



Maharashtra Pollution Control Board

महाराष्ट्र प्रदूषण नियंत्रण मंडळ

FORM V

(See Rule 14)

Environmental Audit Report for the financial Year ending the 31st March 2025

Unique Application Number

MPCB-ENVIRONMENT_STATEMENT-0000087475

Submitted Date

29-09-2025

PART A

Company Information

Company Name

Grasim Industries Limited (Unit - Century Rayon)

Application UAN number

MPCB-Consent_Ammendment-0000010874

Address

P B NO 22, Murbad Road, Shahad-421103, Dist- Thane (M S)

Plot no

45,53,56,57,58,59,76,77,78,201,202,207

Taluka

Ulhasnagar

Village

Shahad

Capital Investment (In lakhs)

75362

Scale

Large

City

Ulhasnagar

Pincode

421103

Person Name

Prakash S Bhat

Designation

General Manager

Telephone Number

09821284699

Fax Number

02512730064

Email

prakash.s.bhat@adityabirla.com

Region

SRO-Kalyan II

Industry Category

Red

Industry Type

R47 Synthetic fibers including rayon ,tyre cord, polyester filament yarn

Last Environmental statement submitted online

yes

Consent Number

Format1.0/CAC/UAN No.MPCB-CONSENT_AMENDMENT-0000010874/2307000070

Consent Issue Date

2023-07-11

Consent Valid Upto

30.09.2026

Establishment Year

1956

Date of last environment statement submitted

Sep 26 2024 12:00:00:000AM

Industry Category Primary (STC Code) & Secondary (STC Code)

Product Information

Product Name

Viscose Filament Yarn

Consent Quantity

29300

Actual Quantity

23872.80

UOM

MT/A

Sulphuric Acid

76000

70095

MT/A

Carbon-Di-Sulphide

20000

6817

MT/A

By-product Information

By Product Name

Consent Quantity

Actual Quantity

UOM

Part-B (Water & Raw Material Consumption)**1) Water Consumption in m3/day**

Water Consumption for Process	Consent Quantity in m3/day	Actual Quantity in m3/day
	14658.00	13388.00
Cooling	2000.00	1538.00
Domestic	2318.00	2029.00
All others	0.00	0.00
Total	18976.00	16955.00

2) Effluent Generation in CMD / MLD

Particulars	Consent Quantity	Actual Quantity	UOM
Trade Effluent	15300	13508	CMD
Colony Domestic Effluent	1200	611	CMD

2) Product Wise Process Water Consumption (cubic meter of process water per unit of product)

Name of Products (Production)	During the Previous financial Year	During the current Financial year	UOM
Viscose Filament Yarn	196.61	190.61	MT/A
Sulphuric Acid	1.65	1.68	MT/A
Carbon di Sulphide	4.16	5.32	MT/A

3) Raw Material Consumption (Consumption of raw material per unit of product)

Name of Raw Materials	During the Previous financial Year	During the current Financial year	UOM
PSY Wood Pulp	1.037	1.038	Ton/Ton
PSY Caustic Soda	0.588	0.602	Ton/Ton
PSY Carbon-di-Sulphide	0.279	0.279	Ton/Ton
PSY Sulphuric Acid	0.923	0.936	Ton/Ton
PSY Zinc	0.007	0.008	Ton/Ton
T/C Wood Pulp	1.016	1.010	Ton/Ton
T/C Caustic Soda	0.693	0.675	Ton/Ton
T/C Carbon-di-Sulphide	0.320	0.318	Ton/Ton
T/C Sulphuric Acid	0.855	0.782	Ton/Ton
T/C Zinc	0.0085	0.0076	Ton/Ton
CSY Wood Pulp	1.052	1.053	Ton/Ton
CSY Caustic Soda	0.660	0.658	Ton/Ton
CSY Carbon-di-Sulphide	0.280	0.277	Ton/Ton
CSY Sulphuric Acid	1.454	1.455	Ton/Ton
CSY C Zinc	0.0184	0.0185	Ton/Ton
Sulphur in Sulphuric Acid plant	0.331	0.328	Ton/Ton
Sulphur in CS2 plant	0.883	0.924	Ton/Ton

4) Fuel Consumption

Fuel Name	Consent quantity	Actual Quantity	UOM
Coal & Charcoal Churi	97090	83208	MT/A
LSHS	29200	142.46	MT/A

Part-C**Pollution discharged to environment/unit of output (Parameter as specified in the consent issued)****[A] Water**

