

Date: 24.05.2025

Dr. Yogesh Kumar IRO, Ministry of Environment, Forest & Climate Change 407, Aaranya Bhavan, Sector-10, Gandhinagar

Dear Sir,

Subject: Half Yearly (From Oct-2024 to Mar-2025) EC Compliance reports for the Environment Clearance received from MOEFF & CC, New Delhi.

Please find enclosed six-monthly Environment Compliance reports for following Environment Clearances.

- 1. F. No. J-11011/321/2016-IAII (I); dated 17.10.2019 (Latest EC)
- 2. F. No. J-11011/321/2016-IA II (I), dated 16.08.2018
- 3. F. No. J-11011/321/2016-IA II(I)Pt, dated 15.01.2018
- 4. F. No. J-11011/463/2007-IA II (I), dated 20.12.2007

Hope you will find same in Order.

Yours Faithfully,
For Grasim Industries Limited
(Unit: Grasim Cellulosic Division, Vilayat)

Sanjay Kumar Verma Sr. President & Unit Head (Auth. Signatory)

CC: MoEF&CC Delhi, CPCB Vadodara, GPCB Gandhinagar and Bharuch

Grasim Industries Limited (Unit:Grasim Cellulosic Division)

Compliance status on Environmental Clearance
MOEF Ref. Letter No.: J-11011/463/2007-IA II (I), dated 20-12-2007

Compliance Status Report for "Environmental Clearance" Accorded by the MoEF For

Grasim Cellulosic Division (GCD), Vilayat

Compliance status on Environmental Clearance MOEF Ref. Letter No.: J-11011/463/2007-IA II (I), dated 20-12-2007

Sr. No.	Stipulation	Compliance Status
1	This reference to application No. Nil, dated 9 th May-2007 along with Form-I & pre-feasibility report seeking the environmental clearance for the above-mentioned project and subsequent correspondence vide letters dated 28 th September 2007, 13 th October 2007 and 30 th November 2007.	Acknowledged
2	The Ministry of Environment & Forest has examined the proposal along with the correspondence mentioned above and noted the proposal is to set up the Viscose Staple Fibre (VSF) plant at plot # 1, GIDC Industrial estate, Vilayat, Vagra, Bharuch district Gujarat by M/s Grasim Industries Limited (Grasim Cellulosic Division)	Industry is setup at Plot No.1, GIDC Industrial Area, Vilayat, Taluka Vagra, District Bharuch (Gujarat). Latitude: 21 deg 46'8" and 21 deg 47'11" North Longitude: 72 deg 53'18"and 72 deg 54'49" East
	The Total Cost of the Project is Rs. 1200 Crores No ecological sensitive areas are located within 15 KM periphery of the plant site.	Total Cost 1703 Crores No ecological sensitive areas are located within 15 KM periphery of the plant site.
	The proposed plant is to be located in notified Industrial area at GIDC.	Plant is located on Plot No.1 of GIDC Industrial Estate, Vilayat, Taluka- Vagra, District – Bharuch, Gujarat
	Total land taken on lease from Gujarat Industrial Development Corporation for the plant is 567 Acres.	530 Acre land provided on lease from GIDC after having provision of land for power corridor vide Letter No. GIDC/PROJ/MKT/GRASIM/575 dt. 06.12.2006.

Following will be the products and production capacity	Following w	ill be the	products and	d production	capacity:
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Sr. No.	Products	Capacity
1	Viscose Staple Fibre	127750 Tonnes / annum
2	Carbon Disulphide	23725 Tonnes / annum
3	Sulphuric Acid	10220 Tonnes / annum
4	Power Generation	25 MW
Sr. No.	By-Products	Capacity
1	Anhydrous Sodium	83038 Tonnes / annum
	Sulphate	

The industry has obtained the following subsequent environment clearances for expansion of production capacities:

- Environment Clearance No. F. No. J-11011/321/2016-IA-II(I) Pt Dated – 15.01.2018
- Environment Clearance No. F. No. J-11011/321/2016-IA-II(I) Pt Dated – 16.08.2018
- Environment Clearance No. F. No. J-11011/321/2016-IAII(I) dated 17.10.2019

A summary of the total production capacities as per these environmental clearances, along with the actual production during the reporting period, is provided in **Table No. 1**.

Table No. 1

Products=>	Viscose Staple Fibre (MT/Annu m)	Carbon Di Sulphide (MT/Annum)	Sulfuric Acid (MT/Annum)	Sodium Sulphate (Byproduct) (MT/Annum)	Power Generation MWH	Solvent Spun Cellulosic Fibre (Excel Fibre) (MT/Annum)
EC Amendment – As per EC No. J- 11011/463/2007-IA II (I), Dated 20.12.2007	127750	23725	102200	83038	25 MW	-
EC Amendment - As per EC No. F. No. J- 11011/321/2016-IA-II(I) Pt Dated – 15.01.2018	255500	34675	182500	166076 to 210788	55 MW	-
EC Amendment – As per EC No. F. No. J- 11011/321/2016-IA-II(I) Pt Dated – 16.08.2018	255500	34675	182500	166076 to 210788	55 MW	-
EC Amendment - EC No. F. No. J- 11011/321/2016-IAII(I) EC issued on 17th October 2019 (Total Capacity after Expansion)	438000	65700	346750	348576 - 393288	55 MW	36500
Total Production (Tons) – Oct-24 to Mar-25	208264	21502	88609	119257	25.66	NIL
Total Production (Tons) – Apr-24 to Sep-24	204667	18160	121639	114689	22.25	NIL

Note: State Environmental Impact Assessment Authority (SEIAA), Gujarat has issued an amendment vide letter no. SEIAA/Guj. /EC/1(d), 4(d) & 5(f) /96/2011, dated 30-May-2011 & Letter No. SEIAA/GUJ/EC/1(d),4(d)&5(f)/98/2012 dt. 22.03.2012 for use of natural gas in place of charcoal in CS2 plant and 25MW powerplant which is installed by Grasim Chemical. As per the EC No. F. No. J-11011/321/2016-IAII(I) issued on 15.01.2018, the remaining 30MW powerplant is installed by us. Kindly refer the Power generation details in above table. Pulp dissolving grade (130305 Tonnes / annum), Caustic Industry has taken environment clearance for expansion in 3 Soda 100% (74095 Tonnes / annum), Sulphur (55079 Tonnes production capacities on 15.01.2018 and 17.10.2019. Raw / annum), Charcoal (7118 Tonnes / annum), Zinc (383 Tonnes Material consumption is increased due to increase in VSF / annum) and Coal (255500 Tonnes / annum) will be used as production after receiving EC amendment for expansion in Jan-2018 and Oct-2019. Raw Material Total Water Requirement of the plant will be 25,000 m3/day Average Water consumption 4 Table No.02 **Water Consumption** and will be sourced from Narmada River, supplied by GIDC. for reporting period (Oct'24 (m3/day) to Mar'25) is 16838.06 Month **Average** m3/day, Water is sourced Oct'24 16203.61 from Narmada River and Nov'24 17395.53 supplied by GIDC. Summary Dec'24 15782.97 of water consumption for Jan'25 15230.84 reporting period is tabulated Feb'25 16511.96 Mar'25 19903.42 in **Table No.02**. 16838.06 Avg. Necessary agreement of water supply is made with GIDC Agreement of water supply is made with GIDC on

06.12.2006, 24.12.2016 and 03.07.2019, details are as under;

	Following are the GIDC offer cur	n allotment letter details.
	1) Letter No.	GIDC/POJ/MKT/GRASIM/575 Dated 06 th December-2006
	Agreement for Water Supply	15.60 MLD
	Effluent Discharge	12.48 MLD
	2) Letter No.	GIDC/SE/CG//BRH/1236
		Dated 29th December-2016
	Agreement for Water Supply	25.00 MLD
	Effluent Discharge	19.40 MLD
	3) Letter No.	GIDC/BRH/WS/494
		Dated 3rd.July,2019
	Agreement for Water Supply	35.00 MLD
	Effluent Discharge	23.00 MLD
at will be installed with	A full-fledged Effluent Treatm	ent Plant is installed having

Primary and Secondary treatment facilities based on extended aeration activated sludge process.

A full-fledged Effluent Treatment Plant will be installed with | A full-fledged Effluent Treatment Plant is installed having Primary and Secondary treatment facility based on extended aeration activated sludge process. Effluent Treatment Plant consist of following major equipment;

- 1. Grit Chamber 2 Nos
- 2. Primary Clarifier 2 Nos
- 3. Biological Reactor 7 aeration Lagoons
- 4. Secondary Clarifier 2 Nos
- 5. Treated Effluent RO 14 MLD Capacity

Treated effluent quality will be maintained as per the standards prescribed by CPCB/GPCB. After treatment treated effluent will be disposed off in Gulf of Khambhat vis pipeline already laid by GIDC.

Industry has ensured that the treated effluent quality meets the norms prescribed by GPCB. Analysis of treated effluent is carried out monthly by NABL accredited lab M/s. Unistar Environment and Research Lab.

Monitoring results for reporting period Oct'24 to Mar'25 are summarized in Table No.3

After treatment, treated effluent is pumped to GIDC effluent collection station, Vilayat, from where it is pumped & disposed in Gulf of Khambhat by GIDC.

Table	No.3
Third Party Lab Details: -	
Agency: - Unistar Environment & Research lab Pvt. Ltd	NABL: - NABL Certificate Number TC-7753
Address: -GIDC, Char Rasta, Vapi	

		FINAL TREATED EFFLUENT																											
Month	рН	Temp.	TSS	Oil & Grea se	Pheno lic Comp	Cyani de	Fluori de	Sulphi de	Amm. Nas N	Total Kzeld Nit. (TKN)	Nitrate Nitrogen	Total Res Cl2	Arse nic	Trivalent Chromium	Hexaval ent Chrom	Cu	Pb	Hg	Ni	Zn	Cd	BOD	COD	_	Vana dium	Mn	Iron	Bio Assay- 96 Hrs. fish	Toxicity Test - 96 Hrs. fish
Unit	-	deg C	mg/lit	mg/lit	mg/lit	mg/lit	mg/lit	mg/lit	mg/lit	mg/lit	mg/lit	mg/lit	mg/lit	mg/lit	mg/lit	mg/lit	mg/lit	mg/lit	mg/lit	mg/lit	mg/lit	mg/lit	mg/lit	mg/lit	mg/lit	mg/lit	mg/lit	mg/lit	mg/lit
Limit	06-09		100	10	5	0.2	15	5	50	50	50	1	0.2	2	0.1	3	0.1	0.01	3	15	0.05	100	250	0.05	0.2	2	3	90%	90%
Oct-24	7.70	30.00	20.00	BDL	BDL	BDL	1.10	BDL	2.80	5.20	0.40	BDL	BDL	BDL	BDL	0.10	BDL	BDL	0.16	0.16	BDL	60.00	190.20	BDL	BDL	0.32	0.33	Complied	Complied
Nov-24	7.77	30.00	28.00	BDL	0.40	BDL	0.29	BDL	BDL	4.60	1.20	0.70	BDL	BDL	BDL	0.09	BDL	BDL	0.14	0.14	BDL	58.00	156.70	BDL	BDL	0.29	0.27	Complied	Complied
Dec-24	7.84	30.00	32.00	BDL	0.67	BDL	1.23	BDL	2.20	2.50	0.70	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.12	0.05	BDL	62.00	210.80	BDL	BDL	BDL	2.92	Complied	Complied
Jan-25	6.99	28.00	28.00	BDL	0.72	BDL	1.21	BDL	2.20	2.80	1.00	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.11	0.06	BDL	56.00	204.40	BDL	BDL	BDL	3.27	Complied	Complied
Feb-25	7.57	30.00	20.00	BDL	BDL	BDL	0.99	BDL	BDL	2.30	0.90	BDL	BDL	BDL	BDL	0.07	BDL	BDL	0.13	0.12	BDL	62.00	210.00	BDL	BDL	0.19	1.55	Complied	Complied
Mar-25	7.48	30.00	24.00	BDL	BDL	BDL	1.33	BDL	BDL	2.40	0.20	BDL	BDL	BDL	BDL	0.09	BDL	BDL	0.12	0.12	BDL	46.00	160.50	BDL	BDL	BDL	BDL	Complied	Complied
Min	6.99	28.00	20.00	BDL	BDL	BDL	0.29	BDL	BDL	2.30	0.20	BDL	BDL	BDL	BDL	0.07	BDL	BDL	0.11	0.05	BDL	46.00	156.70	BDL	BDL	BDL	BDL	Complied	Complied
Max	7.84	30.00	32.00	BDL	0.72	BDL	1.33	BDL	2.80	5.20	1.20	0.70	BDL	BDL	BDL	0.10	BDL	BDL	0.16	0.16	BDL	62.00	210.80	BDL	BDL	0.32	3.27	Complied	Complied
Avg.	7.56	29.67	25.33	BDL	0.60	BDL	1.03	BDL	2.40	3.30	0.73	0.70	BDL	BDL	BDL	0.09	BDL	BDL	0.13	0.11	BDL	57.33	188.77	BDL	BDL	0.27	1.67	Complied	Complied

5	The main source	of Air pollution will be CS2 plant, Viscose plant,	
	Sulphuric Acid pla	ant and Coal based captive power plant. The	
	proposed pollution	n control equipment is:	
		Carbon disulphide recovery system	CS2 Recovery system using condensation route is installed in spinning section for all lines.
		Oil scrubbing system for recovery of CS ₂	In order to further reduce the emissions, we have installed
		Water/ chilled water condensers	latest technology Carbon Adsorption Plant (CAP) in place of
	CS2 Plant	Brine condensers	earlier CS2 Genosorb plant. Emissions are reduced due to
			increase in CS2 recovery from exhaust gases before
			releasing from chimney.
		Klaus kiln for CS2 plant	Klaus kiln for CS2 plant is installed.
		The stack of 175m shall be provided to reduce	The stack of 175m has been provided to reduce GLC of CS2
		GLC of CS2 & H2S	& H2S from VSF plant.
		Dust extraction cum Venturi scrubbing System	Not applicable, As CS2 is being manufactured by using
		for CS2 Furnace	natural gas instead of charcoal.
	Acid Plant	Gas scrubbing system for tail gases	Caustic Scrubber is installed
	710101110110	Mist eliminators	Mist eliminators are provided in acid tower
	Power plant	Electrostatic Precipitator (ESP) in power plant	Electrostatic Precipitator (ESP) in captive power plant along
	l coron promo	along with 100 m height stack	with 125 m height stack is installed.
		Ash Handling plant	Ash Handling Plant is installed.
	Auxiliary section	Cyclone	Cyclones are installed
	-	Water scrubbers	Venturi water scrubbers are Installed
		on process of Cellulose from Viscose in Spinning	A powerful exhaust system is provided on all spinning
		H2S will be liberated. The liberated CS2 and H2S	machines. Extracted CS2 and H2S is taken in H2S Scrubbing
6	through chimney.	through powerful exhaust system and discharge	Plant for recovery of Sulphur from H2S and then CAP for
	tillough chilliney.		further recovery of CS2. After recovery, remaining gases are
			discharged through 175-meter-high Chimney for proper
			dispersion.
	The part of libera	ted fugitive emission in work zone area will be	Exhaust system at Spinning Machine is designed to control
	· ·	odified exhaust system, motorized curtain in	maximum fugitive emission. Motorized shutters are
		Air curtain at stretch & feed rollers and modified	provided at Spinning machine, powerful bottom exhaust
	bottom exhaust.		system is installed to minimize the fugitive emission in work
			zone.
Ь	l .		

7 Spent Catalyst (2.5 MT/year), Spent resin from DM plant (4MT/year) and Sulphur sludge will be disposed of through common TSDF and used oil will be sold to CPCB registered recyclers. Fly ash will be disposed off as per fly ash Notification 2003 and used for brick/cement manufacturing.

Industry has taken membership of Common TSDF **M/s. Bharuch Enviro Infrastructure Limited** (Membership No. OTH/474) & **M/s. Safe Enviro Private Limited** (Membership No. 103910) for disposal of Hazardous waste. Detail of hazardous waste disposal during reporting period (Oct'24 to Mar'25) is summarized in **Table No.4.**

		Table No	. 4	
Name of Waste	CCA Quantity	Disposal Quantity (MT)	Disposal	Agency
	(MT/Year)	(Oct-24 to Mar-25)	Pathway	
Spent Catalyst	15.00	2.44	Landfill	TSDF, M/s BEIL Infrastructure Limited
Used Oil	27.50	26.81	Recycling	M/s. I Engineering World, M/s. RK Steel, M/s. S.B.
				Lubricants & M/s. Fine Refiners Pvt Ltd.

