



Dated: 07.05.2026

Birla Cellulosic, Kharach
PCB ID-14989

To,

Dr. S.N. Agrawat,
Regional Officer
Gujarat Pollution Control Board,
Plot No, 1501, GIDC Estate,
Ankleshwar.

Subject: Submission of Annual Environmental Statement for the Year 2025-2026.

Dear Sir,

This has reference to above subject matter; we are submitting herewith the Annual Environmental Statement (Form – V) for the financial year 2025-2026.

Hope, the same is in order.

Thanking you,

Yours faithfully,
For Birla Cellulosic

Dharmesh Patel
GM – Environment

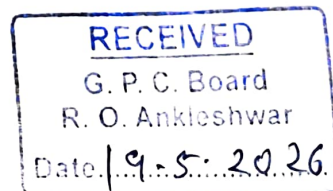
Encl: Annual Environmental Statement (2025-2026).

CC to:

1. Mr. J.M. Mahida, Unit Head- Ankleshwar, Gujarat Pollution Control Board, Paryavaran Bhavan, Sector 10 A, Gandhinagar – 382010, Gujarat.



Birla Cellulose
Fibres from nature



Grasim Industries Limited
Unit – Birla Cellulosic

Works : Birladham, Kharach Kosamba R.S.
Dist. Bharuch (Gujarat) – 394 120 INDIA
CIN : L17124MP1947PLC000410

Telephone +91 2646 270001-005, 270301-305
Fax +91 2646 270010, 270130
Email bc-kharach.info@adityabirla.com

Liaison Office : 11th Floor – 1101 & 1102 OCEAN, Opposite Vadodara Central Mall, Vikram Sarabhai Marg, Vadiwadi, Vadodara – 390023 Gujarat – India
Regd. Office : P.O. Birlagram, Nagda (MP) – 456 331 Phone : (07366) 246760-66, Fax : 255198, Website : www.grasim.com

20.00 X 33.00 CM (M.R.P. RS.) 90.00 130.00 170.00 205.00 230.00 255.00
(M.R.P. inclusive of all taxes)

FORM - V
(See Rule 14)
<u>Environmental Statement for the financial year ending the 31st March, 2026</u>

PART - A			
<u>Industrial Profile</u>			
1	Name & address of the Owner/Occupier of the industry, operation or process	-	Mr. Vijayendra Babu, Joint President, Birla Cellulosic (A Unit of Grasim Indust. Ltd.), Birladham, Kharach, P.O Kosamba (R.S.), Dist. Bharuch (Gujarat) - 394 120.
2	Industry category	-	Red/Large
3	Production capacity:	Viscose staple fibre	1,73,375 MT/ Year
		Solvent Spun Cellulosic Fibre	36,500 MT/Year
4	Year of establishment	-	Dec-97
5	Date of the last environmental Statement submitted	-	15.05.2025

PART - B	
<u>Production data, Water & Raw Material Consumption</u>	

<u>A. Production data</u>			
	Product name	MT/Year	MT/Day
1	Viscose staple fibre	155902	427
2	Carbon desulphide	18437	51
3	Sulphuric acid	113056	310
4	Power (Electricity) (MW)	206599 (MW)	23.6 (MWh)
5	Aditya birla cellulosic fibre research centre	200	0.55
6	Solvent spun cellulosic fibre	29229	80
7	Sodium Sulphate	92825	254
8	Knitted fabric	2.76	0.01
9	Yarns	13	0.04
10	Woven fabric (Mtr)	15576	43
11	Garments (No)	164	0.45
12	Swatches & Hangers (No)	24615	67

<u>B. Water consumption</u>			
	Category-wise details	M3/Year	M3/Day
1	Process	2273860	6230
2	Cooling & Boiler	1685457	4618
3	Domestic	330511	906

<u>Process water consumption per product output</u>					
No.	Plant	Product	Unit	During the previous FY 24-25	During the current FY 25-26
1	Birla cellulosic	VSF	M3/ToF	18.94	12.28
2	Birla Excel	SSCF	M3/ToF		

*ToF - Tone of fibre

C. Raw Material Consumption					
No.	Name of raw materials	Name of Products	Unit	During the previous FY 24-25	During the current FY 25-26
1	Rayon grade pulp	VSF	T/ToF	0.998	1.002
2	Caustic Soda	VSF	T/ToF	0.436	0.443
3	Sulphuric acid	VSF	T/ToF	0.591	0.607
4	Carbon disulphide	VSF	T/ToF	0.079	0.080
5	Pulp sheet	SSCF	T/ToF	0.919	0.998
6	NMMO(60%)	SSCF	T/ToF	0.017	0.018

