


# MAHARASHTRA POLLUTION CONTROL BOARD

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Red/L.S.I

Consent No: BO/JD(APC)/EIC No. **PN-11220-11 /RCC-** Date: **11/06/2012** ~~1/2012~~ **CAC-451**

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. General Motors India Pvt. Ltd.**  
**A-16, MIDC Talegaon,**  
**Near Floriculture Park**  
**Tal. Maval, 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: **31/08/2014**.  
Phase I consist of Body Shop, Paint Shop, General Assembly, Part Distribution Center, Central Utility Complex, Press Shop, and Power Train as per CTE Nomenclature Phase III
2. The Consent is valid for the manufacture of -

Sr. No.	Product Name	Maximum Quantity	UOM
1	Automotive Units (Phase-I)	184000	Nos./Annum
2	ICP Engines	160000	Nos./Annum
3	Automotive Parts Distribution Center	-	-

(Without electroplating and foundry operation )

### 3. CONDITIONS UNDER WATER ACT:

- (i) The daily quantity of trade effluent from the factory shall not exceed **900.0 M<sup>3</sup>**.
- (ii) The daily quantity of sewage effluent from the factory shall not exceed **257.M<sup>3</sup>**.
- (iii) Trade & Sewage Effluent Treatment:

"The applicant shall provide primary treatment system for treating the effluent to meet the effluent standards with reference to effluent quality and operate and maintain the same continuously so as to meet the following effluent discharge standards at the site."

Sr.no	Parameter		Limits
1	pH	Between	5.5 to 9.0
2	BOD 3 days 27 Deg. C	Not to exceed	450 mg/l
3	Oil & Grease	Not to exceed	25 mg/l
4	Total Suspended Solids	Not to exceed	600 mg/l.
5	Cyanide (as 'CN')	Not to exceed	2.0 mg/l.
6	Cadmium (as Cd)	Not to exceed	1.0 mg/l
7	Nickel (as Ni)	Not to exceed	3.0 mg/l
8	Zinc (as Zn)	Not to exceed	15.0 mg/l
9	Chromium as Cr Hexavalent Total	Not to exceed	2.0 mg/l.
10	Total Chromium (as Cr)	Not to exceed	2.0 mg/l
11	Copper (as Cu)	Not to exceed	3.0 mg/l.
12	Lead (as Pb)	Not to exceed	1.0 mg/l.
13	Iron (as Fe)	Not to exceed	3.0 mg/l.
14	Arsenic (as As)	Not to exceed	0.2 mg/l
15	Mercury (as Hg)	Not to exceed	0.01 mg/l
16	Selenium (as Se)	Not to exceed	0.05 mg/l
17	Fluoride (as F)	Not to exceed	15.0 mg/l
18	Phenolic compounds (as C <sub>6</sub> H <sub>5</sub> OH)	Not to exceed	5.0 mg/l
19	Manganese (as Mn)	Not to exceed	2.0 mg/l
20	Vanadium (as V)	Not to exceed	0.2 mg/l
21	Ammonical Nitrogen (as N)	Not to exceed	50 mg/l

(iv) Sewage & Treated Waste Water Disposal:- The treated effluent shall be discharge in to the sewer collection sump and pumping station provided by MIDC leading to terminal Common Effluent Treatment Plant Talegaon

(v) Non-Hazardous Solid Wastes:

Sr. No	Type Of Waste	Quantity	UOM	Disposal
1	Metal Scrap	32.840	MT/A	To Vendors for secondary Use/By Sale
2	Waste wood (including Wooden Pallet)	8.520	MT/A	To Vendors for secondary Use/By sale
3	Waste Automotive Glass	60	MT/A	To Vendors for secondary Use
4	Scrap Rubber (Tyer, Door Linnners Etc)	400	MT/A	To Vendors for secondary Use/By sale
5	Grinding Dust	10	MT/A	To Vendors for secondary Use
6	Food wastes from cafeteria	130	MT/A	Disposal to nearby farms for secondary Use/humus pits for use as manure nearby piggery
7	Plastic waste from plant including other non biodegradable food packs from Cafeteria	651	MT/A	To Vendors for secondary Use/by sale
8	Paper & Cardboard	14.250	MT/A	To Vendors for secondary Use/by sale
9	General Plant Trash including rags and wipes (non- Hazardous)	1,321	MT/A	To Vendors for secondary Use/by sale
10	Metal Grinding Swarf	750	MT/A	To Vendors for secondary Use

11	Non Ferrous Metal	1.100	MT/A	To Authorized Reprocessor
12	Waste Automobile Glass	10	MT/A	

(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.