Note:

- 1. Sulphur De-ashing sludge is not generated as Industry has installed natural gas based CS2 plant.
- 2. Industry has installed 30 MW captive power plant after receiving environment clearance issued on 15.01.2018. Fly ash generated from CPP is sold to authorized cement & brick manufacturers along with compliance of all other provisions of fly ash Notification 2003 as amended up to date.

24th -26th October 2007 considered the proposal. All Man Made Fibres (Rayon) manufacturing units are listed at Sl. No. 5(d) of schedule of EIA notification 2006 under category A, hence appraisal is at Central level. Since the project located at GIDC Notified industrial estate, Vilayat, Vagra, it does not need public consultation as per Para 7(i) III, stage (3) b. – Public Consultation of EIA Notification, 2006

Based on information submitted by the project authorities, the

The expert appraisal committee (Industry) in its 73rd meeting held on

Acknowledged, Industry is setup on Plot No.1, GIDC Industrial Estate Vilayat, Tal- Vagra, Dist. Bharuch

Based on information submitted by the project authorities, the Ministry of Environment and Forests hereby accords environmental clearance to the above project under the provisions of EIA notification 2006 subject to the compliance of following Specific and General conditions.

Acknowledged, the compliance status of Specific and General conditions is as below;

A. **Specific Condition:** -

Α.	Specific Condition		<u> </u>	
Sr.	Stipulation	Compliance S	Status	
1	The project authorities shall maintain emission limit of 50 kg / Ton of VSF for CS2.	Industry has adopted control measure manufacturing to achieve emission le norms. CS2 Emission monitoring is done on monthly basis. CS2 emission results for is summarized in Table No.05 Table No.0 NABL Laboratory Details	es for CS level far e by NABL r reporting	below the stipulated accredited laboratory
		Agency: - Unistar Environment & Research lab Pvt. Ltd Address: - Near GIDC, Char Rasta, Vapi NABL: - NABL Certificate Number TC- 7753 Details of instrument Used for Monitoring: - Instrument Name: - Handy Sampler Instrument ID: - UERL/AIR/HS/03 Serial No.: - 91-I-19 Calibration Date: - 02.02.2025 Expiry Date: - 01.02.2026 At no time, the emission exceeded (Refer Table No.05)	Oct'24 Nov'24 Dec'24 Jan'25 Feb'25 Mar'25 Min Max Avg.	11.20 10.70 11.40 11.10 11.70 12.80 10.70 12.80 11.48
2	A guard/polishing pond shall be provided before discharge of treated waste water into GIDC pipeline for discharge into sea and TOC should be continually monitored.	Three guard/polishing ponds are constant capacity of 25000 m3. Total holding capacity of 25000 m3. Total holding capacity of storage of treated effluent is discharged into sea through A TOC Meter is installed for continuous effluent.	capacity is uent aro h GIDC pi	s 75,000 m3, which is und 72 hrs. Treated peline.

	T							
3	The project authorities shall install at least 11 multiple effect	-			= -	city (less specific		
	evaporators to achieve higher than 65% recovery of Sodium	steam consumption) 14 stage multiple effect evaporator (MEE). Total installed						
	Sulphate.	evaporation capacity is 280 m3/hr. Post expansion & increase in production						
		capacity in E	C, additional 1	0 nos. are bein	g installed with	16 stage multiple		
		effect evapor	ator. Total inst	alled evaporation	on capacity is 350	m3/hr.		
4	Electrostatic Precipitators (ESP's) to power plant boiler shall	Electrostatic	Precipitators (E	SP's) to power	plant boiler has	been provided to		
	be provided to control particulate matter.	control partic	culate matter.	, .	•	·		
	3-stage condensing system for recovery of CS2	3 stage cond	lensing system	for CS2 recov	ery is provided.			
	Scrubber to Acid plant chimney	Alkali scrubb	er has been in	stalled at Acid	Plant chimney.			
	klaus kiln recovery system to recover Sulphur from CS2 plant	Klaus kiln re	covery system	n has been ins	talled for recov	er Sulphur from		
	gases, followed by lime water absorber shall be provided	CS2 plant ga	ses. Klaus kiln	Systems recov	ers > 96% Sulph	ur and tail gases		
		is passed thr	ough alkali sci	ubber before	discharge from s	stack.		
5	Monitoring arrangement shall be provided with the	Monitoring	arrangements	are provided f	or scrubbers & c	condenser vents.		
	scrubber & condenser vents and shall be monitored	Following a	re the details	tabulated as	Table No.07			
	monthly.			Table No.0)7			
		Month	CS2	Plant	Acid Plant-1	Acid Plant-2		
					SO2	SO2		
		Unit	CS2 (mg/nm3)	H2S (mg/nm3)	(Kg/T of Acid)	(Kg/T of Acid)		
		GPCB limit	180	45	1.5	1.5		
		Oct'24	BDL	BDL	0.96	1.05		
		Nov'24	BDL	BDL	1.12	1.18		
		Dec'24	BDL	BDL	1.15	0.90		
		Jan'25	BDL	BDL	1.12	1.24		
		Feb'25	BDL	BDL	1.20	1.30		
		Mar'25	BDL	BDL	0.90	1.10		
		Min	BDL	BDL	0.90	0.90		
		Max	BDL	BDL	1.20	1.30		
		Average	BDL	BDL	1.08	1.13		
		Note: At no	time, the em	ission exceed	ed the prescribe	ed limits.		
		(Refer Table	No.07)					
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	EC Compliance Report shall be submitted to Ministry's	Rep	ports are regularly submitte	ed to Min	istry's region	al office, Bho			
	regional office, Bhopal, CPCB & GPCB	CPO	CB & GPCB with compliance	report eve	ery six months	. Last complia			
		rep	ort submitted on 29.11.202	24.					
	The technology employed shall achieve standards notified by the Ministry for the Rayon Industry vide Gazette		ustry has installed state of t			· .			
	Notification no. 195, dated 16th Oct-2006, other than CS2.	standards notified time to time for Rayon Industry by Ministry of Environment, Forest and Climate change.							
	The Company shall monitor CS2 & H2S regularly and submit	CS2	2 & H2S is being monitored r	egularly. N	Monitoring de	tails for report			
	data on the emission levels to the Ministry and its Regional	per	riod from Oct'24 to Mar'25	is tabulat	ed in Table N	o.08. Monito			
	office at Bhopal, GPCB and CPCB.	results are regularly submitted to Ministry Regional office, Bhopa							
		GP	GPCB and CPCB along with six monthly compliance report.						
			J	•	•	•			
			Table No.08						
				Month	CS2	H2S			
			NABL Laboratory Details	WIOIILII	(kg/T of VSF)	(kg/T of VSF)			
			NADE LABORATORY Details	CCA Norms>	95	30			
			Agency: - Unistar Environment &	Oct'24	11.20	1.90			
			Agency: - Unistar Environment & Research lab Pvt. Ltd	Nov'24	10.70	1.60			
			Address: - Near GIDC, Char Rasta,	Dec'24	11.40	1.90			
			Vapi	Jan'25	11.10	2.20			
			NABL: - NABL Certificate Number TC-	Feb'25	11.70	2.00			
			7753 Details of instrument Used for	Mar'25	12.80	3.10			
			Monitoring: -	Min	10.70	1.60			
			Instrument Name: - Handy Sampler	Max	12.80	3.10			
			Instrument ID: - UERL/AIR/HS/03 Serial No.: - 91-I-19 Calibration Date: - 02.02.2025 Expiry Date: - 01.02.2026	Avg.	11.48	2.12			
			Note: At no time, the emission exceeded the prescribed limits.						
			(Refer Table No.08)						
	Provision shall be made for retrofit additional equipment if necessary in future.	· · · · · · · · · · · · · · · · · · ·							

		CS2.		
7	The effluent should be treated in ETP having primary & secondary treatment facilities and treated effluent should meet the standards to be prescribed by the GPCB or under E. P. Act-1986 whichever are more stringent	A full-fledge and Seconda activated slumajor equipments. 1. Grit Co. Prima 3. Biolog 4. Seconda 5. Treated efflue prescribed by	ary treatme udge proces ment; Chamber – 2 ary Clarifier - gical Reacto ndary Clarifie ed Effluent I ent quality is r GPCB. Treate	– 2 Nos r - 7 aeration Lagoons
	Total quantity of effluent should not exceed 60m3/ ton of production. The production shall be regulated to match the permitted discharge quantity by GIDC/GPCB.	Table Effluent I	No.10 Discharge (day) Average 12480.10 12249.85 12612.48 12570.59 12966.61 12855.81	The quantity of effluent discharged is 11.04 m3/Ton of Fibre against stipulation of 60m3/TF. Avg. water Intake: 16838.06 m3/day Effluent discharge: 12622.57 m3/day Details of effluent discharge for reporting period are tabulated in Table No.10

Agency: - Unistar Environment & Research lab Pvt. Ltd

Address: -GIDC, Char Rasta, Vapi

NABL: - NABL Certificate Number TC-7753

	Table No.09																												
		FINAL TREATED EFFLUENT																											
Month	рН	Temp.	TSS	Oil & Grea se	Pheno lic Comp	Cyani de	Fluori de	Sulphi de	Amm. Nas N	Total Kzeld Nit. (TKN)	Nitrate Nitrogen	Total Res Cl2	Arse nic	Trivalent Chromium	Hexaval ent Chrom	Cu	Pb	Hg	Ni	Zn	Cd	BOD	COD		Vana dium	Mn	Iron	Bio Assay- 96 Hrs. fish	Toxicity Test - 96 Hrs. fish
Unit	-	deg C	mg/lit	mg/lit	mg/lit	mg/lit	mg/lit	mg/lit	mg/lit	mg/lit	mg/lit	mg/lit	mg/lit	mg/lit	mg/lit	mg/lit	mg/lit	mg/lit	mg/lit	mg/lit	mg/lit	mg/lit	mg/lit	mg/lit	mg/lit	mg/lit	mg/lit	mg/lit	mg/lit
Limit	06-09		100	10	5	0.2	15	5	50	50	50	1	0.2	2	0.1	3	0.1	0.01	3	15	0.05	100	250	0.05	0.2	2	3	90%	90%
Oct-24	7.70	30.00	20.00	BDL	BDL	BDL	1.10	BDL	2.80	5.20	0.40	BDL	BDL	BDL	BDL	0.10	BDL	BDL	0.16	0.16	BDL	60.00	190.20	BDL	BDL	0.32	0.33	Complied	Complied
Nov-24	7.77	30.00	28.00	BDL	0.40	BDL	0.29	BDL	BDL	4.60	1.20	0.70	BDL	BDL	BDL	0.09	BDL	BDL	0.14	0.14	BDL	58.00	156.70	BDL	BDL	0.29	0.27	Complied	Complied
Dec-24	7.84	30.00	32.00	BDL	0.67	BDL	1.23	BDL	2.20	2.50	0.70	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.12	0.05	BDL	62.00	210.80	BDL	BDL	BDL	2.92	Complied	Complied
Jan-25	6.99	28.00	28.00	BDL	0.72	BDL	1.21	BDL	2.20	2.80	1.00	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.11	0.06	BDL	56.00	204.40	BDL	BDL	BDL	3.27	Complied	Complied
Feb-25	7.57	30.00	20.00	BDL	BDL	BDL	0.99	BDL	BDL	2.30	0.90	BDL	BDL	BDL	BDL	0.07	BDL	BDL	0.13	0.12	BDL	62.00	210.00	BDL	BDL	0.19	1.55	Complied	Complied
Mar-25	7.48	30.00	24.00	BDL	BDL	BDL	1.33	BDL	BDL	2.40	0.20	BDL	BDL	BDL	BDL	0.09	BDL	BDL	0.12	0.12	BDL	46.00	160.50	BDL	BDL	BDL	BDL	Complied	Complied
Min	6.99	28.00	20.00	BDL	BDL	BDL	0.29	BDL	BDL	2.30	0.20	BDL	BDL	BDL	BDL	0.07	BDL	BDL	0.11	0.05	BDL	46.00	156.70	BDL	BDL	BDL	BDL	Complied	Complied
Max	7.84	30.00	32.00	BDL	0.72	BDL	1.33	BDL	2.80	5.20	1.20	0.70	BDL	BDL	BDL	0.10	BDL	BDL	0.16	0.16	BDL	62.00	210.80	BDL	BDL	0.32	3.27	Complied	Complied
Δνσ	7 56	29 67	25 33	BDI	0.60	BDI	1.03	BDI	2 40	3 30	0.73	0.70	RDI	BDI	BDI	0.09	BDI	BDI	0 13	0 11	BDI	57 33	188 77	BDI	BDI	0.27	1 67	Complied	Complied

Note: All parameters are well below the prescribed norms (Kindly refer above Table No.09)

The project authorities shall produce the copy of agreement with GIDC for discharge of treated wastewater to the Ministry and its Regional office within three months and submit the same to the Ministry / Regional office

Agreement done with GIDC for supply of water and discharge of treated effluent through GIDC pipeline to deep see is done.

A Copy of same was submitted along with earlier six-monthly compliance report to MoEF & CC.

Following are the GIDC offer cum allotment letter details;

1) Letter No.	GIDC/POJ/MKT/GRASIM/575
	Dated 06 th December-2006
Agreement for Water Supply	15.60 MLD
Effluent Discharge	12.48 MLD
2) Letter No.	GIDC/SE/CG//BRH/1236
	Dated 29 th December-2016
Agreement for Water Supply	25.00 MLD
Effluent Discharge	19.40 MLD
3) Letter No.	GIDC/BRH/WS/494
	Dated 3rd.July,2019
Agreement for Water Supply	35.00 MLD
Effluent Discharge	23.00 MLD

9	The project authorities shall take up the in-house or through IIT's	In house research / studies done and steps taken to further reduce the
	research studies for further reduction of CS2 emission below 50 Kg/	CS2 emission level are as under:
	Ton of production of VSF within three months and submit the same	1) Best Available Technology based Carbon Absorption Plant (CAP) is
	to Regional office.	installed for recovery of CS2. (Brief Details of the technology is
		enclosed as Annexure-1
		2) Natural Gas based CS2 plant installed in place of conventional
		charcoal process to avoid CS2 emission from CS2 plant.
10	The industry shall measure ambient air quality for CS2, and H2S at	4 nos. of ambient air quality monitoring stations covering all four
	the 3 ambient air quality monitoring stations set up in consultation	directions are placed in consultation with the GPCB. Ambient air quality
	with the GPCB to ensure CS2 and H2S emission not exceed 100	monitoring is being done regularly for CS2 & H2S emission. CS2 & H2S
	microgram/m3 and 150 microgram/m3 respectively.	concentration is well within the prescribed standards. Summary of six
		month (Oct-24 – Mar-25) monitoring results is tabulated below in Table
		No. 11.

