

MAHARASHTRA POLLUTION CONTROL BOARD

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Kalpataru Point, 2nd - 4th Fl.

Opp. Cine Planet Cinema,

Near Sion Circle, Sion (E)

Mumbai-400 022.

Red/LSI

Consent No .BO/JD PAMS/RO Pune/EIC-PN-16240/ CAC- 113

03/01/2013
Date: ~~12/2012~~

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 Authorisation / Renewal of Authorisation under Rule 5 of the Hazardous Wastes (Management , Handling & Transboundry) Rules 2008.

[To be referred as Water Act, Air Act and HW (M, H&TM) Rules respectively].

CONSENT is hereby granted to –

M/s. ASIAN PAINTS LIMITED

Plot No. A-1, M.I.D.C. Khandala-Kesurdi Phase-I,

Tal. Khandala, District. Satara-410301.

Located in the area declared under the provisions of the Water Act, Air act and Authorisation 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 31/12/2013.
2. The consent is valid for the manufacture of –

Sr No	Product	Maximum Quantity (TPA)
1.	Solvent based & Water based Paints	4,00,000
2.	Resins / Polymers	1,60,000

3. CONDITIONS UNDER WATER ACT:

(i) The daily quantity of trade effluent from the factory shall not exceed 116 M³.

(ii) The daily quantity of sewage effluent from the factory shall not exceed 62 M³.

(iii) **Trade effluent:** The applicant shall provide a comprehensive treatment system consisting of primary /secondary and or / tertiary treatment followed by Reverse Osmosis and Multiple Effect Evaporator 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	pH	Between	6.0 to 8.5
2.	Suspended solids	Not to exceed	100 mg/l
3.	BOD 3 days 27 Deg C	Not to exceed	50 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.	Phenolics as C ₆ H ₅ OH	Not to exceed	1.0 mg/l

8.	Lead as Pb	Not to exceed	0.1 mg/l
9.	Chromium Hexavalent	Not to exceed	0.1 mg/l
10.	Chromium Total	Not to exceed	2.0 mg/l
11.	Zinc as Zn	Not to exceed	5.0 mg/l
12.	Total Heavy Metals	Not to exceed	7.0 mg/l
13.	Nickel as Ni	Not to exceed	2.0 mg/l
14.	Bio-assay test	90% survival of fish in 96 hours in 100 percent effluent	

(iv) **Trade and Sewage effluent Disposal:** The trade effluent shall be treated by Reverse Osmosis & recycled/reused to the maximum extent in the process and remaining should be used on land for gardening within own premises. The RO-reject generated shall be disposed by Double Effect Forced Evaporator followed by Film dryer and reused in polymer solution before spray drying. In no case effluent shall find its way to any water body directly/indirectly at any time.

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

Sr. No.	Description	Quantity (TPA)	Disposal
1	Broken wooden scrap	700	By sale
2	Waste papers, cardboards etc.	1175	
3	Waste Plastic	120	
4	PVC Pipes	5	
5	Metal Cover Sheets	15	
6	Waste Container	50	
7	Other Waste	65	

(vii) **Other conditions :**

The industry shall monitor effluent continuously through MoEF approved laboratory.

3. **The applicant shall comply with the provisions of the Water (Prevention & Control of Pollution) Cess Act, 1977 (to be referred as Cess Act) and Rules there under.**

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

(i)	Domestic Purpose	57	CMD
(ii)	Water gets polluted & Pollutants are Biodegradable	83	CMD
(iii)	Water gets Polluted, Pollutants are not Biodegradable & toxic	----	CMD
(iv)	Industrial Cooling	186	CMD
(v)	Agriculture/Gardening (including treated effluent)	203	CMD
(vi)	Water used as Raw Material & consumed into products.	684	CMD

The applicant shall regularly (quarterly) 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.

4. **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 :
- (ii) Control Equipment :

1. Dust Collector of sufficient capacity shall be provided to limit the air emissions.
2. Water and Carbon Scrubber of sufficient capacity shall be provided to process reactor or / and any other source of emission to limit the process emissions.

