

**M. S. RAIGAD POLLUTION CONTROL BOARD**

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Consent No. BO/P/10/BO/10575 Date: 18/11/2014  
 BO/P/E/CAC-10575 Date: 18/11/2014

**To,**  
**M/s. Lenzing Modi Fibers India Pvt. Ltd.**  
**Plots M-1 & M-2, Additional Pimpri-Chinchwad MIDC,**  
**Vill Sarsai, tehsil Panvel, Dist. Raigad.**

**Subject: Amendment in Consent to Establish under RED category.**  
**Ref : 1. Earlier Consent granted vide no. BO/PAMS/E/Amend/EIC No. RD-2333**  
**BO/CAC-549, dtd 24.07.2012**  
**2. Minutes of CAC meeting held on 15.04.2014.**

**Your application: CE1306000405**  
**Dated: 23.05.2013**

**For: Amendment in Consent to Establish under RED category.**  
**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 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 to Establish is granted for a period up to commissioning of Unit or 23.07.2017 whichever is earlier.
2. The proposed capital investment of the industry is Rs.120.0Cr. and the total capital investment of the unit is Rs. 922/- Crs (As per Undertaking submitted by industry)
3. The Consent is valid for the manufacture of -

Sr. No.	Product / By-Product Name	Maximum Quantity
1	Viscose Staple	6667 MT/M
2	Anhydrous Sodium Sulphate	4917 MT/M
3	Sulphuric Acid (Captive Consumption) (From waste gas & make up Sulpher)	4867 MT/M
4	Captive Power Plant	16 MW

**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	13200	As per Schedule -I	Recycle / saline
2.	Domestic effluent	158	As per Schedule -I	land

*(Handwritten signature)*

(P&CP)A		
Particulars of stack /	Number of stacks	to be
II	1	Schedule-II
Acid Plant	1	Schedule-II
Plant	1	Schedule-II
DC set (1000 KVA) 3 nos.	1 each	per Schedule-II

6. Conditions about Non Hazardous Wastes.

Sr. no.	Type Of Waste	Quantity & UoM	Treatment	Disposal
1	Fly Ash	3050 MT/M	-	Sold to Brick Manufacturers

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

Sr. No.	Type Of Waste	Category	Quantity	UOM	Treatment	Disposal
1	Used/Spent Oil	5.1	50	MT/D	-	Recycle/Reprocess/Recover/reuse/
2	Chemical sludge from waste water	34.3	8.75	MT/D		CHWTSDF
3	Viscose Rejects		3	MT/D		CHWTSDF

8. The Board reserves the right to review, amend, suspend, revoke etc. this consent and the same shall be binding on the industry.
9. The applicant shall submit the affidavit in Board's prescribed format within 15 days regarding the compliance of conditions of Environmental Clearance & CRZ clearance granted vide no. J-11011/202/2011- 1AII (I) dtd. 30.01.2013 & CRZ-2012/CR-121/TC-2 dtd. 10<sup>th</sup> January 2013 respectively and Consent to Establish and comply the same.
10. This consent should not be construed as exemption from obtaining necessary NOC/permission from any other Government authorities.
11. This consent is issued based on the submission made by MIDC before Hon'ble NGT, & the order passed by Hon'ble NGT dtd 28.11.2013. It is stated by MIDC that as per RRZ Notification 2009, the Patalganga River basin, beyond the Chwane Wier, is classified as SWZ (Saline Water Zone) by the Govt. of Maharashtra & therefore, the restrictions envisaged in the RRZ, where river stretches have been classified as A-1, A-2, A-3, A-4 are not applicable to the present location of industry. MIDC has also submitted as far as Patalganga River is concerned, "the RRZ outer limit as per plan of Govt. of Maharashtra ends at Chwane Wier & the site allotted to the industry is further downstream of the Chwane Weir" and the decision of Hon'ble NGT on the basis of submission of MIDC "We do not find any substantial reason to dislodge the submissions made by MIDC regarding location of the industry is against & therefore, the claim of the Applicant that the location of the industry is against the RRZ Notification is unacceptable & will have to be rejected".
12. The applicant shall comply with the conditions of Environmental Clearance & CRZ clearance granted vide no. J-11011/202/2011- 1AII (I) dtd. 30.01.2013 & CRZ-2012/CR-121/TC-2 dtd. 10<sup>th</sup> January 2013 respectively.