**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	...	385.00 CMD
(ii) Industrial Processing	...	1100.00 CMD
(iii) Industrial Cooling	...	125.00 CMD
(iv) Agriculture / Gardening	...	400.00 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 collection system followed by water scrubber shall be provided for the primer surfaces, base coat and clear coat booths.
- ii) Dry filters of adequate capacity shall be provided for PVC booth, body sealers and other locations as per requirements.

**b. 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	200 Kg/Day.

(Excluding fuel used for filling in manufactured vehicle)

**c. Conditions for D.G. Set**

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.

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

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

Sr. No.	Type Of Fuel	Quantity	UOM
1	Compressed Natural Gas/LNG	2000	GJ/Day
2	LPG	2001	GJ/Day
3	Kerosene	5	Kg/ Day
4	HSD	9.3	Kl/Day
5	Petrol (for vehicle & engine testing)	8233	Kg/ Day
6	Diesel(for vehicle & engine testing)	10693	Kg/Day

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

Sr. No.	Chimney Attached To	Height
1	CO2 area exhaust	3.0 mtrs above building roof
2	Pre-treatment/Phosphate line-1	3.0 mtrs above building roof
3	Pre-treatment/ Phosphate line-2	3.0 mtrs above building roof
4	Pre-treatment/ Phosphate line-3	3.0 mtrs above building roof
5	Offline ELPO sand	3.0 mtrs above building roof
6	Elpo tank, rinse, inspection Deck-1	3.0 mtrs above building roof
7	Elpo tank, rinse, inspection Deck-2	3.0 mtrs above building roof
8	Elpo oven	3.0 mtrs above building roof
9	Elpo Cooler zone	3.0 mtrs above building roof
10	Elpo sanding booth Under body sealer	24 above ground level
11	Primer oven- Combustion	3.0 mtrs above building roof
12	Primer oven- Combustion	3.0 mtrs above building roof
13	Primer oven- Exhaust	3.0 mtrs above building roof
14	Primer oven- Exhaust	3.0 mtrs above building roof
15	Primer cooler zone	3.0 mtrs above building roof
16	Primer Moist sand	3.0 mtrs above building roof
17	Repair booth -heavy	3.0 mtrs above building roof
18	Repair booth -spot repair	3.0 mtrs above building roof
19	Topcoat oven- Combustion	3.0 mtrs above building roof
20	Topcoat oven- Combustion	3.0 mtrs above building roof
21	Topcoat oven- Combustion	3.0 mtrs above building roof
22	Topcoat oven- Combustion	3.0 mtrs above building roof
23	Topcoat oven- Combustion	3.0 mtrs above building roof
24	Repair booth	3.0 mtrs above building roof
25	Topcoat oven- Combustion	3.0 mtrs above building roof
26	Topcoat oven- Exhaust	3.0 mtrs above building roof
27	Topcoat oven- Exhaust	3.0 mtrs above building roof
28	Topcoat cooler zone	3.0 mtrs above building roof
29	Topcoat booth and flash-off.RTO exhaust.Spray booth sludge pit exhaust duct, Primer booth and flash-off (Common Stack)	60 above ground level
30	Exhaust blower-paint mix room	3.0 mtrs above building roof
31	Anti-Chip Application	11 mtrs above building roof
32	Vehicle roll test area	3.0 mtrs above building roof
33	Vehicle roll test area	3.0 mtrs above building roof
34	Fuel Filling Area	3.0 mtrs above building roof
35	DG Set (380 KVA PAINT SHOP) STACK FROM GL	20.5 above ground level
36	DG set (750 KVA, CUC) FROM GL	20.5 above ground level
37	Hot Water generator (CUC)	7.5 mtrs above building roof
38	Hot Water generator-LPG	30.0 mtrs above ground level
39	Fire Pump House (Near	3.0 mtrs above building roof

