

# MAHARASHTRA POLLUTION CONTROL BOARD

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Mumbai-400 022.

RED/LSI

Date: 12/07/2012

Consent No. BO/JD(APC)/EIC No. PN-13626-12/O/CC-**CAC-492**

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 & T) Rules respectively].

CONSENT is hereby granted to

M/s. Fiat India Automobiles Ltd.  
B-19 MIDC Ranjangaon  
Tal. Shirur, Dist. Pune 412 220

located in the area declared under the provisions of the Water Act, Air act and Authorization under the provisions of HW (M, H & 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 - 31/05/2013
2. The Consent is valid for the manufacture of -

Sr. No.	Product Name	Maximum Quantity	UOM
1	Mfg. of Motor cars (passenger vehicles including engines, parts & accessories)	1,00,000	Nos./Year
2	Mfg. of Engines (for Outside customers)	1,00,000	Nos./Year
3	Mfg. of parts & Accessories (for Outside customers)	1,00,000	Nos./Year
4	Cars Assembly	1,500	Nos/Month

### 3. CONDITIONS UNDER WATER ACT:

- (i) The daily quantity of trade effluent from the factory shall not exceed - 852 M<sup>3</sup>.
- (ii) The daily quantity of sewage effluent from the factory shall not exceed- 256 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 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)	Chlorides	Not to exceed	600 mg/l.
8)	Sulphates	Not to exceed	1000 mg/l.

(iv) **Trade Effluent Disposal:** The treated effluent shall be recycled to the maximum extent for cooling tower purpose & excess if any shall be used on land for gardening in their own premises only. In no case, trade effluent shall find its way 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 27° 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.

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

Sr.No	Type of Waste	Quantity	UOM	Disposal
1	Metal Scraps	130	MT/A	By Sale
2	Paper & wooden Scrap	150	MT/A	By sale
3	Canteen Waste	120	MT/A	As Manure

(vi) **Other Conditions:** The industry should monitor effluent quality regularly and submit the monthly report to the Regional Office of Board at Pune and also Cess division of Board.

1. 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	...	400	CMD
(ii) Industrial Processing	..	840	CMD
(iii) Industrial Cooling	..	1880	CMD
(iv) Agriculture Gardening	...	----	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.

2. **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 shall be provided at all dust generating locations and shall be operated properly & continuously.
- ii) Scrubber of adequate capacity shall be provided to limit the air emissions
- iii) There shall not be any secondary (fugitive) emissions.

**b. Conditions for D.G. Set**

- 1] Noise from the D.G. Set should be controlled by providing an acoustic enclosure or by treating the room acoustically.
- 2] 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.
- 3] 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 night time. Day time is reckoned between 6 am to 10 pm and Night time is reckoned between 10 pm to 6 pm.
- 4] 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.
- 5] Installation of DG Set must be strictly in compliance with recommendations of DG Set manufacturer.
- 6] 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.
- 7] D.G. Set shall be operated only in case of power failure.
- 8] The applicant should not cause any nuisance in the surrounding area due to operation of D.G. Set.

**C) 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 160 Kg/Day.

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

<u>Sr.No</u>	<u>Type of Fuel</u>	<u>Quantity</u>
1	Propane	10 MT/ Day
2	Gasoline	8.0 MT/Day
3	Diesel (HSD)	8.0 MT/ Day

**d.(1) The applicant shall observe the following fuel pattern:-**

**Type fuel used & quantity for Phase-I**

<u>Sr.No</u>	<u>Type of Fuel</u>	<u>Quantity</u>	<u>Unit</u>
1	Propane	10	MT/Day
2	Gasoline	8.0	MT/Day
3	Diesel (HSD)	8.0	MT/ Day

