

MAHARASHTRA POLLUTION CONTROL BOARD

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Red/L.S.I

Date: 21/01/2013

Consent No: BO/APAE/EIC No.NK 12554-12/R/CAC-789

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 & Mahindra Ltd.
89, Satpur MIDC, Nashik
Tal. Dist Nashik 422 007

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: 31/12/2015.
2. The Consent is valid for the manufacture of -

| Sr. No. | Product Name | Maximum Quantity | UOM |
|---------|---|------------------|-----------|
| 1 | Utility vehicle Cars, Light, Commercial Vehicles & Their Aggregates | 18,500 | Nos/Month |

3. CONDITIONS UNDER WATER ACT:

- (i) The daily quantity of trade effluent from the factory shall not exceed 360.0 M³.
- (ii) The daily quantity of sewage effluent from the factory shall not exceed 400M³.

(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 standards as specified in schedule -VI of part A of Environmental protection Rules, 1986. These standards are applicable only for disposal of treated effluent on land for irrigation. Effluent standards applicable at the site delivery point

| 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 | Oil & Grease | Not to exceed 10 mg/l |
| 5 | Suspended Solids | Not to exceed 100 mg/l. |
| 6 | TDS | Not to exceed 2100 mg/l. |
| 7 | Chlorides | Not to exceed 600mg/l. |
| 8 | Sulphates | Not to exceed 1000 mg/l |
| 9 | DO | Not to be less than 5.0 mg/l |
| 10 | Zinc (as Zn) | Not to exceed 5.0 mg/l |
| 11 | Chromium as Cr Hexavalent Total | Not to exceed 0.1 mg/l. |
| 12 | Total Chromium (as Cr) | Not to exceed 2.0 |
| 13 | Copper (as Cu) | Not to exceed 3.0 mg/l. |
| 14 | Nickel | Not to exceed 3.0 mg/l. |
| 15 | Phosphate | Not to exceed 5.0 mg/l. |
| 16 | Bio-assay test | Not to exceed 90% survival of fish after 96 hrs in 100% effluent |

(iv) **Trade Effluent Disposal:** The treated effluent shall use on land for gardening. There shall not be any discharge outside the factory premises. The industry shall become member of CETP as & when proposed

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

| Sr. No. | Type Of Waste | Quantit | UOM | Disposal |
|---------|---|---------|--------|----------|
| 1 | Industrial refuse paper waste, cotton, waste etc. | 1930 | MT/A | By Sale |
| 2 | Wooden boxes & Packing Material | 7500 | MT/A | By Sale |
| 3 | Misc. Iron & steel | 24000 | MT/M | By Sale |
| 4 | Aluminum scrap | 48 | MT/A | By Sale |
| 5 | Used & warranty return Tyres vehicles | 3700 | Nos./M | By Sale |
| 6 | Non-Metallic Scrap(FRP/Rubber/plst/rexin) - ferrous scrap | 300 | Nos./M | By Sale |
| 7 | Cleaned non containing container | 21000 | T/M | By Sale |

(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 monsoons.

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 | ... | 500.00 CMD |
| (ii) Industrial Processing | ... | 400.00 CMD |
| (iii) Industrial Cooling | ... | 600.00 CMD |
| (iv) Agriculture / Gardening | ... | 0.00 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 collecting system sufficient capacity shall be provided to all sources of SPM/TPM
- ii) Fume extraction system followed by Scrubbing system sufficient capacity shall be provided to all sources of gaseous emission

b. Standards for Emissions of Air Pollutants :

| | | |
|----------------------|---------------|------------------------|
| (i) SPM/TPM | Not to exceed | 150 mg/Nm ³ |
| (ii) SO ₂ | Not to exceed | 400 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 | 2500.00 | Kg/Day |
| 2. | LPG | 1000.00 | Kg/Day |
| 3. | LPG | 612.00 | Kg/Day |
| 4. | LPG | 1243.00 | Kg/Day |
| 5. | LPG | 821.00 | Kg/Day |
| 6. | LPG | 480.00 | MT |
| 7. | LPG | 821.00 | MT |
| 8. | Diesel | 950.00 | Kg/Day |
| 9. | Diesel | 6000.00 | Lit/Day |
| 10. | Diesel | 700.00 | MT |
| 11. | Diesel | 2832.00 | Lit/Day |
| 12. | Diesel | 3624.00 | Lit/Day |
| 13. | Diesel | 2832.00 | Lit/Day |
| 14. | LPG | 1200.00 | Kg/Day |
| 15. | LPG | 500.00 | Kg/Day |
| 16. | LPG | 1200.00 | Kg/Day |
| 17. | LPG | 2000.00 | Kg/Day |
| 18. | LPG | 180.00 | Kg/Day |

