

# 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. MPCB/JD(APC)/ EIC NO NG-6478-12/O/CC-~~CAC-466~~ Date: 13/06/2012.

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.,

Plot No. F-1 & 7,

MIDC Hingna road, Nagpur-440 016

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 – 31.01.2014
2. The Consent is valid for the manufacture of -

Sr. No.	Product	Maximum Quantity (Nos./Annum)	Maximum Quantity (Nos./Annum)	Total production
		Existing Unit	Expansion unit	
1	Tractor	75,300	26,244	1,01,544
2	Transmission	75,300	34,344	1,09,644
3	Engine	75,300	34,344	1,09,644
4	Hydraulics	1,53,200	34,344	1,87,544
5	Sheet Metal Painting	---	1,13,400	1,13,400

### 3. CONDITIONS UNDER WATER ACT:

- (i) The daily quantity of trade effluent from the factory shall be 196.0 m<sup>3</sup>
- (ii) The daily quantity of sewage effluent from the factory shall not exceed 162.34 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.
9)	Phosphate	Not to exceed	5.0 mg/l.
10)	Iron	Not to exceed	5.0 mg/l.
11)	Zinc ( as Zn)	Not to exceed	5.0 mg/l.
12)	Total Metal	Not to exceed	10.0 mg/l.

- (iv) **Trade Effluent Disposal:** The treated effluent shall be reused/recycle back into process for cooling purpose and remaining treated effluent shall be sent to CETP, Butibori. 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 domestic effluent shall be recycled to the maximum extent and remaining shall be used on land for gardening/plantation.

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

<u>Sr. No.</u>	<u>Type of waste</u>	<u>Quantity</u>	<u>Treatment</u>	<u>Disposal</u>
1.	Corrugated Boxes & Plastic	3500 MT/A	-	By sale to authorised party
2.	Wooden Scrap	1500 MT/A	-	By sale to authorised party
3.	Metallic Scrap	1050 MT/A	-	By sale to authorised party

(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	220.46	CMD
Industrial processing generating Bio-Degradable waste water	102.0	CMD
Industrial processing generating Non-Bio-Degradable waste water	151.0	CMD
Industrial Boiler/Cooling etc.	44.0	CMD
Any other and gardening.	120.0	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 Scrubber of sufficient capacity shall be provided to Painting and Phosphating section and shall be operate and maintain properly.
- 2) Fume extraction system followed by dust collector of sufficient capacity shall be provided to all sources of SPM/TPM so as to achieve the following standards.
- 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	400 Kg/day
(ii)	Acid Mist	Not to exceed	35 mg/Nm <sup>3</sup>

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

<u>Sr.No.</u>	<u>Type of Fuel</u>	<u>Quantity.</u>
1.	HSD	480 Kg/hr.
2.	Propane	950 Kg/hr.
3.	Diesel	3.0 Ton/day
4.	LDO	2.5 Ton/day
5.	Furnace Oil	2.5 Ton/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.	Hot Water Generator	30.0
2.	Paint booth Exhaust	13.0
3.	Top Coat Bake Oven	13.0
4.	pre treatment Process like Degrease, Phosphating & CED	13.0
5.	CED Bake Oven	13.0

6.	DG Set (250 KVA x 2)	03.2*
7.	DG Set (500 KVA x4)	04.5*
8.	DG Set (320 KVA x1)	03.6*
9.	Hot Water Generator	30.0
10.	Dry off Oven	18.0
11.	Flash up Zone	18.0
12.	Baking Oven	18.0
13.	D.G. Set (1020 KVA)	13.0
14.	D.G. Set (750 KVA x 2)	9.14 each
15.	D.G. Set (250 KVA) (2 Nos)	9.14 each
16.	Baking Oven	3.0*

(\* above roof top of the Bldg in which it is to be installed)

- (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.
- (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.
  - 3) The applicant shall install continuous automatic ambient air and micrometeorological monitoring station at location indicated by State Board to be set up and operate at its own cost to measure SO<sub>2</sub>, NO<sub>x</sub> and particulate matter. These CAAQMS shall also have necessary provision of networking to the Air Quality Monitoring network of MPCB website <http://mpcb.gov.in> as well to the respective Regional Office within next six months.

**C) Conditions for DG Sets: -**

1. Noise from DG Sets shall be controlled by providing acoustic enclosure or by treating the room acoustically.
2. Applicant should provide acoustic enclosure for control of noise. The acoustic enclosure/ acoustic treatment of the room shall 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 shall be done at different points at 0.5 meters from acoustic enclosure/ room and then average.
3. The Applicant should make efforts to bring down noise level due to DG Set, outside the premises. with ambient noise level requirements by proper setting and control measures.
4. Installation of DG Set must be strictly in compliance with recommendations of DG set manufacturer.
5. A proper routine and preventive maintenance procedure for DG Set shall be set and followed in consultation with the DG manufacturers, which would help to prevent noise levels of DG Sets from deteriorating with use.
6. The DG set shall be operated only in case of power failure. The applicant shall make arrangement for regular electrical power.
7. The Applicant shall not cause any nuisance in the surrounding area due to operation of DG sets.
8. In case of problems, the D.G. set shall not be operated until it is set back to satisfactory position.

## 6. CONDITIONS UNDER HAZARDOUS WASTE (MH &amp; 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.	21.1	Wastes & Residues	200 MT/Annum	CHWTSDF or Authorized recycler or authorized cement industry. CHWTSDF
2	34.3	ETP Sludge	50 MT/Annum	
3	12.5	Phosphate Sludge	40 MT/Annum	
4	33.3	Barrels containing hazardous material	21000 Nos./Annum	Sale to authorized party.
5	5.2	Waste residue containing oil	50 MT/Annum	Sale to authorized reprocessor
6.	3.3	Oil containing sludge and filter	15 MT/Annum	Sale to authorized reprocessor
7	Schedule-II Class B-4	Batteries	1500 Nos. /Annum	Sale to authorized Party.
8	5.1	Spent/used oil	40 KL/Annum	Sale authorized reprocessor

(ii) The authorization is here by granted to operate a facility for collection, storage, transport &amp; 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.

: 4 :

- (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 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 is issued pursuant to the decision of Consent Appraisal Committee meeting of the Board held on 29.05.2012.
10. This Board reserves the right to amend or add any conditions in this consent and the same shall be binding on the Applicant.
11. This consent is issued with the overriding effect of the consent granted by the Board vide No. MPCB/JD(APC)/EIC No.NG-4428-11/E/CC-530 dated 25.10.2011.
12. The total capital investment of industry is Rs.274/- Crores (existing unit Rs.160/- Crores & Expansion Unit Rs.114/- Crores.).

  
(Milind Mhaiskar, IAS)  
Member Secretary

To,  
M/s Mahindra & Mahindra Ltd.,  
(Expansion Unit), F-1 & 7, MIDC,  
MIDC Hingna road, Nagpur-440 016

Copy to:

- 1) Regional Officer, MPCB, Nagpur 2) Sub-Regional Officer, MPCB, Nagpur-II  
- They are directed to ensure the compliance of consent conditions and submit the performance report along with monitoring results within one month period.

3) Received Consent fee of -

<u>Amount</u>	<u>D.D.No</u>	<u>Date</u>	<u>Drawn on</u>
Rs. 3.36.000/-	967545	07.12.2011	HDFC Bank
Rs. 4.80.000/-	117323	24.12.2010	HDFC Bank
Rs. 16/-	570203	14.06.2011	Nagpur Nagrik Sahakari Bank Ltd.,
Rs. 4.80.000/-	576768	04.10.2011	HDFC Bank

4) Cess Branch. MPCB.