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

Sr. No.	Chimney Attached To	Height
1	Hot water generator (2 Nos.)	30 Mtrs each
2	Stage Exhaust (3 Nos.)	16.5 Mtrs each
3	Cataphoresis Oven exhaust (3 Nos)	16.5 Mtrs each
4	Cataphoresis cooler exhaust	16.5 Mtrs
5	Cataphoresis combustion gas Exhaust (5 Nos)	16.5 Mtrs each
6	Primer Tag Rag	16.5 Mtrs
7	PVD Booth Exhaust	16.5 Mtrs
8	PVD Booth ASU	16.5 Mtrs
9	Flash Off (2 Nos.)	19.0 Mtrs each
10	UP-1 & UP-2 Flue gas exhaust	16.5 Mtrs each
11	Oven solvent Exhaust	16.5 Mtrs
12	Oven no 3 zone flue gas Exhaust	16.5 Mtrs
13	Clear coat Airseal Flue gas Exhaust	16.5 Mtrs
14	Primer Oven UP2 PH 1 Flue gas Exhaust (2 Nos)	16.5 Mtrs each
15	Oven Hood Exhaust (3 Nos )	16.5 Mtrs each
16	ED Cooler Exhaust	16.5 Mtrs
17	Cataphoresis oven combustion gas Exhaust (5 Nos)	16.5 Mtrs each
18	Primer oven UP 2 Flue gas exhaust	16.5 Mtrs
19	Primer oven Exhaust	16.5 Mtrs
20	Primer oven solvent Exhaust	16.5 Mtrs
21	Primer oven zone flue gas exhaust	16.5 Mtrs
22	Booth general Exhaust	24 Mtrs
23	Primer oven exit Airseal Flue gas exhaust	16.5 Mtrs
24	Clear Cooler (Exhaust & Fresh Air)(6 Nos)	16.5 Mtrs each
25	Primer Cooler (Exhaust & Fresh Air) (5 Nos)	16.5 Mtrs each
26	Clear Cooler (Exhaust)	16.5 Mtrs
27	Touch up Preparation exhaust	16.5 Mtrs
28	Touch up Booth Exhaust (5 Nos.)	16.5 Mtrs each

29	ED Sanding Exhaust	16.5 Mtrs
30	Primer oven solvent exhaust (2 Nos)	16.5 Mtrs each
31	Clear Oven solvent exhaust (2 Nos)	16.5 Mtrs each
32	Small repairs Touch up Booth Exhaust (2 Nos)	16.5 Mtrs each
33	Engine Testing Exhaust (10 Nos)	12.7 Mtrs each
34	DG Set (1100 KVA. 3 Nos.)	15 Mtrs each
35	DG Set (110 KVA. 2 Nos.)	8 Mtrs each

3. 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.
4. 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.
5. **CONDITIONS UNDER HAZARDOUS WASTE (MANAGEMENT, HANDLING & TRANSBOUNDARY MOVEMENT) RULES, 2008:**
- (a) The Industry shall handle hazardous wastes as specified below.


Sl. No.	Code	Name of Waste	Quantity	Disposal
1	5.1 5.2	Used / Spent Oil Waste residue containing oil	362 kg/day	Authorized Reprocessor
2	20.2	Spent Solvent (Used Thinner)	5000 Kg/Month	Authorized Reprocessor
3	21.1 21.2	Paint waste & Residue Filter Residues	3994 kg/day	CHWTSDF
4	34.3	Chemical Sludge from waste water treatment	630 kg/day	CHWTSDF
5	12.5	Phosphate Sludge	2000 kg/day	CHWTSDF
6	33.3	Discarded containers / barrels / liners	4000 Nos./Month	Authorized Reprocessor
7	-	Grinding Dust	4000 Kg/Month	CHWTSDF
8	-	Honning Dust	500 Kg / Month	CHWTSDF
9	34.4	Oil & grease skimming residue from ETP	20 Kg/D	CHWTSDF
10	-	E-Waste	60 MT/Y	Authorized Reprocessor

- (iv) 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 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.

**6. 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 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. An inspection book shall be opened and made available to the Board's officers during their visit to the applicant.

- vi. 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.
- vii. 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
- viii. Neither storm water nor discharge from other premises shall be allowed to mix with the effluents from the factory
- 7 This is issued with approval of Consent Appraisal Committee meeting of the Board held on dtd. 03/07/2012
- 8 You shall submit Bank Guarantee of Rs. 5/- Lakh in favor of Regional Officer Pune within 15 days against operation & Maintenance of effluent treatment plant. The Bank Guarantee shall be valid one year period.
- 9 The Capital investment of the industry is Rs. 3577.71 Crs.

  
(Milind Mhaiskar IAS)  
Member Secretary

To,

M/s. Fiat India Automobiles Ltd.  
B-19 MIDC Ranjangaon  
Tal. Shirur, Dist. Pune 412 220

Copy to:

1. Regional Officer Sub-Regional Officer, MPCB, Pune-II-they are directed to obtain B.G. of Rs.5- Lakhs from the industry & submit the detail report of pollution control System within 1 month period.
2. Joint Account Officer, MPCB, Mumbai

Received Consent fee of -

S.No.	Amount (Rs.)	DD No.	Date	Drawn On
1	70,43,892	074439	26/03/2012	Citi Bank
2	2,56,918	182438	17/04/2012	Citi Bank