

MAHARASHTRA POLLUTION CONTROL BOARD

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Scheme Road No. 8, Opp. Cine Planet Cinema,
Near Sion Circle, Sion (E),
Mumbai - 400 022

Red/L.S.I

Date: 15/12/2011

Consent No: BO/APAE/EIC No.PN-11538-11/O/CC- (AC)-67

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 Vehicle Manufacturers Ltd.
Plot No. A-1, Chakan Industrial Area,
Phase IV, Tal. Khed, Dist. Pune

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: 30/11/2012.
2. The Consent is valid for the manufacture of -

Sr. No.	Product Name	Maximum Quantity	UOM
1	Automobile industrial heavy and medium commercial vehicle, components aggregates, like transmission, axel & engines	1,47,000	Nos/Yr.
2	Construction Equipments		

3. CONDITIONS UNDER WATER ACT:

- (i) The daily quantity of trade effluent from the factory shall not exceed 449.0 M³.
- (ii) The daily quantity of sewage effluent from the factory shall not exceed 263 M³.

(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	BOD 3 days 27 Deg. C	Not to exceed	30 mg/l
3	COD	Not to exceed	250 mg/l
4	SS	Not to exceed	100 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	Phosphate	Not to exceed	5 mg/l.

(iv) **Trade Effluent Disposal:** The treated effluent shall use on land for gardening. 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 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	Quantit.	UOM	Disposal
1	Scrap Packing waste namely pap plastic wood thermocol, cardboard, rubber	900	T/A	By Sale
2	Scrap CI, MS, Aluminium chips, Burr, Turning, Boaring	129	T/A	By Sale
3	Sheet Metal Body Scrap	3341	T/A	By Sale
4	Empty container Jerry Can bottle, drums, cardboys	60000	Nos/Y	By Sale
4	Deface metal body scrap	40	T/A	By Sale/ Recycler
5	Deface CI casting	80	T/A	By Sale
6	Deface aluminium casting	40	T/A	By Sale
7	Scrap Tyres	200	Nos/A	By Sale
8	Food waste	600	Kg/D	As manure / Sale to Piggeries

(viii) **Other Conditions:**

- i) The unit shall carry out monthly monitoring of treated domestic as well as industrial effluent and submit the report of the same to the Board regularly
- ii) The unit shall take necessary efforts for segregation of solid waste at source only and disposal salable waste regularly. The records showing waste segregation at source to be maintained.
- iii) The unit shall take necessary efforts regarding rain water harvesting every monsoosn.

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:

(i) Domestic	...	629.00 CMD
(ii) Industrial Processing	...	735.00 CMD
(iii) Industrial Cooling	...	60.00 CMD
(iv) Industrial Processing & floor washing	...	0.00 CMD
(v) Agriculture / Gardening	...	640 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:

- i) Fume extraction system followed by Dust collection system of sufficient capacity should be provided to all sources of SPM/TPM shall be operated properly and continuously
- ii) Painting activity shall be carried out in an enclosed shed
- iii) There shall not be any secondary (Fugitive) emissions.

b. Standards for Emissions of Air Pollutants :

(i) SPM/TPM	Not to exceed	150 mg/Nm ³
(ii) SO ₂	Not to exceed	782.4 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

d.(I) The applicant shall observe the following fuel pattern:-

Sr. No.	Type Of Fuel	Quantity	UOM
1	LPG	50	T/D
2.	HSD	1630	Litrs/H

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

Sr. No.	Chimney Attached To	Height in Mtrs.
1	D G Set (1125 KVA)	32
2	D G Set (1125 KVA)	32
3	D G Set (1450 KVA)	32
4	D G Set (1450 KVA)	32
5	D G Set (2000 KVA)	32
6	D G Set (2000 KVA)	32
7	Boiler for multiple Evaporator	30
8	Paint shop 1 ED Oven exhaust line 1	5*
9	Paint shop 1 ED Oven exhaust line 2	5*
10	Paint shop 1 sealer oven exhaust	5*
11	Hot water generator	24
12	Paint shop 1 primer oven exhaust line 1	5*
13	Paint shop 1 primer oven exhaust line 2	5*
14	Paint shop 1 Top coat oven exhaust	5*
15	Paint shop grating cleaning exhaust	30
16	Paint shop 2 ED oven exhaust	6*
17	Paint shop 2 sealer oven exhaust	6*
18	Paint shop 2 Top coat oven exhaust	6*
19	Paint shop 1 Pre- degreasing exhaust	7*
20	Paint shop 1 phosphate exhaust	7*
21	Paint shop 1 Rinse exhaust	7*
22	Paint shop 1 ED main tank exhaust & ED tank exist exhaust	7*
23	Paint shop 1 ED oven exhaust cooling zone line 1	5*