Standards for Emissions of Air Pollutants:

(1)	SPM/TPM	Not to exceed	150	mg/Nm ³ .
(2)	SO ₂	Not to exceed	1182	Kg/Day.
(3)	NH ₃ From process vent	Not to exceed	20	ppm (for each)
(4)	Monomers From process vent	Not to exceed	20	ppm (for each)
(5)	HC From process vent	Not to exceed	20	ppm (for each)
(6)	Propylene Glycol From process vent	Not to exceed	50	ppm (for each)

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

<u>Sr. No.</u>	<u>Type of Fuel</u>	<u>Quantity</u>
1.	HSD	59100 Kg/day.

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

<u>Sr. No.</u>	<u>Chimney attached to</u>	<u>Height in Mtrs.</u>
1.	Boilers (3 nos.)	30 each
2.	Total Thermic Fluid Heater (3 Nos.)	32 each.
3.	Incinerator	30
4.	D. G. Set (2000 KVA)	9 *
5.	D. G. Set (1000 KVA)	7*
6.	D. G. Set (500 KVA)	4.5 *

(* above the roof of the building in which it is installed.)

- (iv) The applicant shall provide ports in the chimney(s) and facilitates 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.
- (v) The industry shall take adequate measures for control for 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. Daytime is reckoned in between 6 a.m. and 10 p.m. And nighttime is reckoned between 10 p.m. and 6 p.m.

Standards for Incinerator as per CPCB guidelines:

Applicant shall provide and/or upgrade the existing incinerator so as to comply the following standards and conditions.

A) Emission limit of Incineration while operating properly at 100 % rated capacity, shall have an emission limit from the discharge stack to atmosphere of less than or equal to :

Parameter	Emission limit (mg/Nm ³)
Particulate Matter	50
HCl	50
SO ₂	200
CO	100
Total Organic Carbon	20
HF	4
NO _x	400

All values corrected to 11% oxygen on a dry basis.

- B] Hydro carbons 10 ppm over an hourly rolling average dry basis, measured as propane.
- C] Capacity : While operating properly at 100% rated capacity, the system shall be have a visible emission rate of less than or equal to 10% except for condensed water vapour from the discharge stack to atmosphere (one hour rolling averages).
- D] Dioxin Furans : While operating properly at 100% rated capacity, the system shall be an emission of dioxins and furans of less than of equal to 0.1 nanogram TEQ/NM3 corrected to 10% oxygen, Sampling period shall be minimum 5 hours and maximum 8 hours. Analysis at dioxin and furans as well as reference measurement methods to calibrate automated measurement system shall be carried out as given by CEN standards. If CEN standards are not available, ISO Standards, National or International Standards which will ensure the provision of data of an equivalent scientific quality shall apply.
- E] Metals: While operating properly at rated capacity, the system shall have an emission rate from the discharge of stack to atmosphere less than or equal to:

Metal	
Cd+Th (and its compounds)	0.05Mg/NM3
Hg (and its compounds)	0.05
Sb+As+Pb+Cr+Co+Mn+Ni+V (and their compounds)	0.5

All values corrected to 11% oxygen on a dry volume basis.

- F] Operating Standards:
1. Combustion efficiency (CE) shall be at least 99.9% and shall be computed as follows-

$$CE = \% \text{CO}_2 / (\% \text{CO}_2 + \% \text{CO}) \times 100$$
 2. Temperature of the primary chamber shall be at least 850°C.
 3. Secondary chamber gas residence time shall be at least 2 (two) second at 1100°C will minimum 3% oxygen in the stack gas.
 4. Destruction and Removal Efficiency (DRE) for each principal Organic hazardous constituent (POHC) in the waste lead shall be at least 99.99%.
 5. DRE for hazardous waste containing PCBs, PCTs and other Chlorinated compounds shall be 99.9999%.
- G] Air pollution control devices: The emission control system shall be installed for cleaning and removal of air pollutants. The system shall comprises of following equipment. Singly or in combination with design efficiencies to meet the emission norms:
- i) Waste heat boiler/heat exchange/quench
 - ii) Bag filters (ESP)/Cyclone
 - iii) Dry/wet scrubber with hydrated lime or sodium hydroxide injection.
 - iv) Chimney/stack of minimum 30 m height or as per formula 14

