

# MAHARASHTRA POLLUTION CONTROL BOARD

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Mumbai - 400 022

Red/L.S.I

Consent No: BO/PAMS/E/Amend/EIC NO.RD-2333-12/CAC-540

Date: 24/07/2012

Consent to Establish under Section 25 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 & Transboundry Movement) Rules 2008

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

CONSENT is hereby granted to .....

M/s. Lenzing Modi Fibers India Private Ltd.  
Plot No. M-1 & M-2, MIDC Addl. Patalganga,  
Industrial Area, Village Sarsai, District: Raigad

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 Establish is granted for the period up to : Commissioning of the unit or 5 years whichever is earlier.
2. The Consent is valid for the manufacture of -

Sr. No.	Product Name	Maximum Quantity	UOM
01	Viscose Staple	6667.00	MT/M
02	Anhydrous Sodium Sulphate	4917.00	MT/M
03	Sulphuric Acid (Captive Consumption) (from Waste gas & make up Sulpher)	4867.00	MT/M

### 3. CONDITIONS UNDER WATER ACT:

- (i) The daily quantity of trade effluent from the factory shall not exceed 13200 M<sup>3</sup>
- (ii) The daily quantity of sewage effluent from the factory shall not exceed 150 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 :-

01	pH	Between	5.5 to 9.0	
02	Suspended Solids	Not to exceed	100	mg/l
03	BOD 3 days 27° C	Not to exceed	100	mg/l
04	COD	Not to exceed	250	mg/l
05	Oil & Grease	Not to exceed	10	mg/l
06	Zinc	Not to exceed	5	mg/l

07	Iron	Not to exceed	5	mg/l
08	Mercury	Not to exceed	0.1	mg/l
09	Lead	Not to exceed	2.0	mg/l
10	Cadmium	Not to exceed	2.0	mg/l
11	Hexavalent Chromium as Cr <sup>+6</sup>	Not to exceed	1.0	mg/l
12	Total Chromium as Cr	Not to exceed	2.0	mg/l
13	Sulphides (as S)	Not to exceed	5.0	mg/l
14	Total Ammonical Nitrogen	Not to exceed	50.0	mg/l
15	Bio-assay test- 90 % survival of fish after 96 hrs in 100 % treated effluent			

- (iv) **Trade Effluent Disposal:** The treated effluent shall be reused /recycled to maximum extent and remaining shall be disposed through closed pipe line in to saline Zone of River Patalganga as per recommendation by NIO.
- (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 should be used on land for gardening / plantation only.

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

Sr. No.	Type Of Waste	Quantity	UOM	Disposal
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- (viii) **Other Conditions:** 1) 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	...	150.0	CMD
(ii) Industrial Processing	...	7610.0	CMD
(iii) Industrial Cooling	...	7890.0	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.

**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. Adequate air pollution system of sufficient capacity shall be provided to the limit the emissions and operated properly.

II. There shall not be any secondary (fugitive) emissions.

**b. Standards for Emissions of Air Pollutants:**

(i) SPM/TPM	Not to exceed	150	mg/Nm <sup>3</sup>
(ii) SO <sub>2</sub> (Process)	Not to exceed	4	Kg/Tonnes of H <sub>2</sub> SO <sub>4</sub> Prdocued
(iii) SO <sub>2</sub> (Boiler)	Not to exceed	430	Kg/day
(iv) Nox/SO <sub>2</sub>	Not to exceed	50	ppm
(v) Acid Mist/HCL	Not to exceed	35	mg/Nm <sup>3</sup>
(vi) Chlorine	Not to exceed	3	ppm
(vii) CS <sub>2</sub>	Not to exceed	21	Kg/MT of fibre produced
(viii) H <sub>2</sub> S	Not to exceed	6.5	Kg/MT of fibre produced

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

Sr. No.	Type Of Fuel	Quantity	UOM
01	Coal	430.0	MT/D

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

Sr. No.	Chimney Attached To	Height in Mtrs.
01	Boiler- I & II	82.0
02	Sulphuric Acid Plant	50.0
03	Main Plant	50.0

(iv) 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.

(v) 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.