Agency: - Unistar Environment & Research Lab Pvt. Ltd

Instrument ID & Name: - 1) UERL/AIR/RDS/02— Respirable Dust Sampler (RDS: SR. No. 160203106) (Calibration Period: - 03.08.2024 – 02.08.2025)

2) UERL/AIR/FPS/08- Fine Particulate Sampler (FPS: SR. No. 160402021) (Calibration Period: - 03.08.2024 - 02.08.2025)

Table No. 11 (UOM - microgram/m3)

Table No. 11 (OOM - Inicrogram/Inis)									
Month	ETP MO	CC Room	ER C	office	Aluminum C	hloride plant	Security Gate (CA Plant)		
WIGHT	H₂S	CS ₂	H₂S	CS ₂	H₂S	CS ₂	H₂S	CS ₂	
Norms>	150	100	150	100	150	100	150	100	
Oct'24	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	
Nov'24	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	
Dec'24	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	
Jan'25	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	
Feb'25	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	
Mar'25	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	
Min	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	
Max	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	
Avg.	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	

At no time, the emission exceeded the prescribed limits. (Refer Table No.11)

11	The Solid & I	Hazardous w	aste shall b	e segregate	ed according	to its	The solid a	and hazardo	us waste	is segre	gated base	d on its			
	calorific cont	ents and sto	red separate	ely for treat	ment and di	sposal	properties and Treatment & Disposal is done accordingly. Industry								
							has taken membership of the common TSDF BEIL, Dahej & SEPL,								
							Dahej having facility of incineration and landfill. Waste disposal is								
							being done as per the procedure laid down by CPCB and GPCB.								
								Waste disposal detail is tabulated in Table No. 12 .							
l					Tab	le No. 1	12								
	Chemical slu	udge-ETP (MT)	Used C	Dil (MT)	PVC bags/Lir	ners (MT)	Bio Sludge	from ETP (MT)	Spent Cata	lyst (MT)	Spent Re	sin (MT)			
Month	h Category - 35.3 Category - 5.1 Category - 33.1		Categ	ory – 35.3	Category	ı — 17.2	Categor	y – 35.2							
	Generation Disposal Generation Disposal Generation Disposa		al Generation	Disposal	Generation	Disposal	Generation	Disposal							
CC&A Qty.	20000 MT 25KL or 27.50 MT 160 MT				150	000 MT	15.0	MT	12.0 MT						
Oct'24	2000.00	1903.40	0.00	0.00	2.91	2.91	200.00	235.79	0.00	0.00	0.00	0.00			
Nov'2	1900.00	1845.60	1.68	1.68	6.96	6.96	500.00	698.76	0.00	0.00	0.00	0.00			
Dec'24	2000.00	2145.90	0.00	0.00	1.06	1.06	700.00	895.02	2.44	2.44	0.00	0.00			
Jan'25		1309.60	0.00	0.00	6.05	6.05	1100.00	1435.95	0.00	0.00	0.00	0.00			
Feb'25		1347.80	0.00	0.00	14.59	14.59		1358.14	0.00	0.00	0.00	0.00			
Mar'2	5 2100.00	1384.70	2.70	2.70	4.73	4.73	500.00	77.17	0.00	0.00	0.00	0.00			
Total	12500.00	9937.00	4.38	4.38	36.30	36.30	4400.00	4700.83	2.44	2.44	0.00	0.00			
Dispos Pathwa		zation	Recy	cling	Recycl	ling	La	nd Fill	Land	Fill	Incineration				
Dispose To=>	I K Ulitrat	ech Cement		uthorized clers	Sold to aut Recycl		ed TSDF BEIL & SEPL TSDF BEIL Dahej TSDF BEIL Dahej								
12	Fly Ash gener	rated from C	PP shall be ι	utilize as pe	r fly ash		, .	erated from	•	•					
	notification 1	.999 and sub	sequent am	endment ir	າ 2003.			ufacturers. l		•	•				
							report annua & SPCB.	Illy and the sa	me is being	g submitt	ed to MOEF	CC, CPCB			
13	Green belt of	adequate w	idth and de	nsity shall b	e developed	lin	Industry has	developed gr	eenbelt, in	open sp	ace area an	d around			
	150 Acres ou		-	_	ite the effect	of	factory comp	olex along the	e boundary	wall. To	otal 1,07,50	00 nos. of			
	fugitive emiss		•				plants have been planted till Mar-2025. Existing plantation details								
	The developr additional ro	_	_		=		and proposed plan is tabulated in Table No.13								

in consultation with the local DFO as per the CPCB guideline

				Table No. 13	
		Sr.	Duration	Area (Acre.) for	Number of Plant
		No		Plantation	
		1	Existing	31	37,500 Plants
			(Till FY; 2017-18)		
		2	2018-19	10	10,000 Plants
		3	2019-20	10	10,000 Plants
		4	2020-21	10	10,000 Plants
		5	2021-22	10	10,000 Plants
		6	2022-23	10	10,000 Plants
		7	2023-24	10	10,000 Plants
		8	2024-25	10	10,000 Plants
			Total=>	101	1,07,500 Plants
		with P & NO	Plant species for x) tolerant speci	odor managem	roposed plant species along ent, Gaseous emission (SO2 s Annexure-2. Plant species PCB & DFO.
14	The project proponent shall comply with the environmental protection measures and safeguards recommended in the EIA/EMP	comm 170.5	nitted in the EIA, Crores and re	/EMP, Unit has b ecurring cost R	res as mentioned in EC. As een allocated capital cost Rs. s. 15.5 Crores per annum vironmental pollution control

measures as per condition stipulated by the MoEF & CC & GPCB. Detailed EIA/EMP report is explained below & Capex — Opex

Details are tabulated under Table No. 14.

	Table No. 14										
	Fund Utilize for environmental Management are under (Rs. In Crore)										
Sr. No.	Particular	Capex	Opex FY-17	Opex FY-18	Opex FY-19	Opex FY-20	Opex FY-21	Opex FY-22	Opex FY-23	Opex FY-24	Opex FY-25
1	Effluent Treatment	79.00	11.50	10.56	11.00	11.00	13.35	14.85	35.60	38.63	30.67
2	Air Pollution Control (Including H2S Scrubbing Plant & CAP Plant)	472.00	03.50	04.00	03.30	05.17	14.35	14.23	162.85	150.80	118.38
3	Green Belt Development	00.50	00.50	00.55	01.30	0.51	0.13	0.08	1.09	3.83	1.20
4	Waste Management	01.50	00.50	00.60	01.60	3.07	2.90	1.78	4.37	2.97	2.98
To	otal Amount (In Crore) =>	552.79	16.00	15.71	17.20	19.75	30.73	30.94	203.91	196.23	153.23

Environmental monitoring Program: - In order to ensure that the predicted impact levels are within the acceptable limits and to further mitigate the impacts wherever possible from proposed facilities, following monitoring programs are undertaken;

Air Environment: Air quality surveillance program which includes;

- 1. Monitoring of air quality of all 4 stacks for CS2, H2S, PM, SO2 & NOx by our Lab as well as 3rd party Lab.
- 2. Ground level concentration is monitored for CS2, H2S, PM, SO2 & NOx in the impact zone as a part of ambient air monitoring by our Lab & 3rd party Lab.
- 3. Port holes and sampling facilities are provided in each stack as per CPCB guidelines, periodic performance evaluation of control measures & equipment's are done

Noise Environment: Noise generated sources are regularly monitored, ambient noise level is being monitored on quarterly basis inside & outside of plant area and strictly adhered the Factory Act norms of workroom and ambient levels as per E P Act.

Water Environment: For effective environmental pollution control the following measures are taken;

- 1. Daily monitoring of treated effluent in our Lab as well as third party monitoring by outside labs.
- 2. Evaluation of ETP performance is done regularly, based on the results of treated effluent.
- 3. Treated sewage is 100% used in green belt, sewage quantity is very less as only plant sewage comes to STP.
- 4. 3 nos. of guard ponds, each of (L: 90 m, B: 60 m, SWD: 6.5m) equivalent to 75,000m3 capacity installed, which is suitable for storage upto 72 hrs. treated effluent to meet the emergency situation in discharge of treated effluent through GIDC pipeline
- 5. Water conservation measures are taken and achieved very less discharge of treated effluent.

Land Environment: Following measures are taken to avoid adverse impacts on biological activities;

- 1. All precautions are taken to avoid any spillages on ground.
- 2. A record of Solid & Hazardous waste is maintained & monitored regularly by Env. Cell
- 3. Waste is categorized based on CC&A by GPCB. Hazardous waste is stored separately and disposed as per GPCB guidelines through online Manifest.
- 4. Green belt development program is undertaken which will be continued to cover > 33% area as green belt.

Biological Environment: Following measures are taken to avoid adverse impacts on biological activities;

1. Survival rate of planted trees are closely monitored. New saplings are planted in place of dead saplings as per guideline which is closely monitored by Horticulture department.

15	The project authorities shall obtain the membership of TSDF and waste water disposal facility and copy of the same shall be submitted to the GPCB and Ministry's regional office at Bhopal within three months.	Industry has obtained membership of common TSDF, BEIL, Bharuch for disposal of hazardous waste. Details are as under; TSDF Name: - Bharuch Enviro Infrastructure Limited, Dahej. Ref: -BEIL/ANK/2022, Membership No. OTH/474 Membership Qty: - 8000 Ton/Annum
		TSDF Name: - Safe Enviro Pvt Ltd, Membership No. 103910 Membership Qty: - 5000 Ton/Annum Industry has taken permission / membership of GIDC pipeline network for disposal of treated effluent.
16	Occupational health surveillance of the workers shall be carried out on a regular basis and records shall be maintained as per the factories Act.	We have established an Occupational Health Center (OHC). Routine periodical medical examinations for all employees are carried out twice in a year. Any employee found with some deviation in health parameter is counselled for health improvement on next day and followed up till deviated parameter is normal. At present, no employee is living with deviated uncontrolled disease. Details of test conducted and numbers of employee covered is summarized in Table No. 15 .

Table No. 15									
Total Employees		1430							
System	Numb	er of employ	ees/	Reference used to mark for deviation					
	Normal	Abnormal	Total	Reference Value					
Cardiovascular System									
Pulse Rate	1404	26	1430	>100/min					
Blood Pressure	1381	49	1430	>160/100					
ECG	1413	17	1430	Various Parameters in ECG Report					
Systemic Examination	1430	0	1430	Physical Examination (Inspection, Palpation and Auscultation)					
Respiratory System									
Systemic Examination	1430	0	1430	Physical Examination (Inspection, Palpation and Auscultation)					
Pulmonary Function Test	1430	0	1430	PFT Report Review					

Central Nervous System				
	1430	0	1430	Various Parameters (Sensory and Motor system including reflexes)
Liver Function Test				
SGPT	1419	11	1430	>100
SGOT	1428	2	1430	>100
Total Bilirubin	1426	4	1430	>1.0
Kidney Function Test				
S. Creatinine	1428	2	1430	>1.4mg%
Blood Urea	1423	7	1430	>45mg%
Urine Routine and Microscopy testing	1427	3	1430	Urine R&M Report
Hearing Test				
Ear Examination	1430	0	1430	Physical Examination of ear
Audiometry	1430	0	1430	Review of SPL at various frequencies
Metabolism				
Random Blood Sugar	1428	2	1430	>160mg%
HbA1c	1429	1	1430	>7.0
Complete Blood Count	1429	1	1430	CBC & Smear Report
S. Uric Acid	1409	21	1430	>7.5 mg%
Lipid Profile	1302	128	1430	>240mg%
Vision Test				
Distant Vision	1401	29	1430	>6/18 in one eye
Near Vision	1415	15	1430	>N8 in one eye
Color Vision	1424	6	1430	< 18 plates out of 38

17	The project authorities shall take up all out efforts to protect the	Regular monitoring of water and air quality is carried out by the in-
	water bodies and biodiversity around the plant.	house Environmental Laboratory established by the industry, as well
		as by a third-party NABL-accredited laboratory. There is only one

		water body namely "Bhooki Khadi"" which is approximately 500 m from boundary wall. Water from this is being used for irrigation and cattle feeding by nearby villages.
crop pattern around	nism for water / air quality, production & the plant shall be adopted and comparative orted annually to the Ministries Regional	Monitoring of water quality, air quality, and production parameters is conducted on a regular basis and compared against baseline data. The findings are submitted to the Ministry's Regional Office on a sixmonthly basis and to the Gujarat Pollution Control Board (GPCB) on a monthly basis.

B. General Condition: -

	The project authorities shall strictly adhere to the stipulations of	Industry is complying all the stipulations of GPCB / state government. GPGB
I)	the SPCB/State Government or any statutory body.	has granted Common Consent and Authorization (CCA) to industry which is
		valid up to 23/03/2029.
	No expansion or modifications in the plant shall be carried out	No expansion or modification is done in industry without prior permission of
II)	without prior approval of the Ministry of Environment and Forests. In case of deviations or alterations in the project	Ministry. Expansion is done with following prior permission / clearance.
	proposal from those submitted to the Ministry for clearance, a fresh reference shall be made to the Ministry to access the	Environment Clearance No. F. No. J-11011/321/2016-IA-II(I) Pt dated
	adequacy of conditions imposed and to add additional	15.01.2018
	environmental protection measures required, if any.	Environment Clearance No. F. No. J-11011/321/2016-IA II (I) dated 16.08.2018
		Environment Clearance No. F. No. J-11011/321/2016-IAII(I) dated 17.10.2019
III)	The gaseous emission (SO2, NOx, H ₂ S & CS ₂) and Particulate	Gaseous emissions are monitored regularly, and the results conform to the
	Matter along with RSPM levels from various process units shall	standards prescribed by both the Gujarat Pollution Control Board (GPCB) and
	confirm to the standards prescribed by the concerned	the Central Pollution Control Board (CPCB). Laboratory results for the reporting
	authorities from time to time.	period from October 2024 to March 2025 are summarized in the Table No. 16
	In the event of failure of any pollution control system adopted	and in Table No. 17 below. Industry has developed Controls to put off the
	by the unit, the unit shall be immediately put of the operation	operations in case of failures of any pollution control devices and operations
	and shall not be restarted until the desired efficiency has been	are not restored until the desired efficiency is achieved.
	achieved	

Table No. 16		
	Month of Sample	CS2 (Kg/Ton of Fibre)
Third Party Lab Details	CCA Norms	95
	Oct'24	11.20
	Nov'24	10.70
Agency: - Unistar Environment & Research	Dec'24	11.40
lab Pvt. Ltd	Jan'25	11.10
Address: - Near GIDC, Char Rasta, Vapi	Feb'25	11.70
NABL: - NABL Certificate Number TC-7753	Mar'25	12.80
Details of instrument Used for	Min	10.70
Monitoring: -	Max	12.80
Instrument Name: - Stack Monitoring Kit Vss1 Instrument ID: - UERL/AIR/HS/03 Serial No.: - 91-I-19 Calibration Date: - 02.02.2025 Expiry Date: - 01.02.2026	Avg.	11.48
At no time, the emission exceeded the press No.16)	cribed limits. (Re	efer Table

Agency: - Unistar Environment & Research Lab Pvt. Ltd

Instrument ID & Name: -1) Respirable Dust Sampler - RDS: SR. No. 160203106 - UERL/AIR/RDS/ 02(Calibration Period: - 03.08.2024 – 02.08.2025)

2) Fine Particulate Sampler - FPS: SR. No. 160402021 - UERL/AIR/FPS/08(Calibration Period: - 03.08.2024 - 02.08.2025)

Table No. 17 (For Ambient Air) μg/m3

			Near ETP I	MCC Room			Near ER Office							
Month	SPM PM10	SPM PM2.5	SO ₂	NO ₂	H₂S	CS₂	SPM PM10	SPM PM2.5	SO ₂	NO ₂	H₂S	CS ₂		
Norms	100	60	80	80	150	100	100	60	80	80	150	100		
Oct'24	57.20	21.50	18.70	21.60	BDL	BDL	60.40	18.70	21.30	25.50	BDL	BDL		
Nov'24	53.80	17.20	19.40	24.80	BDL	BDL	56.50	21.60	18.20	20.40	BDL	BDL		
Dec'24	60.20	24.80	20.10	26.40	BDL	BDL	57.20	22.70	24.20	25.80	BDL	BDL		
Jan'25	56.10	21.50	17.20	21.60	BDL	BDL	50.40	20.10	20.00	24.20	BDL	BDL		
Feb'25	58.40	24.60	19.80	23.10	BDL	BDL	55.70	24.00	21.60	24.40	BDL	BDL		

Mar'25	51.80	23.20	23.20	27.30	BDL	BDL	58.40	24.90	25.10	30.10	BDL	BDL
Min	51.80	17.20	17.20	21.60	BDL	BDL	50.40	18.70	18.20	20.40	BDL	BDL
Max	60.20	24.80	23.20	27.30	BDL	BDL	60.40	24.90	25.10	30.10	BDL	BDL
Average	56.25	22.13	19.73	24.13	BDL	BDL	56.43	22.00	21.73	25.07	BDL	BDL

Note: At no time, the emission exceeded the prescribed limits. (Refer Table No.18)

The location of Ambient Air Quality (AAQ) monitoring stations shall be reviewed in consultation with SPCB and additional shall be installed, if required, in the downwind direction as well as where maximum ground level concentration is anticipated.

The location of Ambient Air Quality (AAQ) monitoring stations have been reviewed in consultation with GPCB and 4 nos. AAQ monitoring stations installed in nearby 4 villages, at Derol, Vilayat, Sarnar and Dayadra within 2-3 kms radius.

