

MAHARASHTRA POLLUTION CONTROL BOARD

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Red/L.S.I

Date: 08/01/2013

Consent No: BO/JD(APC)/EIC No. PN-15926-12/O/CC/CAC-746

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 (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 - 410 601

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 --- 30/11/2013.
2. The Consent is valid for the manufacture of -

Sr. No.	Product Name	Maximum Quantity	UOM
1	Automobile industrial heavy & medium commercial vehicle, components aggregates like transmission, axel & engines, etc. including job works	2,50,000	Nos/Yr.
2	Construction Equipments		

3. CONDITIONS UNDER WATER ACT:

- (i) The daily quantity of trade effluent from the factory shall not exceed 697 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 industrial effluent shall be recycled to the maximum extent and remaining shall used on land for gardening. There shall not be any discharge outside the factory premises. Industry should not discharge any effluent in to local nalla.

(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.

(vii) **Sewage Effluent Disposal:** The treated domestic effluent shall be treated in STP and it shall be used on land for gardening / plantation only.

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

S. No.	Type of waste	Quantity	Unit	Disposal
1.	Scrap packing waste paper, plastic, wood, thermocol cardboard rubber	8770	TPA	Sold to recyclers
2.	Scrap CI, MS, Alchips, burrs, turnings, borings	515	TPA	
3.	Sheet metal scrap	12,400	TPA	
4.	Deface metal body scrap	1,000	TPA	
5.	Deface CI castings	710	TPA	
6.	Deface Al castings	70	TPA	
7.	Empty containers jerry cans, barrels, bottles, drums, carbouys	60,000	Nos./ yr	
8.	Scrap tyres	5,200	Nos./ yr	
9.	Shot blast dust	6	TPA	
10.	Food waste	800	kg/day	Used for composting

(viii) **Other Conditions:** Industry should 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 amendment Rules, 2003 there under

The daily water consumption for the following categories is as under:

(i)	Domestic	329 CMD
(ii)	Industrial Processing	1250 CMD
(iii)	Industrial Cooling	90 CMD
(iv)	DM / soft rejects (backwash water)	50 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:

1. Control Equipment:

1. Fume extraction system followed by dust collection system of sufficient capacity shall be provided to all dust generating locations and all sources of SPM/TPM shall be operated properly and continuously.
2. Painting activity shall be carried out in an enclosure.
3. There shall not be any secondary (fugitive) emissions.

b. Standards for Emissions of Air Pollutants:

S. No.	Parameters		Limit	Unit
i	SPM / TPM	Not to exceed	150	Mg / Nm ³
ii	SO ₂	Not to exceed	782.4	Kg / day

The applicant shall observe the following fuel pattern:-

S No.	Type of Fuel	Quantity	Unit
1.	LPG	50	TPD
2.	HSD	1630	Kg / hr

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

S No.	Chimneys attached to	Height in Mtrs.
1.	DG Set 1125 KVA	32
2.	DG Set 1125 KVA	32
3.	DG Set 1450 KVA	32
4.	DG Set 1450 KVA	32
5.	DG Set 2000 KVA	32
6.	DG Set 2000 KVA	32
7.	Boiler for multiple evaporator	30 m
8.	Paint shop 1 ED oven exhaust line 1	5*
9.	Paint shop 1 ED oven exhaust line 2	5* m
10.	Paint shop 1 sealer oven exhaust	5* m
11.	Hot water generator	24 m
12.	Paint shop 1 primer oven exhaust line 1	5* m
13.	Paint shop 1 primer oven exhaust line 2	5* m
14.	Paint shop 1 top coat oven exhaust	5* m
15.	Paint shop grating cleaning exhaust	30 m
16.	Paint shop 2 ED oven exhaust	6* m
17.	Paint shop 2 sealer oven exhaust	6* m
18.	Paint shop 2 top coat oven exhaust	6*
19.	Paint shop 1 pre-degrasing 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 & 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	5*

	booth exhaust	
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 & final inspection	5.6*
49.	Vehicle exhaust system V1	1*
50.	Vehicle exhaust system V2	1*
51.	Paint touch up area V3	1*
52.	Vehicle exhaust system V4	1*
53.	Vehicle exhaust system V5	1*
54.	Paint touch up area V6	1*
55.	Vehicle exhaust system V7	1*
56.	Vehicle exhaust system V8	1*
57.	Vehicle exhaust system V9	1*
58.	Vehicle exhaust system V10	1*
59.	Paint touch up area V11	1*
60.	Paint touch up area V12	1*