Since the location of the plant has been observed to be in violation of the Maharashtra Environmental Clearance Act, 1986, the Maharashtra Pollution Control Board has granted Consent to Establish emissions from the plant accordingly imposed the standards.

This Consent is granted with overriding effect to the earlier Consent to Establish granted by the Board vide no. BO/PAMS/E/Amend/EIC No. RD-2333-12/CAC-540. dtd 24.07.2012

For and on behalf of the  
Maharashtra Pollution Control Board

(Rajiv Kumar Mital, IAS)  
Member Secretary

Received Consent fee of -

Sr. No.	Amount(Rs.)	DD. No.	Date	Bank Name
1.	17,44,000	538136	07/04/2012	Standard Chartered Bank.
	2,40,000	0644445	22/05/2013	Standard Chartered Bank.

Copy to:

1. Regional Officer -Raigad and Sub-Regional Officer- Raigad-I. MPCB. 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.

Conditions for compliance of

- As per your application, you have proposed to install the Effluent Treatment Plant (ETP) to treat the effluent 132000 m<sup>3</sup>/day from the secondary treatment ETP.
- 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)
	<b>I. Compulsory Parameters</b>	Effluent concentration in mg/l, except for pH
01	pH	7.5-8.5
02	Oil & Grease	10
03	BOD (3 days 27°C)	20
04	Total Ammonium Nitrogen	20.0
05	Bioassay Test	90% survival of fish after first 96 hrs in 100% effluent
06	Mercury	0.1
07	Zinc	5.0
08	Chromium (Hexavalent)	1.0
09	Lead	2.0
10	Iron	5.0
11	Cadmium	2.0
12	Total Chromium as Cr	2.0
13	Sulphides (as S)	5.0
14	Suspended Solids	100
15	COD	250

C) The treated effluent shall be reused to maximum extent & remaining shall be disposed through closed pipeline in to saline zone of river patalganga as per recommendation of National Institute of Oceanography (NIO). The proposed effluent disposal point location which is about 6.50 km. downstream from the project site. Only a 0.5 Km of the pipeline will be in the CRZ area as recommended by NIO & mentioned in CRZ clearance

- 2) A.] As per your consent application, you have proposed to install the sewage treatment system.
- 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 27°C. Not to exceed 100 mg/l.
- C] The treated sewage shall be treated in STP & zero discharge principle adopted as per CRZ clearance.
- 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.

1.	Processing where water gets polluted & pollutants are easily biodegradable	7610
2.	Processing where water gets polluted & pollutants are not easily biodegradable and are toxic	

- 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.
- 7) Spacing of diffuser ports may be increased to 20 mtrs. with at least 6 ports in the diffuser as per CRZ Clearance.
- 8) The intake & outfall shall be buried pipelines & no open channel/cutting is permissible in CRZ area. The pipeline shall be buried 2 m below the ground level/water body.
- 9) The outfall is 6.5 km from the plant. The effluent shall be discharged through multiple ports at the outfall for proper dispersion.
- 10)The outlet quality as well as the River water near the outfall shall be monitored regularly. If the impact is found significant in future, necessary remediation measures shall be taken. A report in this regard shall be submitted to Regional Office, MoEF & MPCB along with six month monitoring report.
- 11)There shall be no disposal of solid & liquid waste in to the Coastal areas.
- 12)There shall be no ground water drawal within CRZ area.
- 13)Total fresh water requirement from MIDC water supply shall not exceed 70 m3/ton of fibre (i.e. 15,600 m3/day) and prior permission shall be obtained from the concerned Authority. No ground water shall be used.
- 14)Total industrial wastewater generation shall not exceed 13,200 m3/day. As proposed, effluent shall be treated in the effluent treatment plant. Treated effluent shall be discharged into conveyance system for marine disposal after conforming to the standards prescribed for marine discharge norms and obtaining permission from the MPCB. Treated effluent shall be passed through guard pond. Online pH meter, TOC analyzer and flowmeter shall be installed. No process effluent shall be discharged in and around the project site. Sewage shall be treated in STP. The water quality monitoring report for treated effluent shall be submitted to the MPCB.
- 15)Process effluent/any wastewater shall not be allowed to mix with storm water. Storm water drain shall be passed through guard pond.

