

MAHARASHTRA POLLUTION CONTROL BOARD

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Consent order No :- Formate 1.0/ BO/CAC-Cell/EIC No KN-6673-14/2nd CAC/ 6431
Date- 30/05/2015

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

Subject: Renewal of consent to Operate under RED category.

Ref : 1. Earlier Consent granted vide no. BO/JD PAMS/ROKalyan/EIC NO-KN-6404-13/Amnd/CAC-4615 dtd 29.05.2013

2. Your application approved in CAC meeting held on 14.05.2015.

Your application: CR1412000334

Dated: 10.11.2014

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:

- The consent is granted for a period from 01.01.2015 to 30.09.2019.
- The actual capital investment of the industry is Rs.199.79 Crs. (As per C.A. Certificate submitted by industry)
- The Consent is valid for the manufacture of -

Sr. No.	Product Name	Maximum Quantity
1	Rayon Viscose Filament yarn, Tyre cord, continuous spun yarn (combined production)	25000 MT/A
2	Carbon disulphide	20000 MT/A
3	Sulphuric acid	76000 MT/A
4	Captive power generation (3 x 6.3 MW DG set)	18 MW
5	Steam (Excess from captive power plant)	180 MT/D
By product Name		
1	Anhydrous Sodium Sulphate	16272 MT/A
2	Sodium Sulphide	1870 MT/A

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	13000	As per Schedule -I	Saline zone of Ulhas creek through Waldhuni Nala

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2.	Domestic effluent (Colony)	3000	As per Schedule -I	Local Body
3	Domestic effluent (Industry)	300	As per Schedule -I	Local Body

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.	Boilers (Co generation)	5	As per Schedule -II
2.	Process stacks	11	As per Schedule -II
3.	DG sets (3 x 6.3 MW)	1	As per Schedule -II

6. Conditions about Non Hazardous Wastes:

Sr. No.	Type Of Waste	Quantity UOM	Treatment	Disposal
1	Dry viscose, Trash sweeping waste cellulose from rayon & TC plant, civil debris, Burnt charcoal	7500 MT/A		Separate area is earmarked for disposal of solid waste
2	Cinder ash, Fly Ash	34000 MT/A		Ash shall be removed periodically and disposed for brick making

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	Chemical sludge from waste water treatment (On Dry Basis)	34.3	1500	MT/A	—	CHWTSDF
2	Sulphur waste	D1	250	MT/A	—	CHWTSDF
3	Spent catalyst (V2O5)	17.2	12	MT/A	—	CHWTSDF
4	Used Oil	5.1	75	MT/A	—	Sale to authorized recycler
5	Waste oil	5.2	100	MT/A	—	Sale to authorized recycler

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 connect their domestic effluent (outlet of septic tank) to their ETP inlet and work shall be completed within three months. Industry shall submit BG of Rs. 5 lakh towards compliance of the same.

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11. As the agencies to supply of continuous automatic online monitoring system for CS₂ are available in market, hence it was decided that industry shall install online monitoring system to stack for CS₂ by 31.7.2015.
12. Industry, the by product generator, should ensure that all the vehicles used to transport by-product to the vendor industry to be fitted with web based GPS system to record the origin to destination position and shall self monitor the compliance and submit monthly report to the Board.
13. Industry shall obtain affidavit from vendors stating that the by-product purchased from PP is used as raw material in their respective industries.
14. Industry shall submit BG of Rs. 2 lakh towards compliance point no. 12 & 13 above.

For and on behalf of the
Maharashtra Pollution Control Board

(P.K. Mirashe)
Member Secretary

Received Consent fee of -

Sl. No.	Amount (Rs.)	DD. No.	Date	Drawn On
1	100	184049	30.10.2014	SBI
2	1997859	184050	30.10.2014	SBI
3	125000	184150	06.11.2014	SBI

The balance fees Rs. 24954.3/- with the Board will be considered at the time of next renewal of consent

Copy to:

1. Regional Officer -Kalyan and Sub-Regional Officer-Kalyan-1, 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.

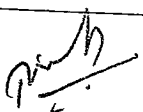
Schedule-I

Terms & conditions for compliance of Water Pollution Control:

- 1) A] As per your application, you have provided the Effluent Treatment Plant (ETP) with the design capacity of 16000 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	5.5 -9.0
02	Oil & Grease	10
03	BOD (3 days 27°C)	100
04	Suspended Solids	100
05	COD	250
06	Zinc	5

- C) The treated effluent shall be reused/recycled to maximum extent and excess if any, shall be connected to adequate safe and covered discharge line upto Saline Zone of Ulhas creek.
- 2) A] As per your consent application, you have provided the septic tank and soak pits for industrial domestic sewage and STP for colony sewage.
- 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 discharged to Municipal sewer.
- 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	1500
2.	Domestic purpose	3500 (Domestic purpose for colony) + 500 (Domestic purpose for industry)
3.	Processing whereby water gets polluted & pollutants are easily biodegradable	10800
4.	Processing whereby water gets polluted & pollutants are not easily biodegradable and are toxic	2700

- 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.

