

MAHARASHTRA POLLUTION CONTROL BOARD

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Consent order No :- Formate 1.0/ BO/CAC-Cell/ EIC No PN-22959-14/26thCAC-2355
Date-02/03/2015

To,
M/s 3M India Ltd,
Plot No. B-20, MIDC Ranjangaon,
Tal- Shirur, Dist - Pune

Subject: Renewal of consent to operate RED category.

Ref: 1. Earlier Consent granted vide no Formate 1.0/BO/CAC-CELL/EIC NoPN-20022-13/18th CAC-589 dated 20.1.2014.
2. Your application approved in CAC meeting held on 24.02.2015

Your application: CR1409000465
Dated: 22.09.2014

For: Renewal of 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 under Rule 5 of the Hazardous Wastes (M, H & T M) Rules 2008 is considered and the consent is hereby granted subject to the following terms and conditions and as detailed in the schedule I, II, III & IV annexed to this order:

1. The consent is granted for a period from 31.10.2014 to 31.10.2016.
2. The actual capital investment of the industry is Rs.258.35 Crs. (As per C.A.Certificate submitted by industry)
3. The Consent is valid for the manufacture of -

Sr. No.	Product/ By-Product Name	Maximum Quantity
1	Jumbo tapes	2780833 Square meters/month
2	Scotch Brite	10318707 Numbers/month
3	Nose mask	1781667 Numbers/month
4	Repacking of Adhesives	400 L/month
5	Repacking of Thinner/ Primers	4000 L/month
6	Repacking of Paste Glaze	2200 L/month
7	Drape packing	70000 Pouches/month
8	Surgical tape slitting	500000 Pkt /month
9	Repacked Tapes & Dressings	500000 Pkt /month
10	Surgical instrument cleaner	13000 Liters/month
11	Non-woven abrasive products (Jumbo, roll, pad, brushes and wheels)	479000 Square meters/month
12	Abrasive wheels and accessories, Square meters/ Month	600 Square meters/month
13	Dressings (surgical dressings, tapes etc)	16500000 Pkt / month
14	Skin application products	170 KL/month
15	Instruments, Surface cleaning	215 KL/month

	and disinfection products	
16	Markers & electronic devices (Ball, Disk, Flat of different configurations & sizes)	55200 Nos /Month
17	Glue sticks	3000000 Nos /Month

4. Conditions under Water (P&CP), 1974 Act for discharge of effluent:

Sr. no.	Description	Permitted quantity of discharge (CMD)	Standards to be achieved	Disposal
1.	Trade effluent	132	As per Schedule -I	Out of 132, 115 is recycled in scrubbing and remaining 17 disposed on land for gardening
2.	Domestic effluent	32.2	As per Schedule -I	On land for gardening

5. Conditions under Air (P& CP) Act, 1981 for air emissions:

Sr. no.	Description of stack / source	Number of Stack	Standards to be achieved
1.	Non-IBR Steam generator	1	As per Schedule -II
2.	Regenerative Thermal Oxidizer	1	As per Schedule -II
3.	Thermic Fluid Heater	1	As per Schedule -II
4.	Scrubber and drop box	1	As per Schedule -II
5.	Hot water generator	1	--
6.	D.G. Set	3	As per Schedule -II

6. Conditions about Non Hazardous Wastes:

Sr. no.	Type Of Waste	Quantity & UOM	Treatment	Disposal
1	Metal scrap/waste	1350	NA	Offsite recycling or Sale to authorized vendor
2	Wooden scrap/waste	10500	NA	Offsite recycling or Sale to authorized vendor
3	Plastic & rubber scrap/waste	10500	NA	Offsite recycling or Sale to authorized vendor
4	Paper & cardboard waste	11000	NA	Offsite recycling or Sale to authorized vendor
5	Glass scrap/waste	70	NA	Offsite recycling or Sale to authorized vendor
6	Fabric & cloth pads	2750	NA	Offsite recycling or Sale to authorized vendor