Monthly monitoring is being done on monthly by NABL accredited Lab. The Ambient Air quality results for the period of Oct-24 to Mar-25 is tabulated as under **Table No. 18.**

			SARNA	R					DERO	L					DAYAD	RA					VIL	AYAT		
Month	SPM PM10	SPM PM2.5	SO2	NO2	H2S	CS2	SPM PM10	SPM PM2.5	SO2	NO2	H2S	CS2	SPM PM10	SPM PM2.5	SO2	NO2	H2S	CS2	SPM PM10	SPM PM2.5	SO2	NO2	H2S	CS2
			μg/m3	i			μg/m3					μg/m3							μg	/m3				
Norm	100	60	80	80	150	100	100	60	80	80	150	100	100	60	80	80	150	100	100	60	80	80	150	100
Oct-24	59.3	23.8	21.6	24.3	BDL	BDL	53.8	20.0	19.6	24.2	BDL	BDL	62.6	18.6	17.2	19.2	BDL	BDL	55.9	17.3	20.4	21.8	BDL	BDL
Nov-24	55.7	20.6	23.2	26.8	BDL	BDL	51.6	17.1	18.9	21.9	BDL	BDL	60.2	23.8	23.1	26.7	BDL	BDL	58.3	24.2	21.5	25.2	BDL	BDL
Dec-24	60.2	17.2	23.2	28.3	BDL	BDL	56.6	16.6	21.1	25.6	BDL	BDL	52.6	20.5	22.3	27.4	BDL	BDL	53.1	21.7	24.1	29.4	BDL	BDL
Jan-25	56.9	20.9	19.4	21.4	BDL	BDL	55.1	21.3	20.4	21.4	BDL	BDL	54.1	20.5	20.4	23.5	BDL	BDL	51.6	18.7	17.2	20.6	BDL	BDL
Feb-25	56.2	22.3	17.7	20.6	BDL	BDL	55.2	24.8	17.7	23.0	BDL	BDL	58.5	21.6	15.8	17.0	BDL	BDL	52.9	21.6	18.8	20.3	BDL	BDL
Mar-25	60.4	23.3	19.9	21.8	BDL	BDL	54.6	17.1	23.3	24.2	BDL	BDL	51.7	16.0	19.5	23.7	BDL	BDL	57.2	17.6	21.3	25.4	BDL	BDL
Min	55.7	17.2	17.7	20.6	BDL	BDL	51.6	16.6	17.7	21.4	BDL	BDL	51.7	16.0	15.8	17.0	BDL	BDL	51.6	17.3	17.2	20.3	BDL	BDL
Max	60.4	23.8	23.2	28.3	BDL	BDL	56.6	24.8	23.3	25.6	BDL	BDL	62.6	23.8	23.1	27.4	BDL	BDL	58.3	24.2	24.1	29.4	BDL	BDL
Average	58.1	21.4	20.8	23.9	BDL	BDL	54.5	19.5	20.2	23.4	BDL	BDL	56.6	20.2	19.7	22.9	BDL	BDL	54.8	20.2	20.6	23.8	BDL	BDL

Note: All results are in μg/m3 and till date, the emission level has never exceeded prescribed limits. (Refer Table No.18)

NOCC	Note: All results are in µ8/115 and thi date, the emission level has never exceeded prescribed limits. (Neter Table 10:15)									
V)	Dedicated scrubbers and stack of appropriate height as per CPCB guidelines	Dedicated scrubbers and stack of appropriate height as per								
	shall be provided to control the emissions from various stacks/vents.	CPCB guidelines are provided to control the emissions from								
		various stacks/vents. Details are as under;								
		Rayon plant – 175m stack; H2SO4 plant-1 – 50 m stack; H2SO4								
		plant-2 – 60 m stack; CS2 Plant – 100 m stack								
	The scrubber water shall be sent to ETP for further treatment	The scrubber water is routed through ETP for further treatment.								
VI)	All the chemicals / solvents storage tank shall be under negative pressure	All storage tanks are suitably designed to avoid leakages for								

VII)	to avoid any leakages. Breather valve, N2 blanketing and secondary condensers with brine chilling system shall be provided for all the storage tanks to minimize vapor loses. All liquid raw material shall be stored in storage tanks and drums. The company shall undertake following waste minimization measures;	storage under atmospheric conditions. CS2 is stored under water due its volatile nature. Dykes are provided at all chemical storage area as per guidelines to arrest spillages / leaks with Emergency response plan for any such event.
	- Metering & control of quantities of active ingredients to minimize waste	Metering & measurement system are in place. Reduction in wastage is also reflected in specific consumption of chemicals
	- Reuse of by-products from the process as raw material or as RM substitution in other processes	We are recovering Sulphur from H2S gas which is generated during fibre spinning process & reuse it as a raw material for the manufacturing of CS2 & H2SO4.
	- Use of automated filling to minimize spillages	Chemicals such as Caustic, Sodium hypochlorite, Sulphuric acid, Carbon Disulphide is transported through pipelines. Sodium sulphate is bagged through automatic bagging M/c to avoid spillages.
	- Use of "closed feed" system into batch reactors	All chemicals are fed in closed feed system to avoid any spillage.
	- Venting equipment through vapor recovery system	CS2 vapor recovery system is installed at each spinning machine (6 no's) to recover CS2.
VIII)	Fugitive emissions in the work zone environment, product & raw materials storage area shall be regularly monitored. The emissions shall confirm to the limits imposed by SPCB/ CPCB	Fugitive emissions in work zone environment, product and raw material storage area is being monitored by Environmental Lab on regular basis and results are well within stipulated norms. Lab data are tabulated as Table No. 19
	Inst. Calibration done by: - TMS Instrument Name: - Toxirae III (for H2S Measurement) & For CS2 measurement following I Serial No.: - G011236349, Calibration Date: - 13.09.2024, Expiry Date: - 11.09.2025	IS 5182 (Part 20): 1982 method

											Table	NO. T	,											
			Pulp Wa	rehouse	•				Central	Stores					Fibre wa	rehouse	9				Salt Go	down		
0.0 4 h	En	try	Mic	ldle	La	st	En	try	Mic	ldle	La	st	En	try	Mic	ldle	La	st	En	try	Mic	ldle	La	st
Month	CS2	H2S	CS2	H2S	CS2	H2S	CS2	H2S	CS2	H2S	CS2	H2S	CS2	H2S	CS2	H2S	CS2	H2S	CS2	H2S	CS2	H2S	CS2	H2S
0-4/24	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	Ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Oct'24	0.22	Tr	0.14	Tr	0.18	Tr	0.17	Tr	0.21	Tr	0.15	Tr	0.17	Tr	0.2	Tr	0.21	Tr	0.21	Tr	0.19	Tr	0.18	Tr
Nov'24	0.29	Tr	0.2	Tr	0.21	Tr	0.22	Tr	0.19	Tr	0.21	Tr	0.12	Tr	0.1	Tr	0.1	Tr	0.24	Tr	0.26	Tr	0.29	Tr
Dec24	0.14	Tr	0.12	Tr	0.15	Tr	0.18	Tr	0.17	Tr	0.17	Tr	0.12	Tr	0.15	Tr	0.14	Tr	0.21	Tr	0.2	Tr	0.23	Tr
Jan'25	0.12	Tr	0.11	Tr	0.12	Tr	0.1	Tr	0.12	Tr	0.11	Tr	0.12	Tr	0.12	Tr	0.12	Tr	0.11	Tr	0.1	Tr	0.12	Tr
Feb'25	0.12	Tr	0.13	Tr	0.1	Tr	0.1	Tr	0.12	Tr	0.12	Tr	0.1	Tr	0.12	Tr	0.11	Tr	0.13	Tr	0.14	Tr	0.14	Tr
Mar'25	0.12	Tr	0.11	Tr	0.12	Tr	0.1	Tr	0.12	Tr	0.11	Tr	0.12	Tr	0.12	Tr	0.12	Tr	0.11	Tr	0.1	Tr	0.12	Tr
Min	0.12	Tr	0.11	Tr	0.10	Tr	0.10	Tr	0.12	Tr	0.11	Tr	0.10	Tr	0.10	Tr	0.10	Tr	0.11	Tr	0.10	Tr	0.12	Tr
Max	0.29	Tr	0.20	Tr	0.21	Tr	0.22	Tr	0.21	Tr	0.21	Tr	0.17	Tr	0.20	Tr	0.21	Tr	0.24	Tr	0.26	Tr	0.29	Tr
Avg.	0.17	Tr	0.14	Tr	0.15	Tr	0.15	Tr	0.16	Tr	0.15	Tr	0.13	Tr	0.14	Tr	0.13	Tr	0.17	Tr	0.17	Tr	0.18	Tr

Table No. 10

The project authorities shall strictly comply with the rules and guidelines under manufacture, storage and import of hazardous chemicals Rules 1989 as amended up to date and Hazardous waste (management & handling) Rules 1989 as amended time to time. Authorization from the SPCB shall be obtained for collection, storage, treatment and disposal of hazardous wastes.

Industry is strictly complying the rules and guidelines under the Manufacture, storage and Import of Hazardous Chemicals (MSIHC) Rules, 1989 as amended time to time.

Industry has obtained license for storage of 60 KL light diesel oil and storage of 10 KL HSD at 2 locations in plant area for DG sets from Deputy Controller of Explosive from M/s PESO (PETROLEUM & Explosives Safety Organization). We have valid factory license from DISH.

Industry has taken authorization (CC&A # AWH 140562) for collection, storage, treatment and disposal of hazardous wastes under the provisions of Hazardous Waste Rules, amended as on date. CCA issued by GPCB on 30.04.2025 which is valid up to 23rd March 2029.

Hazardous waste is being disposed to M/s. BEIL, Dahej & M/s. SEPL, Dahej (TSDF) facility and annual hazardous waste disposal details are submitted on GPCB XGN online site.

The overall noise levels in and around the plant area shall be kept well within the standard by providing noise control measures including acoustic hoods, silencers, enclosures etc. on all sources of noise generation. The ambient noise levels shall confirm to the standards prescribed under the Environment (Protection) Act, 1986 Rules 1989 viz.75 dB (day time and 70 dB (night time)

Industry has provided relevant noise control measures such as acoustic hoods, silencers, acoustic enclosures at all nose sources. Ambient noise inside the plant and around the plant in nearby villages conforms to the Environment (Protection) Act, 1986 Rules, 1989. The Noise level (dB) at workroom for reporting period from Oct'24 to Mar'25 is tabulated in **Table No. 20.**

Sound Level Meter: - SL 4023 SD

Reference Standard: - Sound Level Calibrator, Sr. No. 3421624, Calibration Valid Up to: 01.02.2026

					Table	No.20 (UOM	– dBA)					
	Oct	t'24	Nov	<i>ı</i> '24	Dec	24	Jar	ı'25	Feb	o'25	N	lar'25
A	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night
Area	Time	Time	Time	Time	Time	Time	Time	Time	Time	Time	Time	Time
	75	70	75	70	75	70	75	70	75	70	75	70
Main Gate	64.8	58.8	60.2	55.8	61.2	56.2	60.6	55.9	61.2	53.2	61.9	54.8
Material Gate	69.2	64.1	62.7	57.1	63.2	56.9	62.1	57.2	61.6	54.4	62.4	54.9
ОНС	65.5	62.5	65.9	53.8	66.3	54.5	64.6	55.8	62.1	53.1	62.6	54.0
Derol	75	70	75.0	70.0	75.0	70.0	75.0	70.0	75.0	70.0	75.0	70.0
Vilayat	65	55	65.0	55.0	65.0	55.0	65.0	55.0	65.0	55.0	65.0	55.0
Sarnar	55	45	55.0	45.0	55.0	45.0	55.0	45.0	55.0	45.0	55.0	45.0
Argama	50	40	50.0	40.0	50.0	40.0	50.0	40.0	50.0	40.0	50.0	40.0
Min	50.0	40.0	50.0	40.0	50.0	40.0	50.0	40.0	50.0	40.0	50.0	40.0
Max	75.0	70.0	75.0	70.0	75.0	70.0	75.0	70.0	75.0	70.0	75.0	70.0
Avg.	63.5	56.5	62.0	53.8	62.2	53.9	61.8	54.1	61.4	53.0	61.7	53.4

Note: All results are within prescribed limits. (Refer Table No.20)

The company shall develop rain water harvesting structures to harvest the runoff water for recharge of ground water

Survey has been done for roof top rain water harvesting. Tentative details of water saving done through implemented scheme are enclosed below:

	Tentative Water Saving through Rain Water Harvesting (Oct-24 to Mar-25)											
Reservoir Area-1	Reservoir Area-2	Non-Process Building Area	Area		Rainfall		Rain Water Harvesting					
M2 (MM) (CM) (Mtr.) M3												

	86400	43200	26762	156362	30.9	3.09	0.0309	4831.58
	The company sh	all undertake eco-de	evelopment meas	ures includin	g We have	been undertakir	ng various co	ommunity development
	-	re measures in the	project area fo	or the overa	II measures	in nearby v	illages. Uni	t has proposed Eco
XII)	improvement of th	e environment.			developm	ent plan yearly	basis thro	ugh CSR activities and
					submittin	g CSR activities ι	update in An	nual Environment Audit
					Report to	GPCB on yearly l	oasis.	
	·	nt plan should be submi	tted to SPCB within	three months o	of Eco devel	opment measure	s including c	ommunity welfare being
	receipt of this letter	for approval.			done und	der CSR initiativ	es & expe	nditure details of CSR
					activities	are in below Tab	le No. 21.	

		Table No. 21		
Financial Year	Average Net Profit (in Crore) of the company	Allocate CSR Amount	Actual Spent in CSR	% Spent CSR against Net Profit
	(As per 135(S) company's Act)	(2%)	(Amount in Crore)	
2015-2016	791.00	15.82	15.05	
2016-2017	790.00	15.80	18.06	
2017-2018	1107.00	22.14	29.84	
2018-2019	1699.00	33.97	47.14	
2019-2020	2421.32	48.43	58.98	
2020-2021	2253.08	45.06	84.66	
2021-2022	1798.71	35.97	42.47	
2022-2023	1497.56	29.95	54.19	
2023-2024	1701.00	34.02	58.30	
Total=>	14058.42	281.16	408.78	2.91%

A separate Environment Management Cell equipped with full-fledged laboratory facilities shall be set up to carry out the Environmental Management and monitoring functions. The details of the Cell shall be submitted to MoEF regional officer prior to commissioning of the plant.

A Separate Environment Management Cell already exists with technically qualified personnel who are under the direct control of senior executives for Environment Management and monitoring function. Organogram of environment management cell is Enclosed as **Annexure-3**. Detail of testing facility & testing equipment available in environmental laboratory is enclosed as **Annexure-4**.

The project authorities shall earmark separate funds to implement the condition stipulated by MoEF as well as state government along with the implementation

As mentioned in Environment Clearance, total project cost was INR 1200 Crores. As committed in the EIA/EMP, unit has allocated capital cost of INR 170.5 Crores and recurring cost INR 15.5 Crores per annum respectively for implementation of

XIV)		dule for all the conditions so provided shall not be ose.	•			environmenta as well as state Funds are ut measures, Env belt developm for other pur mentioned in	Govt. ilized in irronment ent. We here	Air pollution al monitoring ereby declare	control m & manager that the cap	easures, wa ment, waste pital & recurri	ter pollut managemong fund is i	ion contro ent & greer not diverted
						Table No.						
		F	und Utili	ze for en	vironn	nental Manag	ement a	are under (R	s. In Crore	e)		
	Sr. No.	Particular	Сарех	Opex FY-17	Oper FY-18	-	Opex FY-20	Opex FY-21	Opex FY-22	Opex FY-23	Opex FY-24	Opex FY-25
	1	Effluent Treatment	79.00	11.50	10.5	5 11.00	11.00	13.35	14.85	35.60	38.63	30.67
	2	Air Pollution Control (Including H2S Scrubbing Plant & CAP Plant)	472.00	03.50	04.00	03.30	05.17	14.35	14.23	162.85	150.80	118.38
	3	Green Belt Development	00.50	00.50	00.5	5 01.30	0.51	0.13	0.08	1.09	3.83	1.20
	4	Waste Management	01.50	00.50	00.60	01.60	3.07	2.90	1.78	4.37	2.97	2.98
	To	Total Amount (In Crore) => 552.79 16.00 15.7			15.7	1 17.20	19.75	30.73	30.94	203.91	196.23	153.23
XV)	action office A six-r	mplementation of the project plans shall be monitored to of MoEF/ GPCB/ CPCB. monthly compliance status recording agencies and shall be plany.	by the cor	be submi	egional tted to	Acknowledged, report to MoEF Six monthly con well as being po	CC, CPCB a	atus report is b	eing regularl	y submitted to	o monitorin	g agencies a
						Com	oliance Pe	eriod	Date of Report Submission			
						Apr	'24 to Sep	'24		26.11.2024		
(VI)	-	project proponent shall in		•		Advertiseme	nt has be	en released i	n two local	l newspaper	s within 7	days fron
	the Ministry and copies of the clearance letter are available with the SPCB/Committee and may also be seen at website of MoEF https://envfor.nic.in. This shall				the date of issue of the clearance letter. Issue of Environment Clearance: 20.12.2007 Release of Advertisement : 24.12.2007							
	be ad	vertised within seven days	from the	date of is	sue of	EC Advertise	ment cop	nes are enclo	sed below	:		