Pollutants Detail	Quantity of Pollutants discharged (kL/day)	Concentration of Pollutants discharged (Mg/Lit) Except PH,Temp,Colour	Percentage of variation from prescribed standards with reasons	Standard	Reason
	Quantity	Concentration	%variation		
Suspended Solids	343.38	30.42	0	100 mg/l	0
C.O.D	990.63	87.75	-	250 mg/l	-
B.O.D. (3 days at 27oC)	285.99	25.33	-	30 mg/	-
Oil & Grease	57.67	5.11	-	10 mg/l	-
Zinc	27.85	2.47	-	5 mg/l	-

[B] Air (Stack)

Pollutants Detail	Quantity of Pollutants discharged (kL/day)	Concentration of Pollutants discharged (Mg/NM3)	Percentage of variation from prescribed standards with reasons	Standard	Reason
	Quantity	Concentration	%variation		
CS2	7746.05	204.78	0	300 mg/Nm3	0
H2S	1868.92	49.41	0	70 mg/Nm3	-
SO2 from Coal Fired Boiler	2460	1658.36	-	5320 Kgs/day	-
SO2 from Acid Plant	278.46	528.65	-	3.5 Kg/T of sulfuric acid production (728 Kgs/day)	-
SOx from D G Set	0	0	-	7200 Kgs/day	Standby
NOx from D G Set	0	0	-	100 ppm	Standby
Acid Mist	2.73	9.5	-	50 mg/Nm3	-

Part-D**HAZARDOUS WASTES****1) From Process**

Hazardous Waste Type	Total During Previous Financial year	Total During Current Financial year	UOM
17.2 Spent catalyst	0.0	1.880	MT/A
Other Hazardous Waste	79.55	58.940	MT/A
5.1 Used or spent oil	18.510	6.090	MT/A
5.2 Wastes or residues containing oil	40.740	11.780	MT/A
33.2 Contaminated cotton rags or other cleaning materials	12.580	17.110	MT/A

33.1 Empty barrels /containers /liners contaminated with hazardous chemicals /wastes	6.580	5.670	MT/A
35.2 Spent ion exchange resin containing toxic metals	4.750	0.000	MT/A
29.1 Process wastes or residues	726.017	400.281	MT/A
15.2 Discarded asbestos	0.0	149.780	MT/A

2) From Pollution Control Facilities

Hazardous Waste Type	Total During Previous Financial year	Total During Current Financial year	UOM
35.3 Chemical sludge from waste water treatment	3706.710	3653.920	MT/A

Part-E

SOLID WASTES

1) From Process

Non Hazardous Waste Type	Total During Previous Financial year	Total During Current Financial year	UOM
Dry Viscose, Trash Sweeping Waste Cellulose from Rayon and T.C. plant, Civil debris & Burnt Charcoal	5743.09	5089.93	MT/A
Yarn Waste	735.08	730.054	MT/A

2) From Pollution Control Facilities

Non Hazardous Waste Type	Total During Previous Financial year	Total During Current Financial year	UOM
Cinder Ash & Fly Ash	13828.93	10781.32	MT/A
Bio Sludge	31.69	148.240	MT/A

3) Quantity Recycled or Re-utilized within the unit

Waste Type	Total During Previous Financial year	Total During Current Financial year	UOM
28.1 Process Residue and wastes	0	260.36	MT/A

Part-F

Please specify the characteristics(in terms of concentration and quantum) of hazardous as well as solid wastes and indicate disposal practice adopted for both these categories of wastes.

1) Hazardous Waste

Type of Hazardous Waste Generated	Qty of Hazardous Waste	UOM	Concentration of Hazardous Waste
35.3 Chemical sludge from waste water treatment	4032.670	MT/A	NA, Disposal at CHWTSDF (MWML,Taloja)
17.2 Spent catalyst	1.880	MT/A	NA, Disposal at CHWTSDF (MWML,Taloja)
Other Hazardous Waste	53.940	MT/A	NA, Disposal at CHWTSDF (MWML,Taloja)
5.1 Used or spent oil	5.090	MT/A	Sent to Authorized recycler
5.2 Wastes or residues containing oil	11.780	MT/A	Sent to Authorized recycler
33.2 Contaminated cotton rags or other cleaning materials	17.614	MT/A	Disposal at CHWTSDF (MWML,Taloja)
35.2 Spent ion exchange resin containing toxic metals	0	MT/A	Disposal at CHWTSDF (MWML,Taloja)
33.1 Empty barrels /containers /liners contaminated with hazardous chemicals /wastes	4.176	MT/A	Sent to Authorized recycler
28.1 Process Residue and wastes	644.226	MT/A	Sent to Co-processing
15.2 Discarded asbestos	149.780	MT/A	Disposal at CHWTSDF, MWML, Taloja

2) Solid Waste

Type of Solid Waste Generated

Trash, Sweeping, Waste Cellulose from Rayon & T.C., Civil Debris & De
ased Charcoal

Qty of Solid Waste UOM Concentration of Solid Waste

5097.03 MT/A NA

Part-G

Impact of the pollution Control measures taken on conservation of natural resources and consequently on the cost of production.