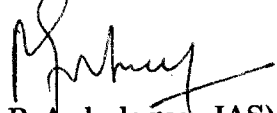
7	Domestic waste	2600	NA	Offsite recycling or Sale to authorized vendor
8	Gardening waste	2000	NA	Offsite recycling or Sale to authorized vendor
9	Rejected products	47000	NA	Offsite recycling or Sale to authorized vendor
10	Natural fibers	500	NA	Offsite recycling or Sale to authorized vendor

7. Conditions under Hazardous Waste (MH & TM) Rules, 2008 for treatment and disposal of hazardous waste:

Sr. No.	Type Of Waste	Category	Quantit	UOM	Disposal
1	Used oil	5.1	340	Lit/M	To authorized reprocessing
2	Cotton rags with waste oil/solvent	5.2	160	Kg/M	CHWTSDF
3	Waste hand gloves	5.2	255	Kg/M	CHWTSDF
4	Discarded containers	33.3	1400	Nos/M	To authorized reprocessing
5	Wastes & residues	21.1	7900	Kg/M	CHWTSDF
6	Spent solvent	20.2	6010	Kg/M	To authorized reprocessing
7	Waste and residue containing glue adhesive and resin	23.1	31510	Kg/M	CHWTSDF
8	ETP sludge	34.3	5000	Kg/M	CHWTSDF
9	Oil and grease skimming residue	34.4	10	Kg/M	CHWTSDF
10	Date expired, discarded and off specification drugs/ medicines	28.4	10000	Kg/M	CHWTSDF
11	Spent organic solvents	28.5	1500	Kg/M	To authorized reprocessing
12	Spent ion exchange resin containing toxic metals	34.2	40	Kg/M	Incineration at CHWTSDF, MEPL

8. The Board reserves the right to review, amend, suspend, revoke etc. this consent and the same shall be binding on the industry.
9. This consent should not be construed as exemption from obtaining necessary NOC/permission from any other Government authorities.
10. Industry shall carry out hazardous waste audit and water audit from renowned institute and submit the report by 30.05.2015. Also shall submit BG of Rs 2 lakhs each to ensure the compliance of the same.

For and on behalf of the
Maharashtra Pollution Control Board


(Dr. P. Anbalagan, IAS)
Member Secretary

Received Consent fee of:

Sr. No.	Amount(Rs.)	DD. No.	Date	Drawn On
1.	1035040	005869	17.09.2014	ICICI Bank

Copy to:

1. Regional Officer -Pune and Sub-Regional Officer-Pune II, MPCB,Pune.They are directed to ensure the compliance of the consent conditions
2. Chief Accounts Officer, MPCB, Mumbai.
3. CC/CAC desk- for record & website updation purposes.

[Handwritten Signature]

Maharashtra Pollution Control Board

Schedule-I

Terms & conditions for compliance of Water Pollution Control:

1) A] As per your application, you have provided the two Effluent Treatment Plant (ETP) with the design capacity of 115CMD and 20 CMD.

B] The Applicant shall operate the effluent treatment plant (ETP) to treat the trade effluent so as to achieve the following standards prescribed by the Board or under EP Act, 1986 and Rules made there under from time to time, whichever is stringent.

Sr No.	Parameters	Standards prescribed by Board (If any)
		Limiting Concentration in mg/l, except for pH
01	pH	6.0-8.5
02	Oil & Grease	10
03	BOD (3 days 27oC)	100
04	Total Dissolved Solids	2100
05	Bioassay Test	90% survival of fish after first 96 hrs in 100% effluent
06	Suspended Solids	100
07	COD	250
08	Chloride	600
09	Sulphate	1000

C) The trade effluent generated from two diff. streams namely scrubbers and processes. The effluent generated from scrubber i.e abt 115 CMD is treated in ETP of 115 CMD which comprises of primary, secondary and tertiary treatment. The treated effluent is 100 % recycled for scrubbing. Effluent generated from process is 17 CMD for which separate ETP of 20 CMD is provided comprising of primary, secondary and tertiary treatment. Treated effluent is used on land for gardening. Land available for gardening = 9591 sq.mtrs

2) A.] As per your consent application, you have provided the sewage treatment system with the design capacity of 45 CMD.