	the clearance letter at least in two local newspapers that	
	• •	
	are widely circulated in the region of which one shall be	
	in the vernacular language of the locality concerned and	
	a copy of the same shall be forwarded to the concerned	
	regional office of the Ministry.	
	Name of Paper: - Indian Express	Name of Paper: - Gujarati Loksatta
	Date of Issue: - 28.12.2007	Date of Issue: - 28.12.2007
	In: - English language	In: - Gujarati language
	AUITYA BIRLA GROUP Grasim Cellulosic Plot No1, GIDC Vilayat Dist: Bharuch, (Gujarat) Environment Clearance by MOEF Vide letter No. F.No.J-11011/463/2007-IA II (I), dated 20-12-07, which was received on 24-12-2007, the Ministry of Environment and Forests (Govt. Of India) has accorded Environmental Clearance for the Green Fleid Viscose Staple Fibre (127750 TPA) and Captive Power Plant (25 MW). Copies of the clearance letter are available with GPCB and may also be seen at website of the Ministry of Environment and Forests at http:\environment.in Grasim Industries Limited Begistered Office; Ro. Bidgergem, Needs, 456 day Bid, Million (MP).	ગાસીમ સેલ્યુલોઝીક પ્લોટ નં૧, જીઆઈડીસી વિલાચત, ડી.ભરૂચ, (ગુજરાત) MOEF દ્વારા પર્યાવરણીય પરવાનગી પર્યાવરણ તથા વનમંત્રાલયે (ભારત સરકાર) વિલાચતમાં VSF પ્લાન્ટ ૧૨૭૭૫૦ ટન પ્રતિ વર્ષ અને પાવરનું ઉત્પાદન ૨૫ મેગાવોટના ગીન કીલ્ડ પ્રોજેન્ટની પરવાનગી તારીખ ૨૦-૧૨-૨૦૦૭ના પત્ર નં. એક. નં. ૧-૧૧૦૧/૪૬૩/૨૦૦૭- ાએ II (1) દ્વારા આપેલ છે. પરવાનગી પત્રની નકલ જીપીસીબી અને પર્યાવશ તા ન મંત્રાલયની વેબસાઈટ http:\envfor.nic.in પર પ્રાપ્ય છે. ગાસીમ ઈન્ડસ્ટ્રીઝ લીમીટેડ રજીસ્ટર્ડ ઓફીસ: પી.ઓ.બિરલાગામ, નાગદા-૪૫૬ ૩૩૧ જી. ઉપેન (એમ.પી.)
XVII)	The project authorities shall inform the Regional Office	Industry has informed BSE & NSE regarding commissioning of project vide letters
	as well as Ministry, the date of financial closure and final	dated 31.07.2014 & 03.03.2015. We have submitted the same to Regional Office of
	approval of the project by the concerned authorities and	MoEF & CC, Bhopal.
	the date of the start of the project	Project / plant activities are as under;
		(1) EC received on 20 th Dec-07,
		(2) Civil & another const. work started in Jun-2011.
		(3) 1 st line commissioned in Mar-2014.
		(4) All 4 lines commissioned by Jan-2015.
10.	The Ministry may revoke or suspend the clearance, if	Acknowledged
	implementation of any of the above conditions is not	
	satisfactory	
11.	The Ministry reserves the rights to stipulate additional	Acknowledged
	conditions, if found necessary. The company in a time	
	bound manner will implement these conditions.	

12. The above conditions will be enforced, inter-alia under the provision of the Water (Prevention & control of pollution) Act-1977, the Air (Prevention & control of pollution) Act-1981, the Environment (Protection) Act-1986, Hazardous waste (Management & Handling) Rules-2003 and the Public Liability Insurance Act-1991 along with their amendments and rules.

Noted, Industry is complying all the applicable provisions of the Water (Prevention & control of pollution) Act-1977, the Air (Prevention & control of pollution) Act-1981, the Environment (Protection) Act- 1986, Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016 and the Public Liability Insurance Act-1991.

Note: Copy of the Monthly Environmental Monitoring reports by NABL accredited laboratory for Effluent and Emission for the last month of the compliance period i.e. Mar-25 is enclosed as Annexure-6 for reference.

Compliance status on Environmental Clearance

MOEF Ref. Letter No.: J-11011/321/2016-IA II(I)Pt, Dated 15.01.2018

Compliance Status Report for "Environmental Clearance" Accorded by the MoEF For Grasim Cellulosic Division (GCD), Vilayat

Compliance status on Environmental Clearance

MOEF Ref. Letter No.: J-11011/321/2016-IA II(I)Pt, Dated 15.01.2018

General Profile: -

Sr. No.	Stipu	lation			Compliance Status			
1.			•	. IA / GJ / IND2 /58913 report on the above su	•	Acknowledged		
2.	proposition of the proposition o	Ministry of Environ psal for environme e Fibre from 1,27, o 55 MW and setti Grasim Industries trial Area Vilayat, T	ental clearance 750 TPA to 2,55 ng up Solvent S Ltd (Grasim C	Vilayat, Taluka Vagra, District Bharuch (Gujarat). Latitude: 21 deg 46'8" and 21 deg 47'11" North				
_	The E	xisting & proposed	l products and o	Industry has taken following subsequer				
3.	S No.	Products/Units	Existing Capacity (as per EC dated 20.12.2007)	Additional Capacity	Capacity after Expansion	 environment clearance for expansion in production capacities; Environment Clearance No. F. No. J-11011/321/2016 (AUC) detect 17.10.2010 		
	1	Viscose Staple Fibre	127750 TPA	127750 TPA (Debottlenecking 36500; New Machine 91250)	255500 TPA	11011/321/2016-IAII(I) dated 17.10.2019 Summary of total production capacities of all environmental clearances and actual production during the reporting period is mentioned in Table		
	2	Solvent Spun Cellulosic Fibre		36500 TPA	36500 TPA	No.1		
	3	Sulphuric Acid*	102200 TPA	80300 TPA	182500 TPA			

4	Carbon Disulphide*	23725 TPA	10950 TPA	34675 TPA
5	Anhydrous Sodium Sulphate (By Product)	83038 TPA	83038 – 127750 TPA	166076 – 210788 TPA
6	Captive Power Plant	25 MW	30 MW	55 MW

^{*}Not listed in the Schedule to EIA Notification 2006 and subsequent amendments therein

	Table-1							
Products=>	Viscose Staple Fibre	Carbon Di Sulphide	Sulfuric Acid	Sodium Sulphate (Byproduct)	Power Generation	Solvent Spun Cellulosic Fibre (Excel Fibre)		
EC Amendment – As per EC No. J- 11011/463/2007-IA II (I), Dated 20.12.2007	127750	23725	102200	83038	25 MW	-		
EC Amendment – As per EC No. F. No. J- 11011/321/2016-IA-II(I) Pt Dated – 15.01.2018	255500	34675	182500	166076 to 210788	55 MW	-		
EC Amendment – EC No. F. No. J- 11011/321/2016-IAII(I) EC issued on 17 th October 2019 (Total Capacity after Expansion)	438000	65700	346750	348576 – 393288	55MW	36500		
Total Production (Tons) – Oct-24 to Mar-25	208264	21502	88609	119257	25.66	NIL		
Total Production (Tons) – Apr-24 to Sep-24	204667	18160	121639	114689	22.25	NIL		

Note: State Environmental Impact Assessment Authority (SEIAA), Gujarat has issued an amendment vide letter no. SEIAA/Guj. /EC/1(d), 4(d) & 5(f) /96/2011, dated 30-May-2011 & Letter No. SEIAA/GUJ/EC/1(d),4(d)&5(f)/98/2012 dt. 22.03.2012 for use of natural gas in place of charcoal in CS2 plant and 25MW powerplant which is installed by Grasim Chemical. As per the EC No. F. No. J-11011/321/2016-IAII(I) issued on 15.01.2018, remaining 30MW powerplant is installed by us. Kindly refer the Power generation details in above table.

4.	The existing land area is 222.63 ha and no additional land will be	Industry has setup proposed expansion on existing land
	required for the proposed expansion.	area and no additional land is required.
	Industry will develop greenbelt in an area of 33 % i.e., 73.46 ha. out of	Industry has developed greenbelt, in open space area
	222.63 ha area of the project.	and around factory complex along the boundary wall.
		Total 1,07,500 Nos. plants have been planted till

		Table No. 02		
	Sr.	Duration	Area (Acre.)	Number of Plant
	No		for Plantation	
	1	Existing	31	37,500 Plants
		(Till FY; 2017-18)		
	2	2018-19	10	10,000 Plants
	3	2019-20	10	10,000 Plants
	4	2020-21	10	10,000 Plants
	5	2021-22	10	10,000 Plants
	6	2022-23	10	10,000 Plants
	7	2023-24	10	10,000 Plants
	8	2024-25	10	10,000 Plants
		Total=>	101	1,07,500 Plants
Curana	spec sele Pho abo	cies is enclosed cted as per tograph of the ve EC Complian	d as Annexur the directive existing gree ace report of E	s and proposed place. Plant species es of CPCB & Den belts is attached CC Dated 17.10.2019
Rs.2560 Crores.	exist Indu clea • En IAII(Proj	ting plant. stry has taken rance for expar vironment Clea l) dated 17.10.2 ect cost after a	following sub nsion in produ arance No. F. N 2019. amendment in	or debottlenecking osequent environmention capacities; No. J-11011/321/2020 EC for expansion atylines is Rs. 3500 C
		illation of new		•

Noted and complied the condition

Employment will be provided to 1300 persons as direct & 1200

	persons indirectly after expansion.		
	Industry proposes to allocate Rs. 64.04 Crores towards enterprise social commitment	clearance for expansion in • Environment Clearance N IAII(I) dated 17.10.2019. Industry has invested Rs. bottlenecking activity out industry has made action p FY 20. RO drinking water fa nearby villages namely Sar 18.83 lacs as per the ESC pl Remaining amount is inve Environment as per the C assessment Division— F. N 30th September 2020. We Crore for the installation Be CAP plant for CS2 Recovery	10. F. No. J-11011/321/2016- 10. Crores as a part of Deof investment. Accordingly, plan to spend Rs. 25 Lakhs in acility is provided in the three mar, Saladra, Derol & spent lan. Ested for the betterment of DM issued by MOEF Impact No. 22-65/2017-IA.III, dated as have invested Rs. 173.67 est available technologies i.e. y and the H2S recovery plant ment. This has brought down
5.	There are no National parks, Wildlife sanctuaries, Biosphere reserves, Tiger/Elephant reserves, Wildlife corridors etc. within 10 km from the project site. Narmada River (estuarine region) is at a distance of 9.0 km in SSW direction from the project site.	Acknowledged, Plant is Industrial Estate, Vilayat, T and there are no National Biosphere reserves, Tiger/corridors etc. within 10	setup on Plot No.1 GIDC aluka- Vagra, Dist Bharuch parks, Wildlife sanctuaries, Elephant reserves, Wildlife km from the project site. region) is at a distance of 9.0
6.	The total fresh water requirement is 35,000 m3/day, which will be met from Gujarat Industrial Development Cooperation (GIDC) water supply.		letter details are mentioned
		Table	No. 03
		1) Letter No.	GIDC/POJ/MKT/GRASI
			M/575, Dated 06 th December-2006

	Agreement for Water Supply	15.60 MLD
	Effluent Discharge	12.48 MLD
	2) Letter No.	GIDC/SE/CG//BRH/1236
		Dated 29 th December-
		2016
	Agreement for Water	25.00 MLD
	Supply	
	Effluent Discharge	19.40 MLD
	3) Letter No.	GIDC/BRH/WS/494
		Dated 3rd.July,2019
	Agreement for Water	35.00 MLD
	Supply	
	Effluent Discharge	23.00 MLD
	Agreement of water supply is m 29.12.2016 and 03.07.2019.	nade with GIDC on 06.12.2006,
Effluent generated from the project will be treated in the existing	The Effluent generated from	om plant is treated in the
effluent treatment plant, and the treated effluent will be	existing effluent treatmer	-
discharged into Bay of Kambhat through GIDC pipeline.	effluent is discharged into	,
	GIDC pipeline. Treated efflu Oct-24 to Mar-25 is summa	

Table No.04

Third Party Lab Details: -

Agency: - Unistar Environment & Research lab Pvt. Ltd, Address: -GIDC, Char Rasta, Vapi

NABL: - NABL Certificate Number TC-7753

													FIN	IAL TREATED	EFFLUENT														
Month	рН	Temp.	TSS	Oil & Grea se	Pheno lic Comp	Cyani de	Fluori de	Sulphi de	Amm. Nas N	Total Kzeld Nit. (TKN)	Nitrate Nitrogen	Total Res Cl2	Arse nic	Trivalent Chromium	Hexaval ent Chrom	Cu	Pb	Hg	Ni	Zn	Cd	BOD	COD	Selen ium	Vana dium	Mn	Iron	Bio Assay- 96 Hrs. fish	Toxicity Test - 96 Hrs. fish
Unit	-	deg C	mg/lit	mg/lit	mg/lit	mg/lit	mg/lit	mg/lit	mg/lit	mg/lit	mg/lit	mg/lit	mg/lit	mg/lit	mg/lit	mg/lit	mg/lit	mg/lit	mg/lit	mg/lit	mg/lit	mg/lit	mg/lit	mg/lit	mg/lit	mg/lit	mg/lit	mg/lit	mg/lit
Limit	06-09		100	10	5	0.2	15	5	50	50	50	1	0.2	2	0.1	3	0.1	0.01	3	15	0.05	100	250	0.05	0.2	2	3	90%	90%
Oct-24	7.70	30.00	20.00	BDL	BDL	BDL	1.10	BDL	2.80	5.20	0.40	BDL	BDL	BDL	BDL	0.10	BDL	BDL	0.16	0.16	BDL	60.00	190.20	BDL	BDL	0.32	0.33	Complied	Complied
Nov-24	7.77	30.00	28.00	BDL	0.40	BDL	0.29	BDL	BDL	4.60	1.20	0.70	BDL	BDL	BDL	0.09	BDL	BDL	0.14	0.14	BDL	58.00	156.70	BDL	BDL	0.29	0.27	Complied	Complied
Dec-24	7.84	30.00	32.00	BDL	0.67	BDL	1.23	BDL	2.20	2.50	0.70	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.12	0.05	BDL	62.00	210.80	BDL	BDL	BDL	2.92	Complied	Complied
Jan-25	6.99	28.00	28.00	BDL	0.72	BDL	1.21	BDL	2.20	2.80	1.00	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.11	0.06	BDL	56.00	204.40	BDL	BDL	BDL	3.27	Complied	Complied
Feb-25	7.57	30.00	20.00	BDL	BDL	BDL	0.99	BDL	BDL	2.30	0.90	BDL	BDL	BDL	BDL	0.07	BDL	BDL	0.13	0.12	BDL	62.00	210.00	BDL	BDL	0.19	1.55	Complied	Complied
Mar-25	7.48	30.00	24.00	BDL	BDL	BDL	1.33	BDL	BDL	2.40	0.20	BDL	BDL	BDL	BDL	0.09	BDL	BDL	0.12	0.12	BDL	46.00	160.50	BDL	BDL	BDL	BDL	Complied	Complied
Min	6.99	28.00	20.00	BDL	BDL	BDL	0.29	BDL	BDL	2.30	0.20	BDL	BDL	BDL	BDL	0.07	BDL	BDL	0.11	0.05	BDL	46.00	156.70	BDL	BDL	BDL	BDL	Complied	Complied
Max	7.84	30.00	32.00	BDL	0.72	BDL	1.33	BDL	2.80	5.20	1.20	0.70	BDL	BDL	BDL	0.10	BDL	BDL	0.16	0.16	BDL	62.00	210.80	BDL	BDL	0.32	3.27	Complied	Complied
Avg.	7.56	29.67	25.33	BDL	0.60	BDL	1.03	BDL	2.40	3.30	0.73	0.70	BDL	BDL	BDL	0.09	BDL	BDL	0.13	0.11	BDL	57.33	188.77	BDL	BDL	0.27	1.67	Complied	Complied

Total power requirement of 55 MW will be met from the captive power plant. Three 175 TPH coal/pet coke fired boilers will be installed for the proposed CPP.	· · · ·
Multi cyclone separator/ bag filter with a stack of height of 125 m will be installed to control the particulate emissions within prescribed norms.	Industry has installed ESP instead of the Multi Cyclone Separator/bag filter with a stack height of 125m to control the particulate emission within prescribe norms.