*ToF - Tone of fibre

Part-C						
Pollution discharged to environment / unit of output (Parameter as specified in the consent)						
No.	Pollutants	Parameters	Quantity of pollutants discharged (TPD), except pH & Temp.	Unit	Permissible limit	Concentration of pollutant in discharge
1	Wastewater- Treated Effluent (ETP)	pH	-	-	6.5-8.5	7.3
		S.Solids	0.24	mg/l	100	38
		Zinc	0.004	mg/l	10	0.6
		BOD	0.18	mg/l	100	28
		COD	0.79	mg/l	250	125
		Temp.	-	°C	40	30.5
2	Domestic sewage- Treated Sewage(STP)	BOD	0.02	mg/l	<20	15.3
		S.Solids	0.03	mg/l	<30	21.75
		Residual chlorine	0.001	mg/l	min. 0.5	0.7
3	Process gas emission- Acid plant -1	SO ₂	0.001	Kg/ToA	2	0.77
		Acid mist	0.010	mg/Nm ³	25	10.50
	Process gas emission- Acid plant -2	SO ₂	0.001	Kg/ToA	2	0.67
		Acid mist	0.007	mg/Nm ³	25	7.19
	Process gas emission- Spg. stack (Including CS ₂ stack)	CS ₂	2.86	Kg/ToF	125	6.7
		H ₂ S	0.44			1.0
	Flue gas emission- Stack-1- Boiler-1 & 2	SPM	0.119	mg/Nm ³	100	48
		SO ₂	0.635	mg/Nm ³	600	254.5
		NO _x	0.215	mg/Nm ³	600	86.3
	Flue gas emission- Stack-2- Boiler-3	SPM	0.109	mg/Nm ³	50	44.29
		SO ₂	0.603	mg/Nm ³	600	244.3
		NO _x	0.195	mg/Nm ³	300	79
		Mercury	-	mg/Nm ³	0.030	LTAR(<0.025)

Note :	Power plant Stack # 1	1 No, 76 meter
	Power plant Stack # 2	1 No, 86 meter
	Rayon Stack	1 No, 175 meter
	Acid Plant Stack # 1	1 No. 75 meter
	Acid Plant Stack # 2	1 No. 75 meter
	CS ₂ plant	1 No. 40 meter
	D.G. Set	2 No. 30 meter

PART- D					
Hazardous Wastes					
(As specified under Hazardous (M, H & TM) & Other waste rules, 2016)					

Sr. No.	Source of waste	Waste Type	Consented Quantity (TPA)	During the previous	During the current
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Sr. No.			Quantity (TPA)	previous FY 24-25	Current FY 25-26
1	All dept.	Used Oil	40 KL	9.74 KL	7.88 KL
2	CS2 plant	Sulphur Deashing Sludge	791 MT	758.97 MT	551.88 MT
3	Acid plant	Spent Catalyst	10 MT	2.93 MT	8.56 MT
4	Viscose	Exhaust air or gas cleaning residue	250 MT	248.14 MT	241.86 MT
5	ETP	ETP sludge	16000 MT	15850 MT	13286 MT
6	All plants	Empty barrels, Containers	20000 No.	5653 No. 84.8 MT	7213 No. 88.3 MT
7	WTP plant	Spent resin	40 KL	---	6.5 KL
8	All plants	HDPE bags	75 MT	60.82 MT	64.35 MT

Note:	Hazardous waste(Sulphur deashing sludge, Exhaust air or gas cleaning residue & spent catalyst) being disposed to Bharuch Enviro Infrastructure Ltd., GIDC Ankleshwar.
	ETP sludge being sold to Cement Industries like M/s. Ultra Tech Cement.
	HDPE bags, Discarded container & liners and Used Oil being sold to GPCB approved authorized recycler.
	Spent resins are used for Energy recovery in Boiler for steam and power generation

PART- E

Solid Wastes

Sr. No.	Source of waste	Waste Type	Consented Quantity (TPA)	During the previous FY 24-25	During the current FY 25-26
1	Energy Centre	Fly ash	156245 MT	82080 MT	84973 MT
2	Spinning plant	Tow waste	387 MT	130.6 MT	189 MT

Note:	Total quantity of Fly ash being utilized as per the MoEFCC guidelines.
	Tow waste is being sold to authorized recycler.