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

| Sr. No. | Chimney Attached To | Height in Mtrs. |
|---------|---|-----------------|
| 1 | DG Set 1250 KVA 5Nos | 16.70 |
| 2 | Top Coat Oven (NPS) | 13.20 |
| 3 | AMF DG Set 750 KVA 5 Nos | 16.10 |
| 4 | Hot Water Generator Stack-1(MQS) | 14.00 |
| 5 | Sealer Oven(NPS) | 15.20 |
| 6 | Surface Oven No1 (NPS) | 13.20 |
| 7 | ED Incinerator (MQS Paint Shop) | 14.00 |
| 8 | Surface Oven No2 (NPS) | 15.20 |
| 9 | Hot Water Generator Stack-2(MQS) | 14.00 |
| 10 | Top Coat-Holding zone exhaust (MQS Paint Shop) | 12.00 |
| 11 | Top Coat-Fresh air exhaust (MQS Paint Shop) | 12.00 |
| 12 | Engine Test Lab 1 | 0.00 |
| 13 | Top Coat-Heat up zone exhaust (MQS Paint Shop) | 12.00 |
| 14 | Sealer Oven- Fresh Air exhaust (MQS Paint Shop) | 12.00 |
| 15 | DG Set 1250 KVA 2 Nos | 16.70 |
| 16 | Sealer Oven- Heat uSealer Oven- Heat Up zone | 12.00 |

| | | |
|----|---|-------|
| | exhaust (MQS Paint Shop) exhaust (MQS Paint Shop) | |
| 17 | Engine Test Lab 2 | 0.00 |
| 18 | AMF DG Set 750 KVA(4 Nos.) | 16.10 |
| 19 | Dip degrease direct heating (MQS) | 0.00 |
| 20 | DG Set 1000 KVA (1 No.) | 16.70 |

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.

(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

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 | 5.1 Used /spent oil | 75.00 | MT | To Authorised recycler |
| 2 | 15.1 Asbestos-containing residues | 100.00 | MT | CHWTSDF |
| 3 | 20.2 Spent solvents | 600.00 | MT | To Authorised recycler |
| 4 | 21.1 Wastes and residues | 460.00 | MT | CHWTSDF/To Authorised recycler/ re-Process |
| 5 | 20.3 Distillation residues | 120.00 | MT | CHWTSDF/To Authorized recycler/ re-Process |
| 6 | 23.1 Waste Residue | 30.00 | MT | CHWTSDF |
| 7 | 33.3 Discarded containers / barrels / liners | 170000.00 | MT | To Authorised recycler |
| 8 | 34.2 Toxic metal-containing residue from water purification | 6.00 | MT | CHWTSDF |
| 9 | 34.3 Chemical sludge from waste water treatment | 850.00 | MT | CHWTSDF |
| 10 | 5.2 Wastes/residue containing oil | 950.00 | MT | CHWTSDF |
| 11 | 12.5 Phosphate sludge | 250.00 | MT | CHWTSDF |

(ii) Treatment: -

- 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

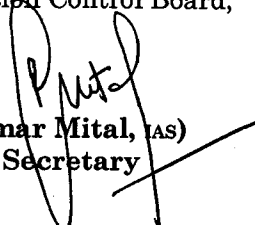
- forthwith Reported to Board, concerned Police Station, office of Directorate of Health Services, Department of Explosives, Inspectorate of Factories and Local Body. In case of failure of pollution control equipments, the production process connected to it shall be stopped.
- b. The unit has to display 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 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
- 09 This issued with approval of Consent Appraisal Committee meeting of the Board held on dtd. 08/01/2013
11. The Capital investment of the industry is Rs. 1479.15 Crs.

For and On Behalf of the
Maharashtra Pollution Control Board,


(Rajeev Kumar Mital, IAS)
Member Secretary

To,
M/s. Mahindra & Mahindra Ltd.
89, Satpur MIDC, Nashik
Tal. Dist Nashik 422 007

Copy to:

1) Regional Officer/Sub-Regional Officer, MPCB, Nashik-they are directed to forfeit the Bank Guarantee of Rs.1/- from existing B.G. of Rs.5/- Lakhs and instruct to the industry to submit the fresh Bank Guarantee of Rs.5/- Lakhs with the validity up to 31.12.2015 in the Board towards Operation & Maintenance of Pollution Control System and 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 | 88,75,042/- | 104041 | 19/10/2012 | HDFC Bank |