	Existing unit has 2 DG sets of 1250 KVA capacity, that are used as standby	Existing DG sets are used as standby during power failure.
	during power failure. Stack height of 30 m has been provided as per CPCB	Stack height of 30 m has been provided as per CPCB
	norms for the existing DG sets	norms.
7.	All Manmade Fibres Manufacturing (Rayon) projects are listed at 5(d) of	Acknowledged
	Schedule to the Environment Impact Assessment (EIA) Notification, 2006,	
	under Category 'A' and requires appraisal at central level by Expert	
	Appraisal Committee (EAC) in the Ministry	
8.	The terms of references (ToR) was granted on 2nd February, 2017 with the	Acknowledged
	exemption from public consultation in terms of para 7 (i), Point III, Stage	
	(3)(i)(b) of EIA Notification, 2006	
9.	The proposal for environmental clearance (EC) was placed before the EAC	Acknowledged
	(Industry-2) in its 25 th meeting held during 5-7 July, 2017 in the Ministry.	
	The project proponent and their consultant M/s J. M. EnviroNet Pvt Ltd,	
	presented the EIA/EMP report as per the ToR. The EAC, found the EIA/EMP	
	report satisfactory and in consonance with the ToR, and recommended the	
	proposal for environmental clearance with certain conditions.	
10.	Based on the proposal submitted by the project proponent and	Acknowledged
	recommendations of the EAC (Industry-2), the Ministry of Environment,	
	Forest and Climate Change hereby accords environmental clearance to the	
	project 'Expansion of Viscose Staple Fibre from 1,27,750 TPA to 2,55,500	
	TPA, Captive Power Plant from 25 MW to 55 MW and setting up Solvent	
	Spun Cellulosic Fibre unit of 36,500 TPA' by M/s Grasim Industries Ltd	
	(Grasim Cellulosic Division) at Plot No. 1, GIDC Industrial Area Vilayat, Tehsil	
	Vagra, District Bharuch (Gujarat), under the provisions of EIA Notification,	
	2006 and the amendments made therein, subject to the compliance of	
	terms and conditions, as under:-	

10. Terms & Conditions

i)		Limited (Chemical Division) instead of M/S. Grasim Cellulosic (A Unit
ii)	The Monitoring report on compliance status of the conditions	The monitoring report on compliance status of the conditions

	stipulated by SEIAA in the environmental clearance dated 30 th May, 2011, shall be submitted to the Ministry through the Regional Office, for further review of the project, if so required.	stipulated by SEIAA in the environmental clearance dated 30th May 2011 has been submitted to Regional office MoEF&CC, Bhopal vide our letter dated 20.10.2016. Regional office of MoEFCC has forwarded monitoring report to MOEFCC, Delhi vide their letter No. 18-A-80/2011 (SEAC)/ 1336 dated 30.11.2017.
iii)	Effluent shall be treated properly before discharging to Bay of Kambhat through GIDC pipeline.	A full-fledged Effluent Treatment Plant is installed having Primary and Secondary treatment facility based on extended aeration activated sludge process. Effluent Treatment Plant has of following major equipment. 1. Grit Chamber – 2 Nos 2. Primary Clarifier – 2 Nos 3. Biological Reactor - 7 aeration Lagoons 4. Secondary Clarifier - 2 Nos 5. Treated Effluent RO – 14 MLD Capacity The effluent is treated in effluent treatment plant & the quality of effluent is verified before its discharge to Bay of Kambhat through GIDC pipeline. Treated effluent quality for the period of Oct-24 to Mar-25 is summarized in Table no. 04 .
iv)	At least, 50 % of the fuel requirement shall be met from natural gas and the rest 50 % may be met from briquette/coal (with Sulphur content less than 0.5%).	This Condition has amended for use of 100% coal with ETP bio mass vide letter no. F No. J -11011/321/2016-IA-II(I) dated 16 th August 2018.
v)	Proposed effluent generation (27160 KLD) shall be reused after treating/processing through RO, etc. and fresh water requirement shall accordingly be restricted to 22,000 KLD	The Condition is amended for 28,000 KLD water after reusing/recycling of 7,350 KLD through RO plant vide letter no. F No. J -11011/321/2016-IA-II(I) dated 16 th August 2018.
vi)	Smart energy conservation equipment's (like LED/solar light) shall be installed in the factory and premises.	LED based lighting are preferred and installed in the newly commissioned plant.
vii)	As assured, 5 MW power (of the total power requirement) shall be generated from solar power/renewable energy sources.	We have started the procuring of renewable 5 MW power from Renew Surya Uday Pvt. Ltd.

viii) Green belt of 10 m width shall be developed along the periphery of the plant with three layers of trees. At least 33 % of the area shall be developed as green area with trees

Industry has developed greenbelt, in open space area and around factory complex along the boundary wall. Total 1,07,500 nos. plants have been planted till Mar-2025. Plantation details are tabulated in **Table No.2.** Details of existing plant species and proposed plant species along with is enclosed as **Annexure-2.** Plant species are selected as per the directives of CPCB & DFO. Photograph of the existing green belts is available above in EC Compliance report of EC dated 17.10.2019

The proponent shall plant and maintain at least 1 lakh native trees for five year in the nearby villages.

In FY 2024-25, We adopted conventional and Miyawaki technique and planted 68000 saplings with proper care and protection.





x) Enterprises social commitment (ESC) plan shall be implemented with at least 2.5 % of the project cost. As proposed, Hospital (with modern facilities) may be constructed/ maintained, and also construct and maintain modern RO drinking water facility in the five nearby village.

Industry has taken following subsequent environment clearance for expansion in production capacities;

• Environment Clearance No. F. No. J-11011/321/2016-IAII(I) dated 17.10.2019.

Industry has invested Rs. 10 Crores as a part of De-bottlenecking activity out of investment. Accordingly, industry has made action plan to spend Rs. 25 Lakhs in FY 20. RO drinking water facility provided in the three nearby villages namely Sarnar, Saladra, Derol & spent 18.83 lacs as per the ESC plan.

Industry has additionally invested Rs. 173.67 Crore for the installation Best available technologies i.e. CAP plant for CS2 Recovery and the H2S recovery plant which is the part of our ESC investment. This has brought down emission levels far below the norms.

10.1 **General Conditions:** -The grant of environmental clearance is subject to compliance of other general conditions as under;

i.	The project authorities must strictly adhere to the stipulations	Industry strictly adhere to the stipulations made by the Central
	made by the Central Pollution Control Board, State Pollution	Pollution Control Board, State Pollution Control Board, State
	Control Board, State Government and any other statutory	Government and any other statutoryauthority. Industry regularly
	authority.	submits the Six-Monthly Compliance report CPCB and GPCB along
		with MoEF&CC.
ii.	No further expansion or modifications in the plant shall be	No expansion or modification is done in industry without prior
	carried out without prior approval of the Ministry of	permission of Ministry. Expansion is done with following prior
	Environment, Forest and Climate Change. In case of deviations	permission / clearance.
	or alterations in the project proposal from those submitted to this Ministry for clearance, a fresh reference shall be made to	• Environment Clearance No. F. No. J-11011/321/2016-IAII(I) dated
	the Ministry to assess the adequacy of conditions imposed and	17.10.2019
	to add additional environmental protection measures required,	
	if any	
iii.	The locations of ambient air quality monitoring stations shall be	There are 4 nos. AAQ monitoring stations installed in
	decided in consultation with the State Pollution Control Board	consultation with GPCB in nearby 4 villages, at Derol, Vilayat,
	(SPCB) and it shall be ensured that at least one station each is installed in the upwind and downwind direction as well as where	Sarnar and Dayadra within 2-3 kms radius. Also monitoring
	maximum ground level concentrations are anticipated	AAQ inside plant periphery. Monthly monitoring is being
		done by NABL accredited Lab. The Ambient Air quality results
		for the period of Oct-24 to Mar-25 is tabulated as under
		Table No. 05.
		1

Agency: - Unistar Environment & Research Lab Pvt. Ltd

Instrument ID & Name: - 1. Respirable Dust Sampler - RDS: SR. No. 230 | 2019 - UERL/AIR/RDS/RR/02(Calibration Period: - 16.08.2024 - 15.08.2025)

2. Fine Particulate Sampler - FPS: SR. No. 245 E 2019 - UERL/AIR/FPS/RR/02(Calibration Period: - 16.08.2024 – 15.08.2025)

Table No. 05

			SARNAI	R					DERO	L					DAYAD	RA					VIL	AYAT		
Month	SPM PM10	SPM PM2.5	SO2	NO2	H2S	CS2	SPM PM10	SPM PM2.5	SO2	NO2	H2S	CS2	SPM PM10	SPM PM2.5	SO2	NO2	H2S	CS2	SPM PM10	SPM PM2.5	SO2	NO2	H2S	CS2
			μg/m3						μg/m3	3					μg/m	3					μg	/m3		
Norm	100	60	80	80	150	100	100	60	80	80	150	100	100	60	80	80	150	100	100	60	80	80	150	100
Oct-24	59.3	23.8	21.6	24.3	BDL	BDL	53.8	20.0	19.6	24.2	BDL	BDL	62.6	18.6	17.2	19.2	BDL	BDL	55.9	17.3	20.4	21.8	BDL	BDL
Nov-24	55.7	20.6	23.2	26.8	BDL	BDL	51.6	17.1	18.9	21.9	BDL	BDL	60.2	23.8	23.1	26.7	BDL	BDL	58.3	24.2	21.5	25.2	BDL	BDL
Dec-24	60.2	17.2	23.2	28.3	BDL	BDL	56.6	16.6	21.1	25.6	BDL	BDL	52.6	20.5	22.3	27.4	BDL	BDL	53.1	21.7	24.1	29.4	BDL	BDL
Jan-25	56.9	20.9	19.4	21.4	BDL	BDL	55.1	21.3	20.4	21.4	BDL	BDL	54.1	20.5	20.4	23.5	BDL	BDL	51.6	18.7	17.2	20.6	BDL	BDL
Feb-25	56.2	22.3	17.7	20.6	BDL	BDL	55.2	24.8	17.7	23.0	BDL	BDL	58.5	21.6	15.8	17.0	BDL	BDL	52.9	21.6	18.8	20.3	BDL	BDL
Mar-25	60.4	23.3	19.9	21.8	BDL	BDL	54.6	17.1	23.3	24.2	BDL	BDL	51.7	16.0	19.5	23.7	BDL	BDL	57.2	17.6	21.3	25.4	BDL	BDL

Min	55.7	17.2	17.7	20.6	BDL	BDL	51.6	16.6	17.7	21.4	BDL	BDL	51.7	16.0	15.8	17.0	BDL	BDL	51.6	17.3	17.2	20.3	BDL	BDL
Max	60.4	23.8	23.2	28.3	BDL	BDL	56.6	24.8	23.3	25.6	BDL	BDL	62.6	23.8	23.1	27.4	BDL	BDL	58.3	24.2	24.1	29.4	BDL	BDL
Average	58.1	21.4	20.8	23.9	BDL	BDL	54.5	19.5	20.2	23.4	BDL	BDL	56.6	20.2	19.7	22.9	BDL	BDL	54.8	20.2	20.6	23.8	BDL	BDL
Note: All	Note: All results are in μ g/m3 and till date, the emission level has never exceeded prescribed l														[·] Table	No.05	5)							
iv.	iv. The National Ambient Air Quality Emission Standards issued T														l Amb	ient .	Air Q	uality	y Emis	ssion S	Standa	rds iss	ued b	y the
															de G	S.S.R.	No	. 82	6(E) d	lated :	16 th N	ovemb	er, 20	009 is
	Nov		compi	led by	Indus	stry.			` ,															
V.	The	overa	all nois	e lev	els ir	n and	arou	nd th	e plar	nt are	ea sh	all	Indust	ry has	pro	vided	rele	vant	noise	e cont	trol m	neasur	es su	ch as
	be l	kept v	vell w	ithin	the :	stand	dards	by	provi	ding	no	ise	acoust	tic hoc	ds, s	ilence	ers, a	cous	tic en	closur	es at	all no	se sou	ırces.
	cont	trol m	neasur	es i r	nclu	din	g ac	oustic	hood	ds, si	lence			ent noi	•		•							
	encl	osure	s etc.	on	all so	ource	s of	noise	gene	eratio	n. T	ho						•				•		•
			noise						_				village	es conf	orms	to th	e En	vironi	ment	(Prote	ection) Act, 1	1986 F	Ruies,
													1989.											
	prescribed under Environment (Protection) Act, 1986 Rules, 1989 viz. 75 dBA (day time) and 70 dBA (night time).																							
=1 11 1	-					•																		

The Noise level (dB) at workroom for last 6 months is tabulated as under Table No. 06

Certification Agency: - Tools MRO Safety / Address: - 806 – 808, Abhinandan Royale, Opp. Rajhans Olympia, Bhatar Road, Surat – 395007, Gujarat, India

Reference Standard: - Sound Level Calibrator, Sr. No. SL 4023 SD, Calibration Valid Up to: 01.02.2026

					Т	able No.06 (UC)M – dBA)					
	Oct	'24	No	v'24	De	c'24	Jan	'2 5	Feb	'25	М	ar'25
A	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night
Area	Time	Time	Time	Time	Time	Time	Time	Time	Time	Time	Time	Time
	75	70	75	70	75	70	75	70	75	70	75	70
Main Gate	60.8	52.6	57.5	52.2	57.0	51.3	56.3	50.9	57.4	51.5	56.8	50.8
Material Gate	61.0	54.4	58.1	53.6	57.7	53.2	57.6	52.3	58.4	53.6	57.3	52.6
онс	61.8	53.1	59.4	52.9	58.6	52.3	58.6	51.7	58.7	52.7	58.2	51.5
Derol	51.6	39.7	53.8	42.9	53.7	42.2	53.0	41.7	53.8	43.0	53.5	41.9
Vilayat	50.2	42.2	51.5	43.8	51.2	43.6	50.8	43.3	51.2	44.5	50.8	43.1
Sarnar	53.2	43.1	52.8	44.1	52.6	43.4	52.1	43.2	52.8	43.5	52.1	42.7
Argama	50.9	41.1	53.6	43.6	52.7	43.4	52.5	42.9	53.1	44.2	52.5	43.3
Min	50.2	39.7	51.5	42.9	51.2	42.2	50.8	41.7	51.2	43.0	50.8	41.9
Max	61.8	54.4	59.4	53.6	58.6	53.2	58.6	52.3	58.7	53.6	58.2	52.6
Avg.	55.6	46.6	55.2	47.6	54.8	47.1	54.4	46.6	55.1	47.6	54.5	46.6

vi. The Company shall harvest rainwater from the roof tops of the buildings and storm water drains to recharge the ground water and use the same water for the process activities of the project to conserve fresh water

Survey has been done for roof top rain water harvesting. Following are the tentative details of water saving done through implemented scheme.

		Tentativ	e Water Saving throu	ıgh Rain Water I	Harvesting	g (Oct-	24 to Mar-25)				
Rese	ervoir Area-1	Reservoir Area-2	Non-Process Building Area	Area			Rainfall		Rainwater Ha	arvesting	
		M2			(MN	1)	(CM)	(Mtr.)	M	3	
	86400	43200	26762	156362	30.9	9	3.09	0.0309	4831	L.58	
vii.	_	shall be imparted to of chemicals handling	• •	n safety and l		and main	nings are impa health aspec ntained.	ts of che	micals han	dling and	records
	Pre-emp	oloyment and routine	periodical medical	al examinatio	ns for	We h	ave established	d an Occupa	itional Health	n Center (OF	HC).
	all empl	oyees shall be underta	aken on regular b	asis.		Prior	to joining Pre-	employmen	t checkup is	done and or	n regular
							val routine poyees are carrie				
						-	actories Act.	eu out. Necc	n as are main	tairied at Oi	ic as per
	Training imparte	to all employees od.	on handling of o	chemicals sh	all be		nings are impar cts of chemica			n safety an	d health
viii.	imparted. The company shall also comply with all the environmental protection measures and safeguards proposed in the documents submitted to the Ministry. All the recommendations made in the EIA/EMP in respect of environmental management, and risk mitigation measures relating to the project shall be implemented.										
ix.	The com	npany shall undertake io-economic conditio	all relevant meas	sures for imp	roving		nave been und sures in and	_		-	-
		s shall be undertake		_			ficiaries covere		_		
	adminis ⁻	tration.									
							lopment plan	-	_		
							nitting update			nnual Envir	ronment
							t Report to GP		<u>- </u>		
х.		mpany shall undert	•				developmenta		_	-	
		g community welfare mprovement of the er	•	oroject area f	or the		being done ur nditure details				in & its
	l			Table No. 0	7						
-	Financial Year	Average Net Profit (i	n Crore) of the	Allocate CSR A	Amount	Actu	ual Spent in CSR	% Spent CS	R against Net		
		compan	ıv	(2%)		(An	nount in Crore)	Pr	ofit		