(vi) **Other Conditions:**

- 1) The industry shall install three AAQM stations for CS<sub>2</sub> & H<sub>2</sub>S monitoring in consultation with MPCB to ensure air quality norms as CS<sub>2</sub>-100 µg/Nm<sup>3</sup> & H<sub>2</sub>S -150 µg/nm<sup>3</sup> on 24 hrs average basis.
- 2) The industry shall monitor AAQM and stack emissions regularly and shall submit its reports to MPCB regularly.
- 3) Continuous Monitoring system shall be installed for monitoring Suphur Dioxide and Suspended Particulate Matter and results submitted to the Board every fortnight. The results for continuous monitoring done on daily basis shall be submitted after every 15 days to Regional Officer, Raigad with a copy to Member Secretary Mumbai. In the event of difficulty in providing the continuous monitoring system monitoring shall be done daily and results be submitted as stated above.
- 4) The industry should not cause any nuisance in surrounding area.
- 5) There shall not be any fugitive emissions due to process emissions of CS<sub>2</sub>, H<sub>2</sub>S.

- 6) The factory authorities shall install a separate meter showing the consumption of energy for operation of domestic and industrial effluent treatment plant. The quarterly returns of the energy consumption shall be submitted to Board office under intimation to respective Regional and Sub Regional officer on each 10<sup>th</sup> January, April, July and October.
- 7) The firm shall provide continuous flow meter for the measurement of the flow of the effluent.

**6. CONDITIONS UNDER HAZARDOUS WASTE (MANAGEMENT, HANDLING & TRANSBOUNDRY MOVEMENT) RULES, 2008:**

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

Sr. No.	Type Of Waste	Quantity	UOM	Disposal
01	34.3 Sludge from primary ETP	3.0	MT/D	CHWTSDF, Taloja
02	Sludge from secondary ETP	5.75	MT/D	CHWTSDF, Taloja
03	Viscose Reject	3.0	MT/D	CHWTSDF, Taloja
04	5.1/5.2 Used / Spent Oil	50.0	MT/D	Authorised reprocessor/ CHWTSDF Taloja

- (ii) Treatment: - NIL

7. Whenever due to any accident or gas leakage 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 Collector, Directorate of Industry, Safety and Health, Police Station, Fire Brigade, Directorate of Health Services, Department of Explosives, Board and Local Body and the production process should be stopped by taking all necessary safety measures. The industry shall also monitor the emission 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 organization as require under the law

**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 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.
  - 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.
09. The consent should not be construed as any exemption from obtaining necessary NOC from other Govt. agencies as may be deemed fit necessary.
  10. Industry shall install Reverse Osmosis system for the treatment of industrial effluent & shall obtain its technical approval from MPCB before its operation.
  11. Industry shall adopt Oxidation methods like Ozonisation / UV rays treatment for the treatment of cooling tower effluent and shall obtain its technical approval from MCPB before its operation.
  12. **The applicant shall not take any effective steps towards implementation of the project before obtaining Environmental Clearance as per EIA notification 2006 and amendments thereto. If any non-compliance of the conditions of consent to Establish observed, the Board will initiate appropriate legal action including, revocation of consent and further action.**

13. This consent has granted an overriding effect to earlier consent vide No BO/PCI-I/RO Raigad/28/E/CC-108, dated 01/10/2005 valid up to commissioning of the unit & amendment made vide No MPCB/ZO(PAMS)/Amd/Modi/TB/B-955 dated 11/02/2011 and amendment made vide No BO/PAMS/E/Amend/EIC NO.RD-2333-12/CAC-483 dated 28/06/2012.
14. The applicant shall obtain consent to operate before starting actual commercial Production.
15. This consent is issued as per the decision taken in the meeting of the Consent Appraisal Committee of the Board held on 29-05-2012.
16. The Capital investment of the industry is ₹ 827.00 Cr.

  
(Milind Mhaiskar)  
Member Secretary

To,  
M/s. Lenzing Modi Fibers India Private Ltd.  
Plot No. M-1 & M-2, MIDC Addl. Patalganga,  
Industrial Area, Village-Sarsai, District: Raigad

Copy to :

1) RO, Raigad / SRO, Raigad-I.

-- They are directed to ensure the compliance of consent conditions.

2) CAO/Cess Branch/Master file.

Received Consent fee of-

Sr. No.	Amount(Rs.)	DD. No.	Date	Drawn On
01	1744000/-	538136	07/04/2012	Standard Chartered Bank