

# MAHARASHTRA POLLUTION CONTROL BOARD

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Red/ L.S.I

Consent No.BO/JD(APC)/EIC No.MU-2903-11/O-CA-368 Date 29/03/2012.

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 & Transboundry Movement) Rules 2008

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

.....  
CONSENT is hereby granted to

M/s. Mahindra and Mahindra Ltd.  
(Automotive Division), Akurdi Road,  
Kandivali (East), Mumbai- 400 101.

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: 31/10/2014.
2. The Consent is valid for the manufacture of -

Sr. No.	Product Name	Maximum Quantity	UOM
1	Multi Utility Vehicles and Aggregates	60,000	Nos/Yr*
2	Casting	15,000	MT/Year

(\* Pre engineering and pre painted parts shall be outsourced)

### 3. CONDITIONS UNDER WATER ACT:

- (i) The daily quantity of trade effluent from the factory shall not exceed 191 M<sup>3</sup>.
- (ii) The daily quantity of sewage effluent from the factory shall not exceed 283 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:

Sr.no	Parameter	Limits
1	pH	Between 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	Total Metal	Not to exceed 10 mg/l
8	Chlorides	Not to exceed 600 mg/l
9	Sulphates	Not to exceed 1000 mg/l
10	Zinc	Not to exceed 5 mg/l
11	Iron	Not to exceed 3 mg/l
12	Total Chromium	Not to exceed 2 mg/l
13	Phosphates	Not to exceed 1 mg/l
14	Chromium(hexa)	Not to exceed 0.05 mg/l

(iv) **Trade Effluent Disposal:** The treated trade effluent shall be connected to the sewerage system provided by M.C.G.M.

(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 connected to the sewerage system provided by M.C.G.M.

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

Sr. no	Decription and Part Nos.	Qty	Unit
1	Steel Turning Boring SCRAPO 1N	509	Tons
2	CL Boring SCRAP02N	1682	Tons
3	Steel Sheet Cutting	2563	Tons
4	Industrial Refuse SCRAP18	554	Tons
5	MISC. Iron SCRAP20	337	Tons
6	Waste Sand SCRAP31	8422	Tons
7	Waste sag SCRAP32	1483	Tons
8	Woo0den SCRAP35	556	Tons
9	Corrugated Boxes SCRAP56	1107	Tons
10	Scrap miscellaneous excisable SCRAP59	142	Tons
11	Iron & Steel Defaced SCRAP03	62	Tons
12	Scrap Electrical wire SCRAP24	3	Tons

13	Forklift tyres SCRAP47	51	Tons
14	Scrap of defaced components from warranty SCRAP57	34	Tons
15	Scrap Aluminum Turning & Boring SCRAP61N	3	Tons
16	Empty plastic drums 50 to 125 ltr SCRAP68	124	Tons
17	Scrap deface aluminum casting SCRAP76	6	Tons
18	MS turning & aluminum turning mixture SCRAP84	2	Tons
19	Scrap used wheels of trolley SCRAP88	2	Tons
20	Scrap electrical items, motors, panels, SCRAP89	4	Tons
21	Scrap & waste of Nicrome SCRAP13	1	Tons
22	Steel top / bottom cover packing of sheets SCRAP81	2	Tons

(viii) **Other Conditions:** Industry should monitor effluent quality every month through MoEF Recognized Laboratory

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:

Sr.No	Consumption	Quantity
1	Domestic	412 CMD
2	Industrial Processing generating Biodegradable waste water	---- CMD
3	Industrial Processing generating Non- Biodegradable waste water	224 CMD
4	Industrial Cooling/Boiler	105 CMD
5	Other uses like gardening etc.	44 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 collector of sufficient capacity shall be provided to sand blasting unit.
2. Fumes extraction system shall be provided wherever necessary
3. There shall not be any fugitive / secondary emission.
4. Painting activity shall be carried out in a closed shade only.

