


MAHARASHTRA POLLUTION CONTROL BOARD

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RED/L.S.I

Date: 20/01/2012

Consent No: BO/JD(APC)/EIC No. **PN-11253-11/O-AC-(98)**

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

Tata Motors Ltd.
Passenger Car Unit,
Sector No. 15 & 15A, PCNTDA,
Chikhali, Taluka – Haveli,
Dist.: Pune: 410 501

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: 31/12/2012.
2. The Consent is valid for the manufacture of -

Sr. No.	Product Name	Maximum Quantity
1	Passenger Cars (Inclusive Jaguar, Landrover Production)	3,00,000 Nos. per Year

3. CONDITIONS UNDER WATER ACT:

- (i) The daily quantity of trade effluent from the factory shall be not exceed 3120 M³
- (ii) The daily quantity of sewage effluent from the factory shall not exceed 1040 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:

1	pH	Between	5.5 to 9.0
2	Suspended Solids	Not exceed	100 mg/l
3	B. O. D.	Not exceed	30 mg/l.
4	C. O. D.	Not exceed	250 mg/l.
5	Oil & Grease	Not exceed	10 mg/l
6	Chloride	Not exceed	600mg/l
7	T. D. S.	Not exceed	2100 mg/l
8	Sulphate	Not exceed	1000 mg/l
9	Lead	Not exceed	0.1 mg/l
10	Manganese	Not exceed	2.0 mg/l
11	Zinc	Not exceed	05 mg/l
12	Iron	Not exceed	03 mg/l
13	Nickel	Not exceed	03 mg/l
14	Copper	Not exceed	03 mg/l
15	Cyanide	Not exceed	0.2 mg/l
16	Cr ⁶⁺	Not exceed	0.1 mg/l
17	Total Chromium	Not exceed	2.0 mg/l

- (iv) **Trade Effluent Disposal:** The industrial effluent shall be recycled to process and used on land for irrigation to maximum extent and excess may be discharged into nala leading to River Pavana along with treated effluent from TATA Motors Ltd. Pimpri Works.
- (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	Quantity	UOM	Treatment Disposal
1.	Canteen waste	1000		Landfill at PCMC notified area at Moshi / Bio-gas plant at Tata Motors Pimpri Works
2.	Mixed trash / garbage from office and shops	10,000		By sale to Scrap Dealers
3	Scrap packaging waste including paper, plastic, thermocole, cardboard etc.	12,500		By sale to Scrap Dealers
4.	Scrap CI, MS, Aluminium chips, burr, forgings etc.	10,000		By sale to Scrap Dealers
5.	Sheet metal scrap	75,000		By sale to Scrap Dealers
6.	Scrap empty containers	18,000		By sale to Scrap Dealers

7.	Scrap rubber, plastic, tyres etc.	300	By sale to Scrap Dealers
8.	Electrical scrap	150	By sale to Scrap Dealers
9.	Scrap forgings, casting, fasteners, structural material etc.	4,400	By sale to Scrap Dealers
10.	Scrap glass-wool used for insulation	100	Landfill at CHW/TSDf
11.	Scrap roof/door liners	100	Landfill at CHW/TSDf

(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	...	1200	CMD
(ii) Industrial Processing	...	3800.0	CMD
(iii) Industrial Cooling	...	600	CMD
(iv) Generating			
Biodegradable waste water (Floor washing, Pre-treatment section of Paint Shop, Paint booth re-circulation system, etc.)	---	0	CMD
(v) 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.

5. CONDITIONS UNDER AIR ACT :

Standards for Emissions of Air Pollutants:

(i)	SPM/TPM	Not to exceed	150	mg/Nm ³
(ii)	So ₂	Not to exceed	152.17	Kg/day
(iii)	So ₂ from process	Not to exceed	50	PPM

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

Type of fuel used	Quantity	Unit
Motor Spirit (Petrol)	2.44	KL/day
High Speed Diesel (HSD)	11.36	KL/day
Liquefied Petroleum Gas (LPG)	5	MT/day
Natural Gas	8.4	Milion Std Cubic meter