**Terms & conditions for compliance:**  
 As per your application, you shall install all the Air pollution control (APC) system and also provide following stack (s) and to observe the following fuel pattern-

Sr. No.	Stack Attached To	APC System	Height (m)	Type of Fuel	Quantity & UoM	S %	SO <sub>2</sub> (ppm)
1	Boiler-I	Bag Filter Burner & lime injection system (ESP)	75	Indian coal	430 TPD	0.5%	1300
				OR	OR	OR	OR
				Imported coal	264 TPD	0.5%	2640
				OR	OR	OR	OR
2	Boiler-II	Low Nox Burner (for gas/HSD fired boiler)	75	Natural Gas	18700nm <sup>3</sup>	---	---
				OR	OR	OR	OR
				HSD	160 TPD	1%	3200
3	D.G. Set (3 x 1000 KVA)	---	4*	Diesel	240 Lit/Hr	1%	115.2
4	Sulphuric Acid Plant	Scrubber	150 Common stack	---	---	---	---
5	Main Plant			---	---	---	---

\*Above roof of building.

- 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. (Concern section shall mention specific control equipments)
- 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 <sup>3</sup> .
NO <sub>x</sub> /SO <sub>2</sub>	Not to exceed	50 ppm
H <sub>2</sub> S	Not to exceed	6.5 Kg/Mt of the fiber produced
CS <sub>2</sub>	Not to exceed	21 Kg/Mt of the fiber produced
Chlorine	Not to exceed	3 ppm
Acid mist/Hcl	Not to exceed	35 mg//NM <sup>3</sup>
SO <sub>2</sub> Process	Not to exceed	1 Kg/Ton of H <sub>2</sub> So <sub>4</sub> produced

- The Applicant shall obtain necessary prior permission for providing additional control equipment with necessary specifications and operation thereof or alteration or replacemenalteration well before its life come to an end or erection of new pollution control equipment.
- 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).

Alongwith stack height of 40m, the unit shall have online real meter for emission of acid  
Ton of acid

(SO<sub>2</sub>, NO<sub>x</sub>, CS<sub>2</sub>, H<sub>2</sub>S, CO, HCl) shall conform to the norms prescribed by CPCB & MPCB. At no time the emission levels shall go beyond the prescribed standards. In the event of failure of any pollution control system adopted by the unit, the respective unit shall not be restarted until the control measures are rectified to achieve the desired efficiency. Continuous emission monitoring system (CEMS) shall be installed to measure SO<sub>2</sub>, NO<sub>x</sub> & Particulate from the CPP stack & SO<sub>2</sub>, CS<sub>2</sub> & H<sub>2</sub>S from process plant stacks.

8. ESP and adequate stack height shall be provided to coal fired boiler (75 TPH) and adequate stack height should be provided to natural gas / oil fired boiler to control the air emissions within the limit stipulated by CPCB and MPCB. Low NO<sub>x</sub> burner shall be provided in Captive Co-generation Power Plant to reduce the NO<sub>x</sub> emissions. In the event of failure of any pollution control system adopted by the unit, the respective unit shall not be restarted until the control measures are rectified to achieve the desired efficiency.
9. Industry as proposed shall not manufacture CS<sub>2</sub> at project site.
10. In plant, control measures for checking fugitive emissions from all the vulnerable sources shall be provided. Fugitive emissions shall be controlled by providing closed storage, closed handling & conveyance of chemicals/materials, multi cyclone separator and water sprinkling system. Dust suppression system including water sprinkling system shall be provided at loading and unloading areas to control dust emissions. Fugitive emissions in the work zone environment, product, raw materials storage area etc. shall be regularly monitored and records shall be maintained. The emissions shall conform to the limits imposed by Maharashtra Pollution Control Board (MPCB).
11. The gaseous emissions from DG set shall be dispersed through adequate stack height as per CPCB guidelines. Acoustic enclosure shall be provided to the DG sets to mitigate the noise pollution.
12. CS<sub>2</sub> storage shall not be more than 15 days.