		(As per 135(S) c	ompany's Act)								
	2015-2016	791.	00		15.8	2	15.	05				
	2016-2017	790.	00		15.8	0	18.	06				
	2017-2018	1107	.00		22.1	4	29.	84				
	2018-2019	1699	.00		33.9	7	47.	14				
	2019-2020	2421	.32		48.4	.3	58.	98				
	2020-2021	2253	.08		45.0	6	84.	66				
	2021-2022	1798	.71		35.9	7	42.	47				
	2022-2023	1497	.56		29.9	5	54.	19				
	2023-2024	1701	.00		34.0	2	58.	30				
	Total=>	14058	3.42		281.3	16	408	.78	2.9	1%		
xi.	A sep	arate Environmental I	Managemer	nt Cell ed	quipped w	ith full-	A Separate	e Environn	nent Manag	gement Ce	ll already	exists with
	_	ed laboratory facilitie		-	•	out the	technically	qualified	personnel v	vho are un	der the dir	ect control
	Enviro	onmental Managemen	t and Monit	oring fu		of senior	executiv	es for En	vironment	Manage	ment and	
							monitoring	g function.	Organogra	m of enviro	onment ma	anagement
							cell is Encl	osed as An	nexure-3. [Detail of tes	sting facilit	y & testing
							equipmen	t available	in environn	nental labo	ratory is e	enclosed as
							Annexure-	-4.				
xi.	The c	ompany shall earmark	sufficient f	unds to	wards capi	tal cost	Separate f	und is enr	marked on	annual bas	is for Env	ironmental
	and r	ecurring cost per ar	nnum to ir	nplemen	nt the cor	nditions	manageme	ent				
	stipul	ated by the Ministry	of Environr	ment, Fo	rest and	Climate	_		0.08 for fund	d Utilizatio	n details.	
		ge as well as the			_							
	_	mentation schedule fo			•							
		inds so earmarked for		_								
	contro	ol measures shall not b	e diverted f	or any o								
						Table No	0. 08					
			Fund Utili:	ze for en	vironmen	tal Mana	agement a	re under (Rs. In Crore	e)		
	Sr.	Particular	Canox	Opex	Opex	Opex	Орех	Орех	Орех	Opex	Opex	Opex
	No.	rai ticulai	Сарех	FY-17	FY-18	FY-19	FY-20	FY-21	FY-22	FY-23	FY-24	FY-25
	1	Effluent Treatment	79.00	11.50	10.56	11.00	11.00	13.35	14.85	35.60	38.63	30.67
	2	Air Pollution Control	472.00	03.50	04.00	03.30	05.17	14.35	14.23	162.85	150.80	118.38

		Plant &	ng H2S Scrubbing CAP Plant)										
	3		elt Development	00.50	00.50	00.55	01.30	0.51	0.13	0.08	1.09	3.83	1.20
	4	1	Management	01.50	00.50	00.60	01.60	3.07	2.90	1.78	4.37	2.97	2.98
	T	otal Amo	unt (In Crore) =>	552.79	16.00	15.71	17.20	19.75	30.73	30.94	203.91	196.23	153.23
xiii.			A copy of the coproject propor Parishad/Municopy and the local Notes representations processing the proportion that the proportion	nent to cipal Corp GO, if any s, if any	concern oration, , from w	Panchaya Urban loc hom sugge	at, Zilla al Body estions/	A copy of authoritie	clearance es.	letter is su	ubmitted t	o Panchay	rat & GIDC
xiv.			The project propreports on the stipulated Environment including result copies as well Regional Office Office of CPCB and Clearance and report shall be company.	e status ironment is of mon as by e of MoEF and SPCB six-mo	of contail Clean itored defined the mail of the contact of the copy of the cop	mpliance rance corata (both to the respective of Enviror compliance	of the nditions in hard spective ve Zonal nmental status	of compliconditions copies as of MoEF & A copy	gularly sub iance of t s including well as by & CC, the re of Environce status re	he stipula results of e- mail) to espective Z onmental	ted Environments the respectional Office Clearance	onmental d data (bo ctive Region e of CPCB e and si	Clearance of the in hard onal Office and GPCB.
xv.			The environme year ending 31s shall be subn Pollution Contract Environment amended subset website of the compliance of eand shall also be offices of MoEF	of March in the distribution of Board (Protection equently, company environments oe sent to	in Form- the cas prescon) Ru shall als along wental clead o the res	V as is man concerned cribed und les, 198 so be put with the sta arance con	ndated State Her the 6, as on the atus of ditions egional	submitted Gujarat P Environme subsequent Copy of Statement submits to with EC control	rironmental of for each to ent (Protently, the EC of the to the to the	financial yontrol Boaection) F Compliancd on commail, the E report to	ear ending ard as pre Rules, 198 e report pany web invironmen regional o	g 31 st Marescribed u 86, as and Envosite. Indust office of M	ch to the inder the amended ironment istry also ent along MoEF&CC.
xvi.			The project pro	ponent s	hall infor	rm the pub	olic that	EC issued	l on 15.01	2018, an	d advertis	ement re	leased on

the project has been accorded environmental 18.01.2018. clearance by the Ministry and copies of the letter available clearance are with SPCB/Committee and may also be seen at Website of the Ministry at http://moef.nic.in. This shall be advertised within seven days from the date of issue of the clearance letter, at least in two local newspapers that are widely circulated in the region of which one shall be in the vernacular language of the locality concerned and a copy of the same shall be forwarded to the concerned Regional Office of the Ministry EC Amendment on 15.01.2018 & following are the Name of Paper: - Gujarat Samachar advertisement details. **Date of Issue:** - 19.01.2018 Name of Paper: - Times of India In: - Gujarati language Date of Issue: - 19.01.2018 In: - English language TIMES CITY ઉ (જોઇસ કાંગ્રાસાટ (વડોદરા આવૃત્તિ) દાહોદમાં સ્માર્ટ સિટિ યોજનામાં માતાકીય તપાસ શરૂ સિટિ બસ સવિધા ચાલુ કરાશે લ્લા પાત્ર થયો પાત્ર લહેલ પાત્ર લાકન લાકન જિલ્લો છાબ તળાવ સુંદર બનાવાશે : દૂધમતી નદીનું પણ બ્યુટિફિકેશન નર્મદા જિલ્લામાં નોન-કનેકટીવીટીની સમસ્યા પ્રવાસનના વિકાસમાં અવરોધ ાજ્યીપમાન ઋગૃત નામીકે જિલ્લાના ઓનલાઈન ક્ષીયાદ ' નદીમાં અમાને પ્રધાનપધાનવા પર પ્રોતપપ મુધ્ય પ્રાવ કરી છે. પોઇચા પાસે શ્રધ્ધાળ સ્નાન કરી કપડાં નદીમાં છોડી દેતા The project authorities shall inform the Regional We have started manufacturing of Viscose Staple fibre in Febxvii. Office as well as the Ministry, the date of financial 22, Information given to BSE-NSE regarding completion and closure and final approval of the project by the commissioning of the plant. Project / plant activities are as concerned authorities and the date of start of the under. project.

		(1) Amended EC received on 17th Oct 2019,
		(2) Civil & Civil & another const. work started in Feb-2020.
		(3) Line commissioned in Feb-2022.
11.	The Ministry may revoke or suspend the clearance, at subsequent stages, if implementation of any of the above conditions is not satisfactory.	
12.	The Ministry reserves the right to stipulate additional conditions, if found necessary. The company in a time bound manner will implement these conditions.	Acknowledged
13.	The above conditions will be enforced, inter alia under the provisions of the Water (Prevention & Control of Pollution) Act, 1974, Air (Prevention & Control of Water Pollution) Act, 1981, the Environment (Protection) Act, 1986, Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016 and the Public Liability Insurance Act, 1991 along with their amendments and rules	(Prevention & control of pollution) Act-1977, the Air (Prevention & control of pollution) Act-1981, the Environment (Protection) Act- 1986, Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016 and the Public Liability Insurance Act-1991.

Note: Copy of the Monthly Environmental Monitoring reports by NABL accredited laboratory for Effluent and Emission for the last month of the compliance period i.e., Mar-25 is enclosed as **Annexure-6** for reference.

Compliance status on Environmental Clearance

MOEF Ref. Letter No.: J-11011/321/2016-IA II (I), Dated 16.08.2018

Compliance Status Report for "Environmental Clearance" Accorded by the MoEF For Grasim Cellulosic Division (GCD), Vilayat

Compliance status on Environmental Clearance MOEF Ref. Letter No.: J-11011/321/2016-IA II (I), Dated 16.08.2018

General Profile: -

Sr.	Stipulation				Compliance Sta	itus	
No.							
1	This has reference to your pr 18 th May, 2018 for amendmen project.	•					
2.	The Ministry of Environment, the proposal for environment letter dated 15 th January, 2013 (Grasim Cellulosic Division), to Fibre Unit (from 127750 TPA to 25 MW to 55 MW) and setting 36500 TPA at Plot No. 1, GIDC Bharuch (Gujarat). The revision/modification in the statement of the set therein regarding fuel required	tal clearance 8 in the favor the project fo to 255500 TP/ ng up Solvent Industrial Are amendment pecific condit	ride Area, Vilayat, Ltd (Gujarat). ple om Latitude: 21 deg t of Longitude: 72 d rict for	Taluka Vagra,	deg 47'11" North '2 deg 54'49" East		
				Tab	le-1		
	Products=>	Viscose Staple Fibre	Carbon Di Sulphide	Sulfuric Acid	Sodium Sulphate (Byproduct)	Power Generation	Solvent Spun Cellulosic Fibre (Excel Fibre)
	EC Amendment - As per EC No. J- 11011/463/2007-IA II (I), Dated 20.12.2007		23725	102200	83038	25 MW	-
	ndment - As per EC No. F. No. L/321/2016-IA-II(I) Pt Dated – 15.01.2018	255500	34675	182500	166076 to 210788	55 MW	-

EC Amendment – As per EC No. F. No. J- 11011/321/2016-IA-II(I) Pt Dated – 16.08.2018	255500	34675	182500	166076 to 210788	55 MW	-
EC Amendment - EC No. F. No. J- 11011/321/2016-IAII(I) EC issued on 17th October 2019 (Total Capacity after Expansion)	438000	65700	346750	348576 - 393288	55MW	36500
Total Production (Tons) – Oct-24 to Mar-25	208264	21502	88609	119257	25.66	NIL
Total Production (Tons) – Apr-24 to Sep-24	204667	18160	121639	114689	22.25	NIL

Note: State Environmental Impact Assessment Authority (SEIAA), Gujarat has issued an amendment vide letter no. SEIAA/Guj./EC/1(d), 4(d) & 5(f) /96/2011, dated 30-May-2011 & Letter No. SEIAA/GUJ/EC/1(d),4(d)&5(f)/98/2012 dt. 22.03.2012 for use of natural gas in place of charcoal in CS2 plant and 25MW powerplant which is installed by Grasim Chemical. As per the EC No. F. No. J-11011/321/2016-IAII(I) issued on 15.01.2018, remaining 30MW powerplant is installed by us. Kindly refer the Power generation details in above table.

3.	The proposal was considered by the Expert Appraisal Committee	
	(Industry 2) in the Ministry held on 25-27 June 2018. The	
	Committee after deliberations, has recommended for the	
	proposed amendment in the said environment clearance as under:	
10(iv)	The fuel requirement shall preferably be met through natural gas.	Due to consistent availability issue & less techno
	However, in case of gas supply constraints and or/not found	economic viability of natural gas supply, coal having
	economic viable, coal having Sulphur content less than 0.5% or the	sulphur content less than 0.5% is being used to meet
	in any case, adequate air pollution measures shall be installed to	the fuel requirement.
	meet the emission standards prescribed under the Environment	
	(Protection) Rules, 1986.	
	ETP biomass may be used to meet the fuel requirements for the	Noted
	captive power plant/boilers.	
	In any case, adequate air pollution measures shall be installed to	Electrostatic Precipitator (ESP) along with 125m height
	meet the emission standards prescribed under the Environment	stack is installed to meet the emission standards
	(Protection) Rules, 1986.	prescribed under the Environment (Protection) Rules,
		1986. Emission Monitoring is done by NABL accredited
		laboratory on monthly basis.
10(v)	Treated effluent of 7350 KLD shall be reused/recycled to meet the	Industry has installed RO plants for recycling of waste
	requirements for different industrial operations and the fresh	water. The average quantity of effluent treated &
	water demand shall accordingly be restricted to 28,000 KLD	recycled from Oct-24 to Mar-25 is 20037.63 m3/day,

please refer Table No consumption for	02. Fresh Water		
last six months (Oct'24 to Mar'25)	Waste	able No.02 Water Recycling (m3/day)	
restricted to	Month	RO Permeate	
16838.06 m3/day.	Oct'24	18336.06	
	Nov'24	20735.97	
	Dec'24	20641.94	
	Jan'25	20783.45	
	Feb'25	20357.04	
	Mar'25	19371.35	
	Avg.	20037.63	

4	Based on recommendations of the EAC, the Ministry of	Acknowledged
	Environment, Forest and Climate Change hereby accords approval	
	to the proposed amendment in the environment clearance dated	
	15 th January 2018, as stated in para 3 above, to the project for	
	expansion of Viscose Staple Fibre Unit, Captive Power Plant and	
	setting up Solvent Spun Cellulosic Fibre Unit by M/s. Grasim	
	Industries Ltd (Grasim Cellulosic Division) at plot No. 1, GIDC	
	Industrial Area Vilayat, Tehsil Vagra, District Bharuch (Gujarat).	
5	All other terms and conditions stipulated in the environment	Acknowledged
	clearance dated 15 th January 208 shall remain unchanged.	

Six Monthly Compliance Report of Environmental Clearance For

Environment Clearance - EC No. F. No. J-11011/321/2016-IAII (I); dated 17.10.2019

Environment Clearance - MOEF Ref. Letter No.: J-11011/321/2016-IA II (I), dated 16.08.2018

Environment Clearance - MOEF Ref. Letter No.: J-11011/321/2016-IA II(I)Pt, dated 15.01.2018

Environment Clearance - MOEF Ref. Letter No.: J-11011/463/2007-IA II (I), dated 20.12.2007



Submitted to: -

- Ministry of Environment Forest & Climate Change, (WR Office) Bhopal
- Ministry of Environment Forest & Climate Change, 407, Aaranya Bhavan, Sector-10, Gandhinagar
- Central Pollution Control Board, Zonal Office (Vadodara)
- 4. Gujarat Pollution Control Board-Bharuch

<u>Submitted By: -</u> Grasim Industries Limited

(Unit: - Grasim Cellulosic Division)

Plot No. 1 GIDC Vilayat Industrial Estate,

PO-Vilayat, Taluka-Vagra, Dist.: - Bharuch-

392012, Gujarat, India

Period: 01.10.2024 to 31.03.2025

Compliance Status Report for "Environmental Clearance" Accorded by the MoEF For Grasim Cellulosic Division (GCD), Vilayat

List of Annexure

Sr. No.	Title	Annexure No.
1	Brief Details of the CAP technology	Annexure-1
2	Existing plant species and proposed plant species for greenbelt development	Annexure-2
3	Structure of Environment Management Cell	Annexure-3
4	List of testing facilities available at Environmental Laboratory	Annexure-4
5	Environment Monitoring Program	Annexure-5
6	Environmental Monitoring Reports	Annexure-6

Compliance Status Report for "Environmental Clearance" Accorded by the MoEF For Grasim Cellulosic Division (GCD), Vilayat

-: Introduction: -

- 1. Grasim Industries Limited (GIL), incorporated on 25th Aug., 1947; is a flagship company of the Aditya Birla Group and India's pioneer in manufacturing of Viscose Staple Fibre (VSF) a man-made, biodegradable fibre with characteristics akin to cotton.
- 2. M/s. Grasim Industries Ltd. has four VSF Plants in India which are located at Nagda (Madhya Pradesh), Harihar (Karnataka), Kharach & Vilayat (Gujarat).
- 3. Grasim Cellulosic Division, Vilayat is the latest plant in the Pulp & Fibre business, commissioned in Apr-2014 which produces both grey VSF and specialty fibre. This plant is also producing specialty grade fibre.
- 4. The Company's main production is Viscose Staple Fibre, Sodium Sulphate, Sulphuric Acid, Carbon-Disulphide.
- 5. All the operation related permits, including Environmental Clearance, Forest Clearance from MOEF&CC and Consents to Establish (CTE) & Consent to Operate (CTO) obtained from Gujarat Pollution Control Board, are in place.
- 6. Environmental quality monitoring in & around the project site is being carried out by GPCB & NABL approved Laboratory on a regular basis.
- 7. 04 No. of Ambient Air Quality Monitoring Stations (AAQMS) and Environmental Parameter Display Board at main gate has been established.
- 8. Continuous Emission Monitoring System is installed in process stacks of Rayon (Fibre) plant, H2SO4 acid plant, CS2 Plant for regular monitoring of CS2, SO2 etc.
- 9. Online TOC, pH & flow meters installed at the outlet of ETP, before discharging treated effluent to GIDC pipeline.
- 10. Green belt is being developed as per the CPCB guidelines to curb the emission and also to provide an aesthetic look.
- 11. Point wise compliance status of Environmental Clearance for GCD, Vilayat is furnished herewith.

