

MAHARASHTRA POLLUTION CONTROL BOARD

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Red/L.S.I

Date: 29/05/2013

Consent No: BO/JD PAMS/ RO Kalyan/EIC NO KN-6404-13/Amnd./CAC- 4615

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 & 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. Century Rayon
P.B.No.22, Murbad Road,
Shahad, Ulhasnagar,
Dist.Thane

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: 31.12.2014.
2. The Consent is valid for the manufacture of -

Sr. No.	Product Name	Maximum Quantity
1	Rayon Viscous Filament yarn, Tyre cord, continuous yarn(combined production) By-Product Anhydrous Sodium Sulphate	25000 MT/A. 16,272 MT/A.
2	Carbon di sulphide By-Product Sodium Sulphide	20000 MT/A. 1870 MT/A.
3	SULPHURIC ACID	76000 MT/A.
4	Captive power generation(3x6.3 MW DG Set)	18 MW
5	Steam(Excess from captive power plant)	180 MT

3. CONDITIONS UNDER WATER ACT:

- (i) The daily quantity of trade effluent from the factory shall not exceed 13000 M³.
- (ii) The daily quantity of sewage effluent from the factory shall not exceed 3300 M³.

(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:

1	pH	Between	5.5 to 9.0
2	Suspended Solids	Not to exceed	100 mg/l.
3	BOD 3 days 27 ° C	Not to exceed	100 mg/l
4	COD	Not to exceed	250 mg/l.
5	Oil & Grease	Not to exceed	10 mg/l
6	Zinc (as Zn)	Not to exceed	5.0 mg/l

(iv) **Trade Effluent Disposal:** The treated trade effluent shall be reused/recycled to the maximum extent and excess, if any, shall only be connected to adequate safe and covered discharge line up to Saline Zone of Ulhas creek.

(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 connected to sewerage system provided by local body.

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

Sr. No.	Type Of Waste	Quantity	Treatment	Disposal
1	Dry viscous, Trash, sweeping, waste cellulose from rayon & TC plant, civil debris, de-ashed charcoal, cinder ash, fly ash	7500 MT/A.	----	Separate area is emarked for disposal of solid waste

(viii) **Other Conditions:** 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 purpose	...	500 + 3500	CMD
(ii) Water gets Polluted & Pollutants are Biodegradable	...	13,500	CMD
(iii) Water gets Polluted, Pollutants are not Biodegradable & Toxic	...	0.00	CMD
(iv) Industrial Cooling, spraying in mine pits or boiler feed	...	1500.00	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:**

- 1] The sulphuric acid plant shall be provided with brink eliminator.

- 2] Scrubber of adequate capacity shall be provided to a) Rayon Plant, b) CS2 Plant, c) Spinning tyre cord plant, d) DCDA process, etc. to limit the process emissions. The sulphuric acid plant shall be provided with tail and gas scrubbers.
- 3] Electrostatic Precipitator (ESP) shall be provided to Boiler no. 7 & 8 to comply with the standards for particulate matter less than 100 mg/Nm³.

B) 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. The industry shall take adequate measures for control of noise levels from its own sources within the premises in respect of noise to less than 55 dB(A) during day time and 45 dB(A) during the night time. Day time is reckoned between 6 a.m. to 10 p.m and night time is reckoned between 10 p.m to 6 a.m.
- d. 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.
- e. Installation of DG Set must be strictly in compliance with recommendations of DG Set manufacturer.
- f. 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.
- g. D.G. Set shall be operated only in case of power failure
- h. The applicant should not cause any nuisance in the surrounding area due to operation of D.G. Set

C) Standards for Emissions of Air Pollutants:

1	SEM/TPM	Not to exceed	150	mg/Nm ³
2	SO ₂	Not to exceed	3.5	Kg/ton of concentrated H ₂ SO ₄ (100%) produced
3	Chlorine	Not to exceed	3	ppm
4	H ₂ S	Not to exceed	70	mg/Nm ³
5	CS ₂	Not to exceed	300	mg/Nm ³
6	Acid Mist	Not to exceed	50	mg/Nm ³
7	SO ₂ (Process)	Not to exceed	6.9	MT/Day
8	NO _x from DG set	Not to exceed	100	ppm

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

Sr. No.	Type Of Fuel	Quantity
1	Coal	266 MT/day.
2	Furnace Oil	80 MT/day.