24	Paint shop 1 ED oven exhaust cooling zone line 2	5*
25	Paint shop 1 UBS line exhaust	4.5*
26	Paint shop 1 Flash edge primer exhaust	5.5*
27	Paint shop 1 sealer oven cooling zone exhaust	5*
28	Paint shop 1 primer booth and top coat booth CC exhaust	30
29	Paint shop 1 top coat BC 1 exhaust & BC 2 exhaust	30
30	Paint shop 1 online touch up/ RPP booth exhaust	5*
31	Paint shop 1 spot repair booth exhaust	30
32	Paint shop 1 dexterity exhaust	3*
33	Paint shop 1 paint mix room exhaust	1*
34	Paint shop 1 top coat oven cooling zone exhaust	5*
35	Paint shop 1 black tape zone exhaust	5*
36	Paint shop 1 primer oven cooling zone 1	5*
37	Paint shop 1 primer oven cooling zone 2	5*
38	Paint shop 2 knock off degreasing exhaust	5.8*
39	Paint shop 2 phosphate exhaust	5.8*
40	Paint shop 2 Rinse exhaust	5.8*
41	Paint shop 2 ED main tank exhaust & ED tank exist exhaust	5.8*
42	Paint shop 2 ED oven exhaust cooling zone	5*
43	Paint shop 2 Ex. Air cleaning / flash off	5*
44	Paint shop 2 sealer oven cooling zone exhaust	3*
45	Paint shop 2 top coat oven cooling zone exhaust	3*
46	Paint shop 2 paint mix room exhaust	1*
47	Paint shop 2 Top coat booth tag rag & tag rag exhaust	30
48	Major rework, spot repair and final inspection	5.6*
49	Vehicle exhaust system V- 1	1*
50	Vehicle exhaust system V- 2	1*
51	Paint touch up area V-3	1*
52	Vehicle exhaust system V- 4	1*
53	Vehicle exhaust system V- 5	1*
54	Paint Touch up area V-6	1*
55	Vehicle exhaust system V- 7	1*
56	Vehicle exhaust system V- 8	1*
57	Vehicle exhaust system V- 9	1*
58	Vehicle exhaust system V- 10	1*
59	Paint Touch up area V- 11	1*
60	Paint Touch up area V-12	1*
61	Vehicle exhaust system V- 13	1*
62	Vehicle exhaust system V- 14	1*
63	Ventilation system V-15	1*
64	Paint touch up area V-16	1*
65	Paint touch up area V-17	1*
66	Transaxle Shop	5 *

67	Paint shop stacks (CES-2)	15
68	Paint shop stacks (CES-3)	15
69	Process stack shot blasting (CES-1)	16
(* above roof level)		

6. 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.
7. 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.

(iii) **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 D.G. Set shall be utilized as a standby power source and shall be operate only in case of power failure

8. CONDITIONS UNDER HAZARDOUS WASTE (MANAGEMENT, HANDLING & TRANSBOUNDARY MOVEMENT) RULES, 2008:

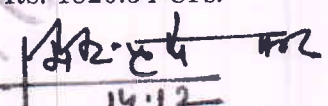
- (i) The Industry shall handle hazardous wastes as specified below.

Sr. No.	Cate-gory	Type Of Waste	Quantity	UOM	Disposal
1	12.5	Phosphate sludge	50	T/A	CHWTSDF
2	21.1	Waste and residues	100	T/A	CHWTSDF
3	34.2	Toxic metal containing residue	14150	L//A	CHWTSDF
4	34.3	Chemical sludge from waste water treatment	100	T/A	CHWTSDF
5	34.3	Chemical sludge from waste water treatment	900	Kg/D	CHWTSDF
6		Shot Blast Dust	6.0	T/M	CHWTSDF
7	5.1	Used spent oil	30000	Lit/A	Authorized reprocessor
8	5.2	Waste/ residues containing oil	100	T/A	CHWTSDF
9	31.1	Residue and waste	222	Nos/Y	CHWTSDF
10	20.2	Spent Solvent	100	Kl/Y	CHWTSDF
11	34.2	Toxic metal containing residue	5	MT/A	CHWTSDF
12	33.3	Discarded containers/barrels/liners	20000	Nos/.Y	CHWTSDF
13	B4	Lead & lead compounds	100	Nos/Y	Authorized reprocessor
14	B3	Copper compounds	6	Tons/Year	Authorized reprocessor

- (ii) Treatment: - NIL

- 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.
- 9. Industry shall comply with following general 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 30th day of September every year, 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.

- 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.
- x. 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
- xi. Neither storm water nor discharge from other premises shall be allowed to mix with the effluents from the factory
- 10 The industry shall provide Environmental Friendly road transportation by adopting mechanical type closed truck for transportation of minerals and metals before 31/03/2011
- 11 This issued with approval of Consent Appraisal Committee meeting of the Board held on dtd. 05/12/2010
12. The Capital investment of the industry is Rs. 1820.54 Crs.


 14.12
 (Milind Mhaikar IAS)
 Member Secretary

To,
M/s. Mahindra Vehicle Manufacturers Ltd.
Plot No. A-1, Chakan Industrial Area,
Phase IV, Tal. Khed, Dist. Pune

Copy to:

- 1) Regional Officer/Sub-Regional Officer, MPCB, Pune-they are directed to ensure the Compliance of consent conditions & submit the detail report of performance & evaluation within 1 month.
- 3) Chief Accounts Officer, MPCB, Mumbai

Received Consent fee of -

Sr. No.	Amount(Rs.)	DD. No.	Date	Drawn On
1	36,41,180/-	124098	08/10/2011	HDFC Bank

* Consent fees received as per revised consent fees G.R. of Env't. Dept, GoM dated 25/08/2011