Maharashtra Pollution Control Board

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Schedule-II

Terms & conditions for compliance of Air Pollution Control:

- 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-

S. No.	Stack Attached To	APC System	Capacity Nm ³ /Hr	Height in Mtrs.	Type of Fuel	Quantity & UoM	S %	SO ₂ Kg/Day
1	Rayon Plant near time office	Air washers & Exhaust Fans	450000	45.72	NA	NA	NA	NA
2	Rayon Plant old chimney		900000	61	NA	NA	NA	NA
3	Rayon Plant additional Chimney		250000	61	NA	NA	NA	NA
4	Rayon Plant spin bath		115000	27	NA	NA	NA	NA
5	Sulphuric acid plant no I	Alkali scrubbers and mist eliminators	12000	41.2	NA	NA	NA	NA
6	Sulphuric acid plant no II		12000	41.2	NA	NA	NA	NA
7	CS ² plant	SO ₂ scrubbing system & H ₂ S scrubbing system	NA	32	NA	NA	NA	NA
8	Scrubber to CS ² plant		23000	16.38	NA	NA	NA	NA
9	Tyre cord plant I,II,III	Air washers & Exhaust Fans	1300000 each	25/13.5/13.5	NA	NA	NA	NA
10	DG Sets (3 x 6.3 MW)	Co - generation	325155	70	FO & LSHS	80 TPD	4.5/1	7200/1600
11	Boiler No 5 stand-by		75000	30.7	FO & LSHS			
12	Boiler No 6A & 6B (stand-by)		39000 each	30.7/30.7	FO & LSHS			
13	ABFC Boiler No 7	Three field ESP.	156150	57.5	Coal	266 MT/D	1	5320
14	Boiler No 8 (Coal fired)		148000	50	Coal			

- 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.

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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 .
SO ₂ (Process)	Not to exceed	3.5 Kg/Ton of concentrated H ₂ SO ₄ (100%) produced
Acid Mist	Not to exceed	50 mg/Nm ³
CS ₂	Not to exceed	300 mg/ Nm ³
H ₂ S	Not to exceed	70 mg/ Nm ³
NO _x from DG set	Not to exceed	100 ppm

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).
6. The Applicant shall operate three continuous automatic ambient air and micrometrological monitoring station at locations indicated by State Board for parameters SO₂, NO_x and particulate matter. These CAAQMS shall also have necessary provision of networking to the Air Monitoring Network of MPCB.
7. The industry shall operate three air quality monitoring stations for CS₂ and H₂S measurements installed in consultation with State Pollution Control Board (SPCB) to ensure attainment of WHO recommended ambient air quality norms (CS₂ = 100µg/m³ and H₂S = 150 µg/m³, 24 hr average).
8. The industry shall operate & maintain the CS₂ & H₂S recovery system regularly so that discharge of CS₂ & H₂S into environment shall not be more than 20-22kg/T & 2.5 kg/T of CS₂ production as mentioned "No increase in Pollution Load" report, submitted by industry dtd 07.06.2010.

Schedule-III
Details of Bank Guarantees

Sr. No.	Consent (C to E/O/R)	Amt of BG Imposed	Submissi on Period	Purpose of BG	Complian ce Period	Validity Date
1	C to R	Rs 5 lakh	Within 15 days from the date of issue of consent	O & M of PCS	30.09.2019	30.01.2020
2	C to R	Rs 5 lakh	Within 15 days from the date of issue of consent	Industry shall connect their domestic effluent (outlet of septic tank) to their ETP inlet	30.08.2015	31.12.2015
3	C to R	Rs 2 lakhs	Within 15 days from the date of issue of consent	Industry, the by-product generator, should ensure that all the vehicles used to transport by-product to the vendor industry to be fitted with web based GPS system to record the origin to destination position and shall self monitor the compliance and submit monthly report to the Board. Also industry shall obtain affidavit from vendors stating that the by-product purchased from PP is used as raw material in their respective industries.	30.09.2019	30.01.2020

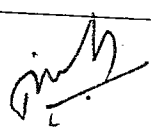
Maharashtra Pollution Control Board

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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.
- 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) An inspection book shall be opened and made available to the Board's officers during their visit to the applicant.
- 9) The applicant shall make an application for renewal of the consent at least 60 days before the date of the expiry of the consent.
- 10) 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).
- 11) 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 Wastes (M, H & TM) Rules, 2008 for the preceding year April to March in Form-IV by 30th June of every year.
- 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) The applicant should not cause any nuisance in the surrounding area due to operation of D.G. Set.
 - g) 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 yearly statement by 30th September every year on available open plot area, number of trees surviving as on 31st March of the year and number of trees planted by September end.
- 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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