B] The Applicant shall operate the sewage treatment system to treat the sewage so as to achieve the following standards/ prescribed under EP Act, 1986 and Rules made there under from time to time, whichever is stringent.

- (1) Suspended Solids. Not to exceed 100 mg/l.
- (2) BOD 3 days 27oC. Not to exceed 100 mg/l.

C] The treated sewage shall be recycled for flushing, fire fighting, cooling etc

3) The Board reserves its rights to review plans, specifications or other data relating to plant setup for the treatment of waterworks for the purification thereof & the system for the disposal of sewage or trade effluent or in connection with the grant of any consent conditions. The Applicant shall obtain prior consent of the Board to take steps to establish the unit or establish any treatment and disposal system or and extension or addition thereto.

- 4) The industry shall ensure replacement of pollution control system or its parts after expiry of its expected life as defined by manufacturer so as to ensure the compliance of standards and safety of the operation thereof.
- 5) The Applicant shall comply with the provisions of the Water (Prevention & Control of Pollution) Cess Act, 1977 and as amended, by installing water meters, filing water cess returns in Form-I and other provisions as contained in the said act.

Sr. no.	Purpose for water consumed	Water consumption quantity (CMD)
1.	Industrial Cooling, spraying in mine pits or boiler feed	19.5
2.	Domestic purpose	43.5
3.	Processing whereby water gets polluted & pollutants are easily biodegradable	160.00
4.	Processing whereby water gets polluted & pollutants are not easily biodegradable and are toxic	0

- 6) The Applicant shall provide Specific Water Pollution control system as per the conditions of EP Act, 1986 and rule made there under from time to time/ Environmental Clearance / CREP guidelines.

Schedule-II

Terms & conditions for compliance of Air Pollution Control:

1. As per your application, you have provided the Air pollution control (APC) system and also erected following stack (s) and to observe the following fuel pattern-

Sr. No.	Stack Attached To	APC System	Height in Mtrs.	Type of Fuel	Quantity & UoM	S %	SO ₂ Kg/Day
1	Non-IBR Steam generator	Stack	16	Propane	32 Kg/hr	Nil	Nil
2	Regenerative Thermal Oxidizer	Stack	35	Propane	34 lac kcal/hr	Nil	Nil
3	Thermic Fluid Heater	Stack	16	Propane	15 lac kcal/hr	Nil	Nil
4	Scrubber and drop box to Oven NWM	Stack	30	—	—	—	—
5	Hot water generator	Stack	30	—	—	—	—
6	D.G.Sets (1500 KVA)	Stack	30	HSD	350 kg/hr	0.5	168
7	D.G.Sets (1500 KVA)	Stack	30	HSD	350 kg/hr	0.5	168
8	D.G.Sets (50 KVA)	Stack	3	HSD	50 kg/hr	0.5	24

2. The Applicant shall provide Specific Air Pollution control equipments as per the conditions of EP Act, 1986 and rule made there under from time to time / Environmental Clearance / CREP guidelines.

3. The applicant shall operate and maintain above mentioned air pollution control system, so as to achieve the level of pollutants to the following standards:

Particulate matter	Not to exceed	150 mg/Nm ³ .
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4. The Applicant shall obtain necessary prior permission for providing additional control equipment with necessary specifications and operation thereof or alteration or replacement well before its life come to an end or erection of new pollution control equipment.
5. The Board reserves its rights to vary all or any of the condition in the consent, if due to any technological improvement or otherwise such variation (including the change of any control equipment, other in whole or in part is necessary).