$$(Q)^{0.1}$$
 [Where Q is emission rate of SO₂ in Kg hr] which ever is more and designed as per GEP.
 [Note Dry/wet ESP, spray dryer, deduster filter and mist eliminator shall also be considered as may be required.]
- H] Operating Conditions: Incineration plants shall be operated in order to achieve a level of incineration such that the slag and bottom ashes Total Organic Carbon (TOC) content is less than 3% or their loss on ignition is less than 5 of the dry weight of the material. If necessary, appropriate techniques of waste pre-treatment shall be used. Incineration plants shall be designed, equipped, built and operated in such a way that the gas resulting from the process is raised after the last injection of combustion air, in a controlled and

homogenous fashion and even under the most unfavorable conditions to a temperature of 850°C as measured near the inner wall or at another representative point of the combustion chamber as authorized by the Competent Authority for two seconds. If hazardous wastes with a content of more than 1% of halogenated organic substances, expressed as chlorine, are incinerated, the temperature has to be raised to 1200°C + 100 for at least two seconds. Each line of the incineration plant shall be equipped with at least one auxiliary burner. This burner must be switched on automatically when the temperature of the combustion gases after the last injection of combustion air falls below 850°C or 1100°C as line the case may be is maintained at all times during these operations and as long as unburned wastes is in the combustion chamber. During the start up and shut down or when temperature of the combustion gas falls below : 850°C or 1100°C as line the case may be, the auxiliary burner shall not be fed with fuels with emissions than those permitted.

- I] Monitoring requirements: Continuous monitoring and recording system for opacity CO, SO₂ and NO_x shall be installed and reported shall be sent to the State Pollution Control Boards on regular basis. Interlocking arrangements for CO and temperature controls (in primary and secondary chamber) with feeding devices shall also be provided waste feed has also to be terminated on loss of ignition in the after burner safety valve in case of high pressure development in the furnace.
- J] Notification of Compliance: The operator of the incinerator shall undertake comprehensive performance test. Within 90 days of completion of comprehensive performance test. The operator shall issue a notification of compliance documenting compliance or non compliance, as the case may be, for public information.

Conditions for D G set :

1. Noise from the D G set should be controlled by providing an acoustic enclosure or treating the room acoustically.
2. Industry should provide acoustic enclosure for control of noise. The acoustic enclosure or 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 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 to control the 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 6.00 a.m. to 10 p.m. and night time is reckoned between 10 p.m to 6.00 a.m.
4. The industry should make efforts to bring down the noise levels due to D.G.Set, outside industrial premises within ambient noise requirements by proper siting and control measures.
5. Installation of the D.G. set must be strictly in compliance with recommendations of the D G set manufacturer.
6. A proper routine and preventive maintenance procedure for D G set should be set and followed in consultation with the D G set manufacturer which would help to prevent noise levels of the D G set from deteriorating with use.
7. D G set should be operated only during power failure.
8. The applicant should not cause any nuisance in the surrounding area due to operation of the D G set.

Other Conditions :

1. The Industry shall not cause any nuisance in the surrounding area.

2. The industry should monitor stack emissions and ambient air quality regularly from MoEF approved laboratory.

3.

6. CONDITIONS UNDER HW (M&H0 RULES, 1989 & AMENDMENT RULES, 2003

(i) The applicant shall handle hazardous wastes as specified below:

Sr. No	HW as per Schedule-I	Type of waste	Quantity (MT/Yr)	Disposal	
1.	3.1	Oil contaminated with wash water & sludge	10	CHWTSDF	
2.	3.3	Sludge and filters contaminated with oil	10		
3	20.3	Distillation Residue	85		
4	34.4	Oil & Grease Skimming residue	15		
5	5.1	Used/Spent oil	40	Sale to authorised reprocessor/ CHWTSDF	
6	20.1	Contaminated aromatic, aliphatic or naphthenic solvents may or may not be fit for reuse	150		
7	15.2	Discarded Asbestos	5	CHWTSDF	
8.	21.1	Process waste, residue and sludges	275	Reuse/recycle by sale to Authorised Actual user.	
9.	23.1	Wastes /residues	75		
10	21.1	Process waste, residue and sludges	275	CHWTSDF	
11	23.1	Wastes and residues such as filter aids	20		
12	33.1	Chemical containing residue arising from decontamination	15		
13	33.3	Discarded liners contaminated with hazardous waste/chemicals	6		
14	33.3	Discarded containers contaminated with hazardous waste/chemicals	50		
15	34.1	Flue gas cleaning residue	5		
16	34.2	Spent ion exchange resin containing toxic metals	10		
17	34.3	Chemical Sludge from Waste water treatment (dry basis)	250		
18	35.3	Spent carbon	5		Return back to supplier for regeneration