	CUC)	
40	Fire Pump House (Near CUC)	3.0 mtrs above building roof
41	Fire Pump House (Near Bodyshop)	12 above ground level
42	Fire Pump House (Near Bodyshop)	12 above ground level
43	Block washer	1.0 mtrs above building roof
44	Block washer	1.0 mtrs above building roof
45	Block Machining	1.0 mtrs above building roof
46	Block Machining	1.0 mtrs above building roof
47	Block Honing	1.0 mtrs above building roof
48	Cam Machining	1.0 mtrs above building roof
49	Cam Washer	1.0 mtrs above building roof
50	Head machining	1.0 mtrs above building roof
51	Head washer	1.0 mtrs above building roof
52	Head machining	1.0 mtrs above building roof
53	Head machining	1.0 mtrs above building roof
54	Crankshaft washer	1.0 mtrs above building roof
55	Hot Test Area	3.0 mtrs above building roof
56	Hot Test Area	3.0 mtrs above building roof

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.

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	21.1	Paintsludge And Waste Paint	814	MTPA	To CHWTSDF/ Authorized Recycler
2	12.5	Phosphate sludge from pa shop	100	MTPA	To CHWTSDF/ Authorized Recycler
3	34.3	Effluent Treatment Plant (ETP)Sludge	120	MTPA	To CHWTSDF
4	5.1	Used / Spent Oil	200	MTPA	To CHWTSDF/ Authorized Recycler
5	20.2	Spent Solvents	100	MTPA	To CHWTSDF/ Authorized Recycler
6	33.3	Discarded Container Hazardous	157600	NPA	To CHWTSDF/ Authorized Recycler

		Chemicals/Hazardous Waste			
7	5.2	Waste Residues/ Residue containing Oil / Waste Oil	450	MTPA	To CHWTSDF
8	23.1	Waste Sealant	220	MTPA	To CHWTSDF/ Authorized Recycler
9	B4	Waste Batteries (Lead Acid, Lithium, Ni/Cad)	5305	NPA	Authorized Recycler
10	A6	Florescents Tubes and Bulbs	1	MTPA	Authorized Recycler

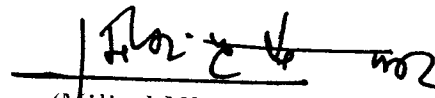
(ii) Treatment: - NIL

- 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 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 & TRANSBOUNDARY MOVEMENT) RULES, 2008 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 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. 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 This is issued with approval of Consent Appraisal Committee meeting of the Board held on dtd. 29/05/2012
11. This consent is issued in supersession of earlier consent vide No.BO/JD(APC)/EIC No. PN-11220-11/R/CC-497 dated 17/10/2011
12. The Total Capital investment of the industry is Rs. 2296 Crs.(Existing C.I. Rs. 2220 Crs + C.I. of Automotive parts distribution Center Rs. 76.00 Crs)

  
(Milind Mhaiskar IAS)  
Member Secretary

To,  
M/s. General Motors India Pvt. Ltd.  
A-16, MIDC Talegaon,  
Near Floriculture Park  
Tal. Maval, Dist- Pune

Copy to:

1) Regional Officer/Sub-Regional Officer, MPCB, Pune-II-they are directed to ensure the compliance of consent conditions & submit the detail report of pollution control System within 1 month period.

2) Chief Accounts Officer, MPCB, Mumbai

Received Consent fee of -

Sr. No.	Amount(Rs.)	DD. No.	Date	Drawn On
1	6666000/-	097476	08/06/2011	City Bank
2	100/-	115874	10/06/2011	City Bank
3	5726500/-	894651	07/10/2011	City Bank
4	1879000/- (Previous balance 9,39,500/- adjusted while issuing this consent)	057422	08/10/2011	Citi bank
5	100	116718	10/06/2011	Citi bank
6	225000	116719	10/06/2011	Citi bank
7	225000	894652	07/10/2011	Citi Bank