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

Sr. No.	Chimney attached to	Volume Nm ³ /hr.	Height in meters
1	Rayon Plant near time office	7,50,000	45.72
2	Rayon Plant old chimney	7,50,000	61
3	Rayon Plant additional chimney	2,50,000	61
4	Rayon Plant spin bath chimney	1,15,000	27
5	Sulphuric acid	12,000	41.2
6	Sulphuric acid	12,000	41.2
7	CS ₂ Plant	16 m/s	32
8	Scrubber to CS ₂ Plant	23,000	16.38
9	Tyre cord plant-I, II, III	80,000 (each)	25/13.5/13.5
10	Boiler No. 5 (stand-by)	75,000	30.7
11	Boiler No. 6A & 6B (stand-by)	39,000 (each)	30.7 (each)
12	Boiler No. 7 (A, F, B, C)	1,56,150	57.5
13	Boiler No. 8 (coal fired)	1,48,000	50
14	DG Set (3 x 6.3 MW) (S-16)	3,25,155	70

- (iii) 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.
- (iv) 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 should not cause any nuisance in surrounding area.
 - 2) The industry should monitor stack emissions and ambient air quality regularly.
 - 3) The industry shall install continuous online monitoring for CS₂ stack and further display of data on web site and operate the same regularly.
 - 4) The applicant shall operate three continuous automatic ambient air and micrometrological monitoring station at location indicated by State Board to be set up and operate at its own cost measure SO₂, NO_x and particulate matter. These CAAQMS shall also have necessary provision of networking to the Air Quality Monitoring network of MPCB.
 - 5) The industry shall install three air quality monitoring stations for CS₂ and H₂S measurements in consultation with State Pollution Control Board (SPCB) to ensure attainment of WHO recommended ambient air quality norms (CS₂ = 100 ug/m³ and H₂S = 150 ug/m³, 24 = hr. average).
 - 6) The industry shall operate & maintain the CS₂ & H₂S recovery system regularly so that discharge of CS₂ & H₂S into environment shall not be more than 20-22 kg/T & 2.5 kg/T of CS₂ production as mentioned in "No increase in Pollution Load" report submitted by industry dtd. 07/06/2010.

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

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

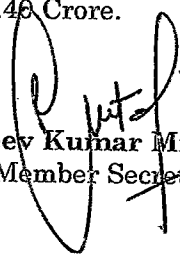
Sr. No.	Item No. as per Schedule-I & II	Type of Waste	Quantity	Disposal
1	34.3	Chemicals sludge from waste water treatment	1500	CHWTSDF
2	D1	Sulphur waste	250	
3	17.2	Spent Catalyst (V ₂ O ₅)	12	
4	5.1	Used Oil	75	Sent to authorized recycler
5	5.2	Waste Oil	100	

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. 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.
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 30th day of September every year, 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.

- ix. As 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.
9. The consent should not be construed as any exemption from obtaining necessary NOC from other Govt. agencies as may deemed fit necessary.
 10. This consent is issued as per the "No increase in Pollution Load Certificate" issued by Dr. B. A. T. U., Lonere dtd. 24/07/2012.
 11. This consent is issued by overriding earlier consent no. BO/JD PAMS/ RO Kalyan/EIC NO KN/Amnd./CAC-738 dtd. 05/01/2013. Industry has proposed product mix change within consented limits; hence the consent is issued as per MoEF circular dt. 14.12.2006.
 12. Applicant shall submit the locational clearance as per MMR Policy by 30.06.2013. Existing Bank Guarantee of Rs. 5 Lakh is hereby forfeited and industry shall submit fresh Bank Guarantee of Rs. 5 Lakh for compliance of this condition.
 13. This consent is issued pursuant to the decision of CAC meeting held on 22.03.2013 of the Board.
 14. The Capital investment of the industry is Rs. 118.46 Crore.


 (Rajeev Kumar Mital IAS)
 Member Secretary

To,
 M/s. Century Rayon
 P.B. No.22, Murbad Road,
 Shahad, Ulhasnagar,
 Dist. Thane

Copy to: 1] Regional Officer, MPCB Kalyan, - They are directed forfeit the existing BG of Rs. 5 Lakh and obtain fresh Bg of Rs. 5 lakh and report the compliance.

2] Sub Regional Officer, MPCB, Kalyan-II:

3] Chief Accounts Officer, MPCB, Mumbai 4] Cess Branch, MPCB. 5] Master file.

Received Consent fee of -

Sr. No.	Amount (Rs.)	DD. No.	Date	Drawn On
1	100	984359	08/08/2012	SBI Bank
2	200000	984361	08/08/2012	SBI Bank