PART - F

Please specify the characterizations (in terms of composition and quantum) of Hazardous waste

1	ETP sludge	Please refer Annexure -1A
2	Sulphur De-ashing sludge	Please refer Annexure -1B
3	Used Oil	Please refer Annexure -1C
4	Spent Catalyst	Please refer Annexure -1D
5	Exhaust Air or Gas Cleaning Residue	Please refer Annexure -1E
6	Spent Resin	Please refer Annexure -1F
7	HDPE Bags & Discarded containers & liners	Please refer Annexure -1G

PART - G

Impact of the pollution control measures on conservation of natural resources / Environment quality

→ Please refer Annexure-2

PART - H

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

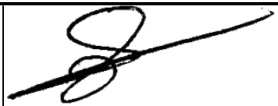
→ Please refer Annexure-3

PART - I

Any other particulars for improving the quality of Environment

→ Please refer Annexure-4

Place	Kharach,
Date	10.05.2026

Name & Signature of a person carrying out an Industry - operations or process	
Signature	
Name	Dharmesh Patel
Designation	General Manager
Address	Birladham, Kharach, Tal: Hansot; Dist. Bharuch (Gujarat)-394120

ANNEXURE - 1**Annexure-1(A) ETP sludge**

→	The composition of ETP Sludge mainly consists, Gypsum as $\text{CaSO}_4 \cdot 2\text{H}_2\text{O}$ - 70-78%, Moisture- 20-25%, Loss of ignition- 10-12%, Zinc as Zn- 2-2.5%
→	Sludge produced in Primary as well as in Secondary treatment in Effluent Treatment plant is collected into sludge thickener for its thickening purpose. Then Sludge is fed to sludge dewatering press (Belt Press) for the dewatering. Further the dewatered sludge is dried into sun light to reduce its moisture level upto 25% w/w. The quality of dried sludge (Chemical Gypsum) is tested in our Chemical Laboratory and with full quality control, this sludge (Chemical Gypsum) is being dispatched to Cement Manufacturers (M/s Ultratech cement).
→	Birla Cellulosic maintains all required legal documents at a time of waste dispatching like online Hazardous waste Manifest under Form-10, TREM cards, sticker under Form-8 etc, as required during transportation and disposal. Waste is being transport along with all necessary documents having GPS fitted vehicle in-line with GPCB requirement.
→	Birla Cellulosic files Form - IV on monthly basis in XGN online system (On or Before 10th of each month) for monthly disposal details as per legal requirement & being maintains generated & disposal quantity in Form-III. Annual report of Hazardous waste is being updated & submitted on GPCB- XGN platform.

Annexure-1 (B)- Sulphur Deashing Sludge

→	The composition of Deashing sludge mainly consists, Calcium as Ca- 40-45%, Sulphur Content- 35-45%, Unburn carbon- 8-10%, Magnesium as Mg- 3-5%, Silica- 1-3%, Iron as Fe-1-2%, Moisture-0.5-2%.
→	Sludge produced from CS ₂ /Acid plant., during deashing of each furnace are collected in separate closed storage yard, then it is being disposed to M/s. Bharuch Environ. Infrastructure ltd, TSDF site for landfilling.
→	Birla Cellulosic maintains all required legal documents at a time of waste dispatching like online Hazardous waste Manifest under Form-10, TREM cards, sticker under Form-8 etc, as required during transportation and disposal. Waste is being transport along with all necessary documents having GPS fitted vehicle in-line with GPCB requirement.

Annexure-1 (C)- Used Oil

→	Used oil is being produced from all plant at a time of maintainance and lubrication are collected from each dept. & being sent to centralized bin of Birla Cellulosic for further disposal to identified registered recycler M/s. I-engineering and M/s. S.B. Lubricants for further recycling.
→	Birla Cellulosic maintains all required legal documents at a time of waste dispatching like online Hazardous waste Manifest under Form-10, TREM cards, sticker under Form-8 etc, as required during transportation and disposal. Waste is being transport along with all necessary documents having GPS fitted vehicle in-line with GPCB requirement.

Annexure-1 (D)- Spent Catalyst

→	The composition of spent catalyst (V_2O_5 based) mainly consists of, Silica (SiO_2) – 60–75%, Vanadium pentoxide (V_2O_5) – 5–10%, Potassium compounds (as K_2O/K_2SO_4) – 5–10%, Sulphur compounds (as sulphates) – 5–8%, Iron as Fe – 1–3%, Arsenic – 0.1–1%, Lead & other heavy metals – 0.1–0.5%, Moisture – 0.5–2%.
→	Spent Catalyst produced from Acid plant, during overhauling & maintainace work, then it is being disposed to M/s. Bharuch Environ. Infrastructure ltd,TSDf site for landfilling with legal documents like online Hazardous waste Manifest under Form-10, TREM cards, sticker under Form-8 etc.