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**Schedule-III
Details of Bank Guarantees**

Sr. No.	Consent (C to E/O/R)	Amt of BG Imposed	Submission Period	Purpose of BG	Compliance Period	Validity Date
1	C to R	Rs 5 Lakhs*	Submitted	O & M of PCS	31.10.2016	28.02.2017
2	C to R	Rs 2 Lakhs	Within 15 days from the date of issue of consent	Industry shall carry out hazardous waste audit	30.05.2015	30.09.2015
3	C to R	Rs 2 Lakhs	Within 15 days from the date of issue of consent	Industry shall carry out water audit	30.05.2015	30.09.2015

*The BG of Rs 5 lakhs towards O & M of PCS shall be extended fro a period upto 28.02.2017.

Schedule-IV

General Conditions:

- 1) The applicant shall provide facility for collection of environmental samples and samples of trade and sewage effluents, air emissions and hazardous waste to the Board staff at the terminal or designated points and shall pay to the Board for the services rendered in this behalf.
- 2) Industry should monitor effluent quality, stack emissions and ambient air quality monthly/quarterly.
- 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) 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.
- 5) The applicant shall provide an alternate electric power source sufficient to operate all pollution control facilities installed 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 and conditions of this consent.
- 6) 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.
- 7) The industry shall recycle/reprocess/reuse/recover Hazardous Waste as per the provision contain in the HW(MH&TM) Rules 2008, which can be recycled/processed/reused/recovered and only waste which has to be incinerated shall go to incineration and waste which can be used for land filling and cannot be recycled/reprocessed etc should go for that purpose, in order to reduce load on incineration and landfill site/environment.
- 8) The industry should comply with the Hazardous Waste (M,H & TM) Rules, 2008 and submit the Annual Returns as per Rule 5(6) & 22(2) of Hazardous Waste (M,H & TM) Rules, 2008 for the preceding year April to March in Form-IV by 30th June of every year.
- 9) An inspection book shall be opened and made available to the Board's officers during their visit to the applicant.
- 10) **The applicant shall make an application for renewal of the consent at least 60 days before the date of the expiry of the consent.**
- 11) Industry shall strictly comply with the Water (P&CP) Act, 1974, Air (P&CP) Act, 1981 and Environmental Protection Act, 1986 and industry specific standard under EP Rules 1986 which are available on MPCB website(www.mpcb.gov.in).
- 12) The industry shall constitute an Environmental cell with qualified staff/personnel/agency to see the day to day compliance of consent condition towards Environment Protection.
- 13) Separate drainage system shall be provided for collection of trade and sewage effluents. Terminal manholes shall be provided at the end of the collection system with arrangement for measuring the flow. No effluent shall be admitted in the pipes/sewers downstream of the terminal manholes. No effluent shall find its way other than in designed and provided collection system.
- 14) Neither storm water nor discharge from other premises shall be allowed to mix with the effluents from the factory.
- 15) 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.

16) 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) 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) Installation of DG Set must be strictly in compliance with recommendations of DG Set manufacturer.
- e) 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.
- f) D.G. Set shall be operated only in case of power failure.
- g) The applicant should not cause any nuisance in the surrounding area due to operation of D.G. Set.
- h) The applicant shall comply with the notification of MoEF dated 17.05.2002 regarding noise limit for generator sets run with diesel

17) The industry should not cause any nuisance in surrounding area.

18) 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.

19) The applicant shall maintain good housekeeping.

20) The applicant shall bring minimum 33% of the available open land under green coverage/ plantation. The applicant shall submit a statement on available open plot area, number of trees surviving as on 31st March of the year and number of trees planted by September end, with the Environment Statement.

21) 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 of solid waste.

22) The applicant shall not change or alter the 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. The industry will not carry out any activity, for which this consent has not been granted/without prior consent of the Board.

23) 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.

24) The industry shall submit official e-mail address and any change will be duly informed to the MPCB.

25) The industry shall achieve the National Ambient Air Quality standards prescribed vide Government of India, Notification dtd. 16.11.2009 as amended.

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