**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	52	Kg/day

**c. The applicant shall observe the following fuel pattern:-**

Sr.no	Type of fuel	Quantity	UOM
1	PNG	1000	KSCM/Day
2	L.P.G	83	T/Day
3	HSDS	930	KL/Day
4	kerosene (as cleaning agent)	39.39	KL/Day

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

Sr.no.	Chimney attached to	Height in meters
1	D.G. Set (350 KVA 2 Nos)	15
2	D.G. Set (380 KVA 6 Nos)	15
3	Engine Test Beds(24 Nos)	10
4	RX Generator Furnace(3 Nos)	10
5	CGC Furnace-II(2 Nos)	10
6	CGC Furnace-I	10
7	Supercell case & Sealed quenched Furnace(3 Nos)	10
8	Muffle furnace(3 Nos)	10
9	Locdraw Furnace	10
10	Hocdraw Furnace	10
11	Thermopac Boiler (Non IBR type)	30

**6. Conditions for D.G. Set**

- Noise from the D.G. Set should be controlled by providing an acoustic enclosure or by treating the room acoustically.
- 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.
- 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.
- Installation of DG Set must be strictly in compliance with recommendations of DG Set manufacturer.

- e. 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
- f. D.G. Set shall be operated only in case of power failure
- g. The applicant should not cause any nuisance in the surrounding area due to operation of D.G. Set
- I 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.
- J 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.
- K. 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. No.	Type Of Waste	Quantity	UOM	Disposal
1	Used oil /Spent oil (5.1)	7460	KL/Year	Incineration at CHWTSDF or Sale to CPCB/SPCB authorized /registered re-refiner/recycler
2	Oil soaked waste (5.4)	160	T/Year	At CHWTSDF
3	Phosphating Sludge (12.5)	30	T/Year	At CHWTSDF
4	Residue of coating / Painting (21.1)	550	T/Year	Incineration at CHWTSDF or Sale to CPCB/SPCB authorized /registered re-refiner/recycler
5	Chemical sludge from waste water treatment (12.9)	160	T/Year	At CHWTSDF
6	Waste batteries	62	Nos/Year	Sale to authorized party
	Waste Thinner	16.4	KL/Year	Incineration at CHWTSDF or Sale to CPCB/SPCB authorized /registered re-refiner/recycler
8	Discarded containers/barrels/liners for hazardous waste/Chemicals (33.3)	5074	Kg/Year	Sale to authorized party after decontamination

(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 equipments, 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 and the report of the compliance along with photograph shall be submitted to this 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 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 30<sup>th</sup> day of September every year, the Environmental Statement Report for the financial year ending 31<sup>st</sup> 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.
- ix. 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. Industry shall submit the bank guarantee of Rs.5 lakhs in the Regional office Mumbai within 15 days towards installation of separate ETP for treatment of chrome bearing effluent within six month period.
10. Industry shall submit the bank guarantee of Rs.2 lakhs in the Regional office Mumbai within 15 days towards stoppage of sewage effluent discharge into Nalla.
11. Industry shall submit the bank guarantee of Rs.5 lakhs in the Regional office Mumbai within 15 days towards installation of adequate air pollution Control system to furnace along with the stack within three months time period.
12. Industry shall submit the bank guarantee of Rs.10 lakhs in the Regional office Mumbai within 15 days towards installation of secondary fume extraction system to casting section within six months time period.
13. Industry shall discontinue painting activity in open space.

14. Industry shall not carry out any expansion activity without obtaining Permission/ consent from the Board.

15. The total Capital investment of the industry is Rs. 594.40 Crores.

16. This is issued with approval of Consent Appraisal Committee meeting of the Board held on dtd. 20.03.2012.

For and On Behalf of the  
Maharashtra Pollution Control Board,

  
(Milind Mhaskar, IAS)  
Member Secretary

To,  
M/s. Mahindra and Mahindra Ltd,  
(Automotive Division), Akurli Road  
Kandivali (East), Mumbai- 400101

Copy to:

RO- MPCB Mumbai /SRO- Mumbai-IV, M.P.C. Board, Mumbai.

- They are directed to ensure the compliance of consent conditions & submit the detail report of pollution control System within 1 month period. Also ensure that industry shall not take any steps for the manufacturing of additional products.

CAO/Cess Branch/Master File

Received Consent fee as per Environment Departments revised  
G.R.dated 25.03.2011.

Sr. No.	Amount(Rs.)	DD. No.	Date	Drawn On
1	11,88,804/-	807855	06.09.2011	SBI Bank
2	50,000/-	371406	27.02.2012	SBI Bank
3	11,88,804/-	371404	27.02.2012	SBI Bank
4	11,88,804/-	371405	27.02.2012	SBI Bank
5	1,08,331/-	371461	02.03.2012	SBI Bank