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

Sr. No.	Chimney No	Chimney Attached To	Height
1	Ch-1	Diesel engine test bed exhaust	20
2	Ch-2	Petrol vapour exhaust system (E)	14
3	Ch-3	Petrol engine test bed exhaust system (W)	20
4	Ch-4	Aquatherms- PT/CED Area (N) Paint Shop	36
5	Ch-5	Aquatherms Paint Shops (S)	36
6	Ch-6	Small parts oven exhaust duct (N) Paint Shop	15
7	Ch-7	PT Dry-Off Oven exhaust duct (N)	14.8
8	Ch-8	PT Dry-Off Oven purge duct # 1	14.8
9	Ch-9	PT Dry-Off Oven purge duct # 2	14.8
10	Ch-10	Surfacer Oven Hold Zone-I (East)	13.0
11	Ch-11	Surfacer Oven Hold Zone-II (West)	13.0
12	Ch-12	Thermax Saima paint oven exhaust	12.5
13	Ch-13	Thermax Saima paint burner exhaust	12.5
14	Ch-14	CED oven flue gas- I (N)	12.0
15	Ch-15	CED oven flue gas-II (middle)	12.0
16	Ch-16	CED oven incinerator (S)	16.0
17	Ch-17	Under body sealant oven exhaust duct	13.5
18	Ch-18	Surfacer oven flue gas-I (W)	16.0
19	Ch-19	Surfacer oven flue gas-II (E)	16.0
20	Ch-20	Top Coat oven flue gas-I (E)	16.0
21	Ch-21	Top Coat oven flue gas-II (W)	16.0
22	Ch-22	Black Coat oven flue gas-I	12.0
23	Ch-23	Black Coat oven exhaust duct	13.5
24	Ch-24	Main Canteen	18.0
25	Ch-25	Fluidised Bed Grill Cleaning Set-up	10.5
26	Ch-26	Shot blasting Exhaust Stage – 1(E) Trans-Axle Heat Treatment Shop	10.5
27	Ch-27	Shot blasting Exhaust Stage – 1(E) Trans-Axle Heat Treatment Shop	10.5
28	Ch-28	DICOR Diesel Engine Test Bed #1-3, Grid BC, Col. 20-21 (South)	14.0
29	Ch-29	DICOR Diesel Engine Test Bed #4-6, Grid BC, Col. 20-21 (North)	14.0
30	Ch-30	DG Set No.1 (North) – standby power supply for PT-CED (Paint Shop)	15
31	Ch-31	DG Set No.2 (South) – standby power supply for PT-CED (Paint Shop)	15

- (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) Fume Extraction system followed by dust collecting system of sufficient capacity shall be provided to all sources of SPM operate and maintain properly
- 2) Fume Extraction system followed by scrubber system of sufficient capacity shall be provided to all sources of gaseous emission
- 3) Painting activity should be done in an enclosure.

6. 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 70dB(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

(vi) 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 & TRANSBOUNDARY MOVEMENT) RULES, 2008:

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

Sr. No.	Waste category No. as per the Rules	Description of hazardous waste		Quantity (MT/Y)	Disposal
		As per Schedule-I of the HW (MH & TM) Amendment Rules, 2008	Waste Description		
1	5.1	---	Used/spent oil (Scrap/waste oil / fuel 'LOTS')	295	Sale to CPCB/MPCB "Registered Recyclers"
2	5.2	---	Wastes/residues containing oil (ETP Oily scum / sludge)	500	CHWTSDF
3	5.2	---	Wastes / residues containing oil (Grinding Sludge)	360	CHWTSDF
4	5.2	---	Wastes / residues containing oil (Scrap Fuel Filters)	50	CHWTSDF
5	12.1 12.2	---	Acid residues & Alkali residues (Tank bottom sludge from PT process)	25	CHWTSDF
6	12.5	---	Phosphate sludge	125	CHWTSDF
7	15.1 15.2	---	Asbestos-containing residues & Discarded asbestos (Scrap - insulating material/vehicle parts/ PPE - containing asbestos)	50	CHWTSDF
8	20.1 20.2	---	Contaminated aromatic, aliphatic or naphthenic solvents not fit for originally intended use (i) Spent solvents (Contaminated / waste / spent – solvents, thinners etc.)	2000 KL/Year	Sale to CPCB / SPCB Authorised Recycler / CHWTSDF
9	21.1	---	Wastes and residues (Paint sludge, hardened paint residue, paint soaked material, tins with hardened residue, paint/oil soaked cardboard, cotton waste, cloth etc)	1000	CHWTSDF/ CPCB/MPCB Registered Recycler for conversion into industrial primer
10	23.1	---	Wastes/residues (not made with vegetable or animal materials) [(i) Residue of UB compound, sealants, adhesives, glues, putty, (ii) Scrap sealants, (iii) Used / spent plasticizers, (iv) Uncured/scrapped resins, hardeners sealants, adhesives, glues, putty etc. (v) Pattern waste from R & D Activity (vi) Scrap FRP Waste	100	CHWTSDF
11	34.1	---	Flue gas cleaning residue (Soot from chimney / duct cleaning)	5	CHWTSDF
12	34.2	---	Toxic metal-containing residue from used – ion exchange material in water purification (Spent resins from DM Plant)	100	CHWTSDF
13	34.3	---	Chemical sludge from waste water treatment (ETP Sludge)	1000	CHWTSDF
14	35.2	---	Spent catalyst (Spent Ni / Al catalyst)	5	CHWTSDF
15	---	As per Schedule-II chemical characterization done by NEERI	Bag-filter dust from Shot-blasting process	800	CHWTSDF
16	---	Hazardous Waste as per Schedule-4. List of Non-Ferrous Metal Wastes applicable for registration of Recyclers	Copper based scrap consisting of brass / bronze / copper cuttings, punching, casting, bushing, turning & boring scrap etc.	300 MT	Sale to CPCB/MPCB "Registered Recyclers"
17	---		Scrapped brass, copper, aluminium, turning & boring mixed with MS chips etc. & cotton waste and rags beyond segregation	300 MT	
18	---		Used / scrapped electrical PVC coated copper cable, telephone cables, jelly filled	500 MT	

Sr. No.	Waste category No. as per the Rules	Description of hazardous waste		Quantity (MT/Y)	Disposal
		As per Schedule-I of the HW (MH & TM) Amendment Rules, 2008	Waste Description		
19	---		telephone cables, copper druid etc., Scrap copper based heat exchangers, radiators, motors, starters, wiring harness etc items with / without bracket along with brass / aluminium/MS attached to it	600 MT	
20	---		1. Used/scrapped copper electrodes	300 MT	
21	---		2. Scrapped/Used Lead Acid Batteries with/without MS box caps etc.	400 MT	
22	---	Hazardous Waste as per Schedule-4: List of Non-Ferrous Metal Wastes applicable for registration of Recyclers	3. e-waste (waste electrical and electronic equipment) as per Schedule-I of the "e-waste (Management Handling) Rules 2011" notified on 12/05/11	100 MT	By sale to Authorized re-processors /recyclers granted registration by MPCB Registration Committee

(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.

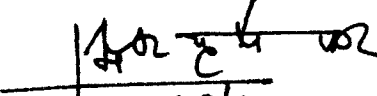
It shall be ensured that the Hazardous waste is handled, managed & disposed of strictly in accordance with the Hazardous Waste (Management & Handling) Rules, 1989 as amended on 2003 and shown & submitted to the Board as & when asked for.

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 the 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 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.
 - x. 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. **This is issued with approval of Consent Appraisal Committee meeting of the Board held on dtd. 13/01/2012**
 10. **Industry shall provide separate sewage treatment plant for treatment of sewage effluent by December 2012 so as not to discharge any effluent outside the factory premises & submit the progress report quarterly.**
 - 11 **You shall submit Bank Guarantee of Rs.50 Lakhs in favor of Regional Officer Pune within 15 days for installation & commissioning of the recycle system. The Bank Guarantee shall be valid for one year**

12. The Capital investment of the industry is Rs. 4173 Crs.


(Milind Mhaskar IAS)
Member Secretary

To,
Tata Motors Ltd.
Passenger Car Unit,
Sector No. 15 & 15A, PCNTDA,
Chikhali, Taluka – Haveli,
Dist.: Pune: 410 501

Copy to:

RO- MPCB Pune /SRO-MPCB Pimpri Chinchwad

- They are directed to ensure the compliance of consent conditions & obtain the B.G. of Rs. 50 Lakhs from the industry & submit the detail report of pollution control System within 1 month period.

CAO/Cess Branch/Master File

Received Consent fee of -

Sr. No.	Amount(Rs.)	DD. No.	Date	Drawn On
1	84,47,520/-	123650	15/09/2011	HDFC Bank

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