Guarantees

Sl. No.	Consent (C to E/O/R)	A-1	Purpose of BG	Compliance Period
1	C to E	10/-	For compliance of EC conditions & C to E conditions.	COB of five Years FIVE YEARS from date of issue of consent

Maharashtra Pollution Control Board



Schedule-IV

General Conditions:

- The applicant shall ensure proper collection of environmental trade and effluents and hazardous waste and shall provide terminal manholes and shall pay to the Board for the same on behalf of the applicant.
- 2) If the MIMC pipeline is broken/ overflowing chamber, in such a case, the applicant shall not discharge the effluent into MIDC drain, it shall be collected in a tanker, if applicable.
  - 3) Industry shall monitor effluent quality, stack emissions and ambient air quality monthly/quarterly.
  - 4) 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.
  - 5) Whenever due to any accident or other unforeseen act or event, 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.
  - 6) 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.
  - 7) 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.
  - 8) 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
  - 9) /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.
  - 10) 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 Hazarsous Waste (M,H & TM) Rules, 2008 for the preceding year April to March in Form-IV by 30<sup>th</sup> June of every year.
  - 11) An inspection book shall be opened and made available to the Board's officers during their visit to the applicant.
  - 12) **The applicant shall obtain Consent to Operate from Maharashtra Pollution Control Board before actual commencement of the Unit/ Activity.**
  - 13) 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](http://www.mpcb.gov.in)).
  - 14) 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.
  - 15) 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.
  - 16) Neither storm water nor discharge from other premises shall be allowed to mix with the effluents from the factory.

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... from the D.G. Set shall ... an acoustic enclosure ...  
...reating the room acoustically
- b) Industry should provide acoustic enclosure for control of noise. The acoustic enclosure/ acoustic treatment of the room shall provide for minimum 25 dB (A) insertion loss for meeting the ambient noise standards, whichever is on higher side. A suitable exhaust muffler with insertion loss of 25 dB (A) also be provided. The measurement of insertion loss will be done at different points at 3 meters from acoustic enclosure/room and their 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
- 19) The industry should not cause any nuisance in surrounding area.
  - 20) 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.
  - 21) The applicant shall maintain good housekeeping.
  - 22) 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 31<sup>st</sup> March of the year and number of trees planted by September end, with the Environment Statement.
  - 23) 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.
  - 24) 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.
  - 25) 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.
  - 26) The industry shall submit quarterly statement in respect of industries' obligation towards consent and pollution control compliance's duly supported with documentary evidences (format can be downloaded from MPCB official site).
  - 27) The industry shall submit official e-mail address and any change will be duly informed to the MPCB.
  - 28) The industry shall achieve the National Ambient Air Quality standards prescribed vide Government of India, Notification dt. 16.11.2009 as amended.
  - 29) Industry shall provide dry fly ash handling & collection system and utilize the fly ash as per the fly ash notification of the Govt. of India
  - 30) Transportation of coal & fly ash shall be by closed system, Conveyor system wherever possible.

- 32) The factory shall monitor AAQM & stack emissions regularly and submit its report to the Regional Officer, Raigad.
- 33) The factory shall monitor AAQM & stack emissions regularly and submit its report to the Regional Officer, Raigad.
- 34) Continuous monitoring system shall be installed for monitoring Sulphur Dioxide and Suspended Particulate matter and results submitted to the Board every fourth night. 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.
- 35) The industry should not cause any nuisance in surrounding area.
- 36) There shall not be any fugitive emissions from process emissions of CS<sub>2</sub>, H<sub>2</sub>S.
- 37) The factory authorities shall install a separate meter showing the consumption of energy for operation of domestic & industrial effluent treatment plant. The quarterly returns of the energy consumption shall be submitted to Board office under intimation to respective Regional & Sub-Regional Officer on each 10<sup>th</sup> January, April July & October.
- 38) The firm shall provide continuous flow meter for the measurement of the flow of the effluent.
- 39) As per condition of CRZ Clearance dtd 06.03.2014 as the pipeline for disposal of treated effluent is likely to disturb 15 nos. of mangrove plants. Therefore 5 times mangrove plantation shall be carried out. Permission shall be obtained from the Hon'ble High Court of Bombay as applicable for cutting of mangrove plants.
- 40) The project proponent should set up necessary facility for on site testing of wastes to decide the requirement of treatment if any, before disposal.

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