61.	Vehicle exhaust system V13	1*
62.	Vehicle exhaust system V14	1*
63.	Ventilation system V15	1*
64.	Paint touch up area V16	1*
65.	Paint touch up area V17	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
70.	Hot water generator at central kitchen in supplier park	31
71.	Engine testing area	1
72.	Waxing booth (36000 CMH)	16
73.	Waxing booth (36000 CMH)	16
74.	Waxing booth (36000 CMH)	16
75.	Waxing booth (36000 CMH)	16
76.	Wax cooling exhaust (2359 m ³ /hr)	2*
77.	Wax oven exhaust (2359 m ³ /hr)	5*

(* above roof level)

- (ii) 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.
- (iii) 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.
- (v) **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 (MANAGEMENT, HANDLING & TRANSBOUNDARY MOVEMENT) RULES, 2008:

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

Sr. No.	Type of HW	QTY.	Unit	Disposal
1.	5.1 Used / spent oil	50,000	lit/yr	Sale to Authorized reprocessor
2.	5.2 oil soaked waste/ residue	280	TPA	CHWTSDF
3.	5.2 Grinding waste	30	TPA	CHWTSDF
4.	12.5 Phosphate sludge	200	TPA	CHWTSDF
5.	20.1 Waste wax	10	TPA	CHWTSDF
6.	20.2 Spent solvents	250	Kl/yr	CHWTSDF
7.	21.1 wastes & residues of paint	420	TPA	CHWTSDF
8.	21.1 Grating waste sand	25	TPA	CHWTSDF
9.	23.1 Sealer waste	40	TPA	CHWTSDF
10.	31.1 Electronic waste	20	TPA	Authorized recycler
11.	33.3 Discarded containers/ barrels/ liners	2,50,000	Nos./yr	CHWTSDF
12.	34.2 Toxic metal containing residue from ion exchange material in water	14,150	Lit/ 4 years	CHWTSDF
13.	34.2 Spent ion exchange resin containing toxic metals	5	Nos./yr	CHWTSDF
14.	34.3 Chemical sludge from wastewater treatment	220	TPA	CHWTSDF
15.	MEE Sludge	900	Kg/yr	CHWTSDF
16.	B3 non ferrous scrap (copper cables)	50	TPA	Authorized reprocessor
17.	B4 used lead batteries	2,000	Nos./yr	Authorized reprocessor
18.	Carbon dust	20	TPA	CHWTSDF

i. 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 **Rule 5 of the Hazardous Wastes (Management, Handling & Transboundary Movement) Rules 2008** and shown & submitted to the Board as & when asked for.

7. 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 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. **This is issued with approval of Consent Appraisal Committee meeting of the Board held on dtd. 27/12/2012.**

- 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.
8. You shall submit Bank Guarantee of Rs. 10/- Lakh in favor of Regional Officer Pune within 15 days against operation & maintenance of effluent treatment plant to achieve consented standards. The Bank Guarantee shall be valid one year period
9. The Capital investment of the industry is Rs. 3510.92 Crores

(Rajeev Kumar Mital IAS)
Member Secretary

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

Copy to:

RO- Pune /SRO- Pune-II - They are directed to obtain the BG of Rs.10 Lakhs from the industry & submit the compliance report within 1 month period

a. CAO/Cess Branch/Master File

Received Consent fee of -

Sr. No.	Amount	DD. No.	Date	Drawn On
1	Rs. 40,78,160/-	128760	10.09.2012	HDFC Bank
2	Rs. 29,43,680/-	129621	06.11.2012	HDFC Bank