19	36.2	Ash from Incineration of hazardous waste, flue gas cleaning residue	150	Secure landfill in approved TSDF facility
20	33.3	Discarded barrels contaminated with hazardous waste/chemicals (Barrels,/carboys/Drums/Totes)	30,000 Nos./Yr.	Reuse/recycle by sale to Authorised Actual user.
21	Class A	Lead Acid Batteries	500 Nos./Yr.	Return back to supplier.

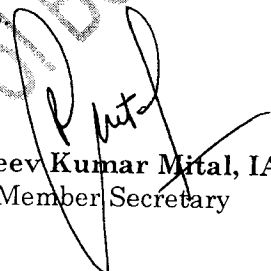
(ii) Industry shall install incinerator as per the guidelines of CPCB and comply the conditions of H.W. (M, H & T, M) Rules, 2008.

7. Whenever due to any accident or release of gases 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 and the production process should be stopped by taking all necessary safety measures. The industry shall also monitor the emissions and ensure that the emissions do not cause any harm or nuisance in the surrounding. The industry should not restart the process without permission of the Board and other statutory organizations as require under the law.

8. General conditions:

- (i) The applicant shall bring minimum 33% of the available open land under green coverage/ plantation. The applicant shall submit a yearly statement by 30th September every year on available open plot area, no. of trees surviving as on 31st March of the year and no. of trees planted by September end.
- (ii) The applicant shall provide for an alternate electric power source sufficient to operate all pollution control facilities installed by he applicant and operate the same in case of power failure to maintain compliance with the terms and conditions of the consent. In the absence of same, the applicant shall stop, reduce or otherwise, control production to abide by terms & conditions of this consent regarding pollution levels.
- (iii) The applicant shall make an application for renewal of the consent at least 60 days before the date of the expiry of the consent. 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.
- (iv) The firm shall submit MPCB, 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 before 30th September every year.
- (v) The applicant shall install a separate 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. The applicant shall also submit a comparative statement of designed power and chemical consumptions vis-a vis actual power and chemical consumption along with Environmental statement.
- (vi) 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. Neither storm water nor discharge from other premises shall be allowed to mix with the effluents from the factory.

- (vii) 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. An inspection book shall be opened and made available to the Board's officers during their visit to the applicant.
- (viii) The industry shall ensure that fugitive emissions from the activity are controlled so as to maintain clean and safe environment in and around the factory premises.
- (ix) The applicant shall maintain good house keeping and take adequate measures for control of pollution from all sources so as not to cause nuisance to surrounding area / inhabitants.
9. The consent should not be construed as any exemption from obtaining necessary NOC from other Govt. agencies as may deemed fit necessary.
10. Applicant shall comply with the conditions stipulated in Environmental Clearance
11. This consent is issued as per the decision taken in Consent Appraisal Committee meeting of the Board held on 27/12/2012.
12. The capital investment of the industry is Rs. 1045.46 Crores.


(Rajeev Kumar Mital, IAS)
Member Secretary

To.
M/s. ASIAN PAINTS LIMITED
Plot No. A-1, M.I.D.C. Khandala-Kesurdi Phase-I,
Tal. Khandala, District. Satara-410301.

Copy to:

- 1) Regional Officer, MPCB, Pune / Sub-Regional Officer, MPCB, Satara
2) Chief Accounts Officer, MPCB, Mumbai
3) Cess Branch, MPCB. 4] Master file.

Received Consent fee of -

<u>Amount</u>	<u>D.D.No.</u>	<u>Date</u>	<u>Drawn on</u>
Rs. 20,90,920/-	240121	10/09/2012	SBI
Rs. 3,20,920/-	241547	08/11/2012	SBI