Annexure-1 (E)- Spent Resin

→	The characteristics of spent resin generated from WTP mainly include, sand like granular particles with brownish color in appearance, slightly acidic to neutral in nature, presence of adsorbed salts and ions such as Calcium (Ca), Magnesium (Mg), Sodium (Na) and Chlorides/Sulphates, moisture retaining in nature.
→	Spent resin generated from WTP (DM process) is being disposed in-house to power plant for energy recovery purpose.

ANNEXURE - 2**Impact of the pollution abatement measures taken in FY-26 for conservation of natural Resources :**

Sr. No.	Control Measures adopted	Implemented at	Impact on conservation of natural resources		
Measures taken for water & effluent reduction					
No.	Water conservation & effluent reduction project	Dept.	Water reduction (m3/day)	Effluent reduction(m3/day)	-
1	Scrubber PHE soft water, cold sump zone PHE soft water and condenser water reuse back to process through WTP	Spinning	4153	4153	
2	MSFE RO permeate water use in process	Auxiliary	1727	1727	
3	CTBD RO Permeate water use in process	WTP	512	512	
4	Viscose simplex vaccum pump water reuse in Cooling tower	Viscose	150	150	
5	Centrifuge hood cooling water & pneumatic blower water reuse in process @ viscose dept.	Viscose	100	100	
6	First wash water reuse in cutter venturi	Spinning	870	870	
7	Sieve water from spinning reuse for tow washing	Spinning	57	57	
8	MSFE RO reject waste water reuse for Cooling Tower makeup	Auxiliary	524	524	
9	CTBD RO reject waste water reuse for clarifloculator backwash	Auxiliary	310	310	
10	Viscose CS2 pressing water to crude CS2 pressing	Viscose	157	157	
11	WFE vapor condensate reuse back in process	Excel	63	63	
12	MEE vapor condensate reuse back in process	Excel	1201	1201	
13	Condensate from TEE & Drum Dryers used to make steam (recovery) in Acid plant	CS2/Acid Plant	292	292	
14	Sand Filter to Clarifloculator & DM backwash use in clarifier	WTP/ETP	1429	1429	
15	CAP recycle water reuse back in cooling tower Auxiliary)	Auxiliary	424	424	
16	Fibre dryer & Recovery Anhydrous Steam condensate use in DM plant inlet	Spinning	669	669	
17	DM regeneration water recycling in lime preparation	WTP/ETP	250	250	
18	Excel effluent in lime prepration treated effluent in belt press	WTP/ETP	505	505	
19	Treated effluent from SC-2 in belt press	WTP/ETP	0	0	
20	Condensate recovery (Excel Plant)	Excel	573	573	
Total water conservation: (M3/Day)			13967	13967	

Measures taken for Power/steam conservation					
Sr. No.	Energy Efficiency Improvement Project	Dept.	Power (KWH/Day)	Eq. Steam (TPD)	Coal (TPD)
1	Energy Efficient Chiller - 300 TR For CS2 Plant	CS2/ACID	1577.6	7.10	1.29
2	Exhaust stream connection for CAP CS2 recovery	EDTA/CAP	656.3	2.95	0.54
3	EDTA Scrubber Nozzles (285 Nos)	EDTA/CAP	1915.2	8.62	1.57
4	Old MCW pump replace with high efficiency pump	Energy Centre	2713.3	12.21	2.22
5	Heat Exchanger for desulp bath Heating System	Spinning	307.9	1.39	0.25
6	PHE for MSFE RO -DM Water Preheating	WTP/ETP	482.1	2.17	0.40
Total energy conservation: (KWH/Day)			7652	34	6

ANNEXURE - 3**Additional measures/Investments proposal for Environmental Protection including abatement of pollution & prevention of pollution :****Environmental expenses during FY-26**

Sr. No.	Particulars	Category	Expenses in INR (Lacs)
1	ETP/ STP Costing	Chemical dosing, Power consumption costing, Repairing & maintenance cost, Pipeline maintenance cost	1262
2	Green belt development/Horticulture Expenses:	Green belt development cost	655
3	Waste handling Expenses	On-site waste handling cost, Waste transportation & treatment cost, BMW handling cost, Solid domestic waste handling cost, waste yard development cost, Plastic waste recycling	109
4	Improvement Projects Cost	ETP/ STP Improvement/project, H2S/CS2 gas recovery system, Smell reduction project, CS2 stack structure replacement activity	222
5	APCM/CEMS/AAQMS cost (Power/Maintenance/Repairing cost)	APCM, OCEMS, AAQMS, ESP, H2S/CS2 gas recovery system, Scrubber operation and maintenance	2934
6	Salaries & wages	ETP/STP and Environment team	165
7	Environmental audits & other legal activities	Consent application fees, Analysis charges, Environment audit fees, ZDHC sampling charges, Fly ash audit charges	28
8	CSR activities	Education, Health, Social issues & other	37
Total Expenses (Rs.)			5413