Description	Reduction in Water Consumption (M3/day)	Reduction in Fuel & Solvent Consumption (KL/day)	Reduction in Raw Material (Kg)	Reduction in Power Consumption (KWH)	Capital Investment(in Lacs)	Reduction in Maintenance(in Lacs)
Replacement of three nos. 200 CFM air compressor with single High Capacity 600 CFM screw air compressor.	0	0	0	84038	19.68	7.55
Upgradation of New AT washing line A pump motors by IE4 efficiency motors.	0	0	0	30532	8.64	2.74
Calcination exhaust blower to be controlled by VFD with closed loop feed back from temperature of the salt.	0	0	0	49625	3.82	4.46
Provision of VFD for TC Spinning Air Washer no.1 &2	0	0	0	39396	6.59	3.35
Salt Drying with HP Steam in Tyre Cord Calcination Plant instead of Present Kerosene fire Burner system.	0	0	0	0	75.29	0
Improvement in conditioning of CSY Hall No. 3 & 4	0	0	0	178704	36.37	15.19
Replacement of Leather Flat belt to Energy efficient Synthetic Flat belt on CSY Air Washer Fan no- 7 & 8.	0	0	0	21199	3.21	1.80

Part-H

Additional measures/investment proposal for environmental protection abatement of pollution, prevention of pollution.

[A] Investment made during the period of Environmental Statement

Detail of measures for Environmental Protection	Environmental Protection Measures	Capital Investment (Lacks)
Modernization, Upgradation & Capacity enhancement for CSY hall conditioning. (For Air conditioning sys.)	Energy saving scheme	36.37
Replacement of second Economizer in Acid Plant No.1	Energy saving scheme	10.65
Upgradation of New AT washing line A pump motors by IE4 efficiency motors.	Energy saving scheme	8.64
VFD with Panel and bypass starter for TC Spinning Air Washer no 1 & 2 (40 HP)	Energy saving scheme	6.59

Replacement of cooling towers blade with aerodynamic blades-ER CT 1, 2, & 5 - fan	Energy saving scheme	4.98
Calcination Exhaust blower VFD.	Energy saving scheme	3.82
FRP Trough for PSY Spinning Machines (Qty -12 Nos)	Environment Protection Measure	20.04
Storm Water and ETP Water Separation	Environment Protection Measure	12.14
Modified wash water assembly for 24 CSY machines	Environment Protection measures	5.64
Installation of 200 KLD UF Plant	Environment Protection Measure	5.01
PH sensor on storm water drain	Environment Protection Measure	2.98
Noise level checking instrument as per ABG Noise Management Technical Standard (TS -06) requirements(Quantity 01 set)	Environment Protection Measure	2.96
Chimney Replacement of Stoker fired boiler	Environment Protection Measure	1.82
Lightening protection system for CSY Building	Environment Protection Measure	0.89

[B] Investment Proposed for next Year

Detail of measures for Environmental Protection

<i>Detail of measures for Environmental Protection</i>	<i>Environmental Protection Measures</i>	<i>Capital Investment (Lacks)</i>
Replacement of old screw chiller with centrifugal chiller	Energy Saving Schemes	175.00
Replacement of conventional fills type cooling tower with mist type fills cooling tower	Energy saving scheme	25.00

Part-I

Any other particulars for improving the quality of the environment.

Particulars

Grasim Industries Limited (Unit Century Rayon) lays high emphasis on Environmental Improvement programme like plantation of trees in its premises and surrounding areas. Varieties of planted trees are based on seasonal climate and nature of soil as tested at our own Horticulture Department. The trees planted are, Peltophurum, Acacia, Cassurina, Cassia, Gold Mohar, Rain Tube, Pole Plantation, Saal, Bamboo, etc. The company spends huge amount every year on plantation alone. Shivaji Udyan opposit

Name & Designation

Prakash S Bhat - GM-EHS & Sustainability

UAN No:

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Submitted On:

29-09-2025