of -

<u>Amount</u>	<u>D.D.No.</u>	<u>Date</u>	<u>Drawn on</u>
Rs.6,21,600/-	545371	02.12.2011	SBI

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

4] Cess Branch, MPCB.