ANNEXURE - 4**Any other particulars for improving the quality of Environment**

1	Birla Cellulosic recognizes that effective management of environment impacts is a fundamental part of our business.
2	As a responsible organisation, our main aim is to conserve & protect the environment in sustainable manner.
3	Tool box talk & Monthly training is being conducted to spread awareness w.r.to environment rules, regulation & effective implementation. Apart from this organising grand celebration on World Environment day with different campaign each year.
4	Optimizing consumption of raw materials on continuous basis by efficient monitoring, process optimization & controlling through DCS.
5	Adequate Green belt has been developed in the campus along the boundary wall and open spaces.
6	Beyond regulatory requirement, to check efficiency of ETP, STP, APCM environment parameter (effluent characteristics, Flue gas emission, process gas emission, ambient parameter) is being monitored by NABL accredited laboratory on monthly basis.
7	Beyond regulatory requirement, in-line with ZDHC requirement half-yearly sample of effluent is being monitored by ZDHC accredited laboratory.
8	In-line with regulatory requirement, GPCB approved schedule-I auditor is being conducted environment audit quarterly.
9	A full-fledged in-house laboratory is established to monitor the parameters round the clock.
10	Unit has installed AAQMS for monitoring of ambient air condition.
11	Unit has installed OCEMS system to transmit effluent/emission parameter's live data 365*24*7.
12	Unit has installed 3 No. of ESP having three fields with boiler 1 & 2, four fields with boiler 3 to control particulate matter emission from flue gas.
13	Powerful exhaust system on all 4 spinning machines, Adequate CS ₂ recovery system, shutters for spinning machines has been provided to reduce emission.
14	Two stage scrubbing system & SRP scrubber provided in Acid/CS ₂ plant. These Scrubbing instruments are working effectively for both acid plants and CS ₂ plant.
15	Auto pH controller system provided at sulphur recovery plant which have reduce the pH variation in caustic scrubber.
16	Dust collector system installed at power plant to eliminate the dust emission.
17	To eliminate dust emission in coal area fogging system, dust extraction system in crusher house, water sprinkling system has been provided.
18	Mass/volume flow meters installed for Active ingredients i.e. CS ₂ , H ₂ SO ₄ , NaOH etc dosing to minimize waste.
19	Unit has installed RO plant for recycling of MSFE vapour condensate.
20	Unit has constructed rain water harvesting tank for conservation of rain water & divert the same to reservoir. This has resulted water saving of ~456712 m ³ during rainy season.
21	An agreement between M/s. Grasim Industries Ltd. & M/s. Greenyana Sunstream Pvt. Ltd has been done to supply 4.4 MW hybrid power to company.

22	An agreement between M/s. Grasim Industries Ltd. & M/s. Bajrang Processor Pvt. Ltd. has been done to supply 2.10 MW wind power to company.
23	An agreement between M/s. Grasim Industries Ltd. & M/s. Manikaran Pvt. Ltd. has been done to supply 1.5 MW wind power to company.
24	Unit has implemented facility for collection, segregation of solid waste generating from colony area and hand-over to local body for further treatment of same.
25	To meet EUBAT norms, advance gas recovery system (EDTA/CAP) set to recover CS ₂ and Sulphur from waste gases.
26	For catering of additional effluent load from CS ₂ /H ₂ S gas recovery (EDTA/CAP System), unit has additionally installed CTBD-RO plant.
27	EUBAT assessment has been done for site beyond regulatory requirement.
28	Unit has installed Solar panel 200 KW. As a resultant we will get 35 KW Renewable solar power throughout a year.
29	Unit has waste heat recovery system, generating steam from waste heat produced by exothermic reaction @Acid plant, thereby reducing overall steam consumption and improving energy efficiency.
30	A grand Environment day celebration carried out by encouraging school students, Colony residents, and surrounding villagers by conducting various activities like, Tree plantation in premises as well as nearest village's Govt. schools, Anganvadi, , Seed distribution, Jute bag distribution, Nukkad natak, walkathon and arranging other competition lik. Our voice, Our environment, Environment Hackathon, Green Showcase, Recycling driver (Waste segregation practical demo session) and at the end taken group pledge for Green Environment.