Compliance status on Environmental Clearance

MOEF Ref. Letter No.: F. No. J-11011/321/2016-IAII (I); EC issued on 17.10.2019

Compliance Status Report for "Environmental Clearance" Accorded by the MoEF For Grasim Cellulosic Division (GCD), Vilayat

Compliance status on Environmental Clearance EC No. F. No. J-11011/321/2016-IAII (I); EC issued on 17th October 2019

Sr. No.				Stipulation	Compliance Status		
1			•	• •	ID2 /58913 /2016, he above subject.	Acknowledged	
2		-			has considered the pansion of Viscose	Industry is setup at Plot No.1, GIDC Industrial Area, Vilayat, Taluka Vagra, District Bharuch (Gujarat).	
	3,46,7 Indust	'50TPA) and Ca	rbon- Disul _l n Cellulosic I	ohide (34675 Division) in an	PA) by M/s Grasim 63 ha at Plot No.1, (Gujarat).	Latitude: 21 deg 46'8" and 21 deg 47'11" North Longitude: 72 deg 53'18" and 72 deg 54'49" East	
3	The de	etails of existing	/ proposed p	products are as	s under: -		
	Sr. No.	Name of Products (Unit)	Existing Capacity (as per EC dated 20 th Dec 2007)	Granted Capacity (as per EC dated 15 th Jan 2018)	Project proposed / Additional Capacity	Total Capacity after Expansion	Details of the production during reporting period is as under; Note: 25MW powerplant which is the part of EC No. J-
	1	Viscose Staple Fib	re (TPA)				11011/463/2007-IA II (I), dated 20-12-2007 has been
		Existing	127750	127750	No Change	438000	transferred to Grasim Chemical Division.
		De- bottlenecking	-	36500	No Change		Balance capacity i.e. 30MW powerplant is installed by Industry
		New Machine	-	91250	182250		Kindly refer the power generation details in above table.
		Total	127750	255500	182250		*30MW powerplant commissioned in Feb-2022.
	2	Solvent Spun	Nil	36500	Nil	36500	

	Cellulosic Fibre (Excel Fibre) TPA													
Asso	ociated Activities*		1	1	•									
3	Sulphuric Acid	102200	1825	500	164250 34		346750							
	(TPA)					(182	500– 164250)							
4	Carbon- Disulphide (TPA)	23725	346	75	31025	(34	65700 4675+31-25)							
5	Sodium Sulphate (by product) TPA	83038	16607 2107		182500 34857 (16		(1		38		576 – 393288 (166076 – 788+182500)			
6	Captive Power Plant (MW)	25	55	i	Nil		55							
*EC	is not required as per	EIA Notification	n 2006; as	amended fro	om time to t	ime								
	Product	ts=>		Viscos e Staple Fibre	Carbon Sulphid		Sulfuric Acid	Sodium Sulphate (Byproduct)	Solvent Spun Cellulosic Fibre (Excel Fibre)	Power Generation				
110	EC Amendment -E 011/321/2016-IAII(I) Oct'20	, EC issued o		438000	65700	o	346750	348576 - 393288	36500	55MW				
Tota	l Production (Tons)	– Oct-24 to	Mar-25	208264	21502	2	88609	119257	25.66	NIL				
Tota	l Production (Tons)	– Apr-24 to	Sep-24	204667	67 18160		121639	114689	22.25	NIL				
*30N	/IW powerplant comm	issioned in Fel	o-2022											
	ting land area is 2	•		•	additional	land	No addition	nal land is required f	or the proposed expar	ision.				
will	be required for th	ne proposed	expans	ion.										
	estimated projec viously envisaged			ores agair	nst the		Estimated Project cost is Rs. 3500 crores.							
measures is Rs. 420 crores against Rs 150 crores and the recurring cost (operational and maintenance) will be about Rs. 70 crores						managemer spent as pe	nt. At present capital	d on annual basis fo cost of approx. Rs. 550 en in EC-2007 & EC-20 b. 01 .	crores is alre					
						Tab	ole No. 01							

		F	und Utili	ze for en	vironmen	tal N	Manage	ement a	re under (F	Rs. In Crore	<u> </u>		
	Sr. Particular		C	Орех	Орех	0	рех	Opex	Орех	Opex	Орех	Орех	Орех
	No.	Particular	Capex	FY-17	FY-18	F۱	Y-19	FY-20	FY-21	FY-22	FY-23	FY-24	FY-25
	1	Effluent Treatment	79.00	11.50	10.56	1:	1.00	11.00	13.35	14.85	35.60	38.63	30.67
		Air Pollution Control											
	2	(Including H2S Scrubbing	472.00	03.50	04.00	03	3.30	05.17	14.35	14.23	162.85	150.80	118.38
		Plant & CAP Plant)											
	3	Green Belt Development	00.50	00.50	00.55	0:	1.30	0.51	0.13	0.08	1.09	3.83	1.20
	4	Waste Management	01.50	00.50	00.60	0:	1.60	3.07	2.90	1.78	4.37	2.97	2.98
	To	otal Amount (In Crore) =>	552.79	16.00	15.71	17	7.20	19.75	30.73	30.94	203.91	196.23	153.23
	km. Na	es, Tiger/Elephant reserves armada River flows at 9 km water requirement is 52,50	n in south	-south we	est.		from t of 9.0	he proje km in SS	•	mada River of from the p	(estuarine project site	region) is a	vithin 10 km t a distance
1	requir	ement of 38,500m3/day p	roposed t	to be met	from Guja	arat	t GIDC. Average water consumption for Water Consumption (m3/c					n (m3/day)	
	Indust	rial Development (GIDC) p	ipeline.				last six months (Oct'24 to Mar'25) is 16838.06 m ³ /day, sourced from				Month		Average
											Oct'2		6203.61
							Narma	da River	and supplie	ed by GIDC.	Nov'		7395.53
							Water			etails are	Dec'		5782.97
							tabulat		ble No.02.		Jan'2 Feb'2		.5230.84 .6511.96
											Mar'		9903.42
											Avg		.6838.06
							Follow	ing are th	ne GIDC offe	r cum allotn			
								tter No.			GIDC/POJ/		IM/575
											Dated 06 th	December-	2006
							Agreement for Water Supply 15.60 MLD						

	Effluent Discharge	e	12.48 MLD			
	2) Letter No.			GIDC/SE/CG//BRH/1236 Dated 29 th December-2016 25.00 MLD 19.40 MLD		
	Agreement for W	ater Supply	25.00 MLD			
	Effluent Discharge	9	19.40 MLD			
	3) Letter No.		GIDC/BRH/\	WS/494		
			Dated 3rd.J	uly,2019		
	Agreement for W	ater Supply	35.00 MLD			
	Effluent Discharge	9	23.00 MLD			
Effluent - 40,000 m3/day will be treated in the Effluent Treatment	The average quar	ntity of effluent t	reated & recyc	cled back to VSF P		
Plant of which around 14,000m3/day of treated effluent will be	from Oct-24 to M	ar-25 is 20037.63	m3/day.			
recycled back to VSF plant and remaining 26000m3/day will be	Kindly find effluent discharge & waste water recycling data f					
discharge through GIDC common Pipeline into deep Sea after	-	_	Table No. 04 respectively.			
recovery of water from the effluent.	reporting period	in Table No. 03 8	& Table No. 04	respectively.		
		in Table No. 03 8 No.03	1 -1	respectively.		
	Table		Tal			
	Table	No.03	Tal	ble No.04		
	Table Effluent Disch	No.03 narge (m3/day)	Tal Waste Wate	ole No.04 er Recycling (m3/day)		
	Table Effluent Disch	No.03 narge (m3/day) Average	Tal Waste Wate Month	ole No.04 er Recycling (m3/day) RO Permeate		
	Table Effluent Disch Month Oct'24	No.03 narge (m3/day) Average 12480.10	Waste Wate Month Oct'24	ple No.04 Pr Recycling (m3/day) RO Permeate 18336.06		
	Table Effluent Disch Month Oct'24 Nov'24	No.03 narge (m3/day) Average 12480.10 12249.85	Month Oct'24 Nov'24	RO Permeate 18336.06 20735.97		
	Table Effluent Disch Month Oct'24 Nov'24 Dec'24	No.03 harge (m3/day) Average 12480.10 12249.85 12612.48	Month Oct'24 Nov'24 Dec'24	RO Permeate 18336.06 20735.97 20641.94		
	Table Effluent Disch Month Oct'24 Nov'24 Dec'24 Jan'25	No.03 harge (m3/day) Average 12480.10 12249.85 12612.48 12570.59	Month Oct'24 Nov'24 Dec'24 Jan'25	RO Permeate 18336.06 20735.97 20641.94 20783.45		
	Table Effluent Disch Month Oct'24 Nov'24 Dec'24 Jan'25 Feb'25	No.03 harge (m3/day) Average 12480.10 12249.85 12612.48 12570.59 12966.61	Month Oct'24 Nov'24 Dec'24 Jan'25 Feb'25	RO Permeate 18336.06 20735.97 20641.94 20783.45 20357.04		
	Table Effluent Disch Month Oct'24 Nov'24 Dec'24 Jan'25 Feb'25 Mar'25	No.03 harge (m3/day) Average 12480.10 12249.85 12612.48 12570.59 12966.61 12855.81 12622.57	Month Oct'24 Nov'24 Dec'24 Jan'25 Feb'25 Mar'25 Avg.	RO Permeate 18336.06 20735.97 20641.94 20783.45 20357.04 19371.35 20037.63		
recovery of water from the effluent.	Table Effluent Disch Month Oct'24 Nov'24 Dec'24 Jan'25 Feb'25 Mar'25 Avg.	No.03 harge (m3/day) Average 12480.10 12249.85 12612.48 12570.59 12966.61 12855.81 12622.57 is sourced from	Month Oct'24 Nov'24 Dec'24 Jan'25 Feb'25 Mar'25 Avg.	RO Permeate 18336.06 20735.97 20641.94 20783.45 20357.04 19371.35 20037.63 installed under		

7	The project/activity is covered under Category A of item 5(d) 'Manmade fibres manufacturing' of the schedule to the Environment Impact Assessment (EIA) Notification, 2006 under category 'A' and requires appraisal/approval at central level in the Ministry.	Acknowledged
8	Standard Terms of Reference for the project was issued on 24th August, 2018. Public hearing is exempted as the project site is located inside the notified industrial area.	Acknowledged
9	The proposal was considered by the sectorial Expert Appraisal Committee (Industry-2) in the meeting held on 26-28 June 2019, wherein the project proponent and their accredited consultant presented the EIA/EMP report. The committee found the EIA/EMP report complying with the ToR and recommended the project for grant of environmental clearance.	Acknowledged
10	Based on the proposal submitted by the project proponent and recommendations of the EAC (Industry-2), Ministry of Environment, Forest and Climate Change hereby accords environmental clearance to the project for expansion of Viscose Staple Fibre (2,55,500 to 4,38,000TPA), Sulphuric Acid (1,82,500 to 3,46,750TPA) and carbon- Disulphide (34675 to 65,700 TPA) by M/s Grasim Industries Ltd (Grasim Cellulosic Division) at Plot No. 1, GIDC Industrial Area Vilayat, Taluka Vagra, District Bharuch (Gujarat), under the provisions of EIA Notification, 2006, subject to the compliance of terms and conditions, as below: -	Acknowledged
(a)	Necessary permission as mandated under Water (Prevention and Control of Pollution) Act, 1974 and the Air (Prevention and Control of Pollution) Act, 1981, as applicable from time to time, shall be obtained from the state Pollution Control Board.	Industry has obtained Consent to Establish and Consent to Operate from GPCB and renewal of the same will be done time to time under Water (Prevention and Control of Pollution) Act, 1974 and the Air (Prevention and Control of Pollution) Act, 1981

(b)	Treated effluent shall be recycled back to VSF Plant and remaining 26000m3/day will be discharged through GIDC common pipeline into deep sea after recovery of water from the effluent.	Industry has installed RO plants for recycling of waste water. The average quantity of treated effluent recycled back to VSF Plant during Oct-24 to Mar-25 is 12622.57 m3/day. (Please refer above Table No. 04). Treated effluent is discharged through GIDC common pipeline into
		deep sea after recovery of water from the effluent.
(c)	Necessary authorization required under the Hazardous and other Wastes (Management and Trans- Boundary Movement) Rules, 2016, Solid Waste management Rules, 2016 shall be obtained and the provisions contained in the Rules shall be strictly adhered to.	Necessary authorization as per the Hazardous and other Wastes (Management and Trans- Boundary Movement) Rules, 2016 is taken from Gujarat Pollution Control Board, Gandhinagar vide the CCA/CTO, reference No GPCB/BRCH/CCA-70(8)B/ID-36507/ dated 30.04.2025 and abiding all the conditions as per given in the CCA.
(d)	To control source and the fugitive emissions, suitable pollution control devices shall be installed to meet the prescribed norms and/or the NAAQS. The gaseous emission shall be dispersed through stack of adequate height as per CPCB/SPCB guidelines.	Industry has 175-meter-tall stack designed as per CPCB/SPCB guidelines for proper dispersion of gasses from manufacturing process. To arrest fugitive emission various controls are provided such as shutters at Spinning Machine, waste water transfer to ETP through pipelines and covered drains, scrubber systems and waste gas recovery plants. i.e. H2S Scrubbing Plant and Carbon Adsorption Plant for CS2 recovery.
(e)	Solvent management, if any, shall be carried out as follows: (i) Reactor shall be connected to the chilled brine condenser system. (ii) Reactor and solvent handling pump shall have mechanical seals to prevent leakages. (iii) The condensers shall have provided with sufficient HTA and residence time so as to achieve more than 98% recovery. (iv) Solvents shall be stored in separate space specified with all safety measures. (v) Proper earthing shall be provided in all the electrical equipment wherever solvent handling is done. Entire plant shall be flame proof. The solvent storage tanksshall be provided with breather valve to prevent losses	At present, Industry is not handling any solvent. As and when any solvent will be used in process, we shall abide the prescribed conditions.

(f)	Total fresh water requirement shall not exceed 38,500m3/day proposed to be met from Gujarat Industrial Development (GIDC) pipeline. Pipeline Prior permission in this regard shall be obtained from the concerned regulatory authority.	Average fresh water consumption quantity from Oct-24 to Mar-25 is 16838.06 m3/day (Please refer above Table No.02) Necessary authorization for required quantity of water is taken from Gujarat Industrial Development (GIDC) vide their letter No. GIDC/BRH/WS/494 dated 3rd.July 2019.
(g)	Rain water harvesting structures shall be provided to reduce dependency of fresh surface water for industrial purpose. In any case, no ground water shall be used for the plant.	Rain water harvesting structures are provided in all applicable areas. Industry is not using ground water for the plant.
(h)	The storm water from the premises shall be collected and discharged through a separate conveyance system.	Separate conveyance system for the discharge of storm water is provided.
(i)	Hazardous chemicals shall be stored in tanks, tank farms, drums, carboys etc. Flame arresters shall be provided on the tank farm, and solvent transfer through pumps.	Hazardous chemicals are stored in tanks, drums, carboys. Earthing has been provided to tanks. Flame arresters made compulsory for vehicles carrying Hazardous chemicals.
(j)	Process organic residues and spent carbon, if any shall be sent to cement industries. ETP sludge, process inorganic & evaporation salt shall be disposed of to the TSDF.	Industry has applied for amendment in the condition vide our submission dated 24.02.2020. This condition needs to be amended as ETP Inorganic Sludge (Gypsum) shall be sent to Cement Industry/TSDF/Co-processing unit, Process organic residue & spent carbon and ETP Bio (Organic) sludge to be burnt in power plant or sent to TSDF / Co- processing unit. At present, industry is following CCA issued by GPCB for utilization/ disposal of hazardous waste.
(k)	The company shall strictly comply with the rules and guidelines under Manufacture, storage and Import of Hazardous Chemicals (MSIHC) Rules, 1989 as amended time to time. All transportation of Hazardous Chemicals shall be as per Motor Vehicle Act (MVA), 1989.	Industry is strictly complying the rules and guidelines under the Manufacture, storage and Import of Hazardous Chemicals (MSIHC) Rules, 1989 as amended time to time. Industry has ensured compliance of provisions made under the Motor Vehicle Act (MVA), 1989 for hazardous chemical transportation. Industry has obtained license for storage of 60 KL light diesel oil and storage of 10 KL HSD at 2 locations in plant area for DG sets from Deputy Controller of Explosive from M/s PESO (PETROLEUM & Explosives Safety Organization). Industry has factory license No. 17564 valid up to

		31.12.2	2026 issued by	DISH.			
	The company shall undertake waste minimization measures as below;	The wa	ıste minimizat	ion measures are ta	aken as below;		
	(i) Metering and control of quantities of active ingredients to minimize waste		•	onitoring and conti nimize the generat	rol over usages of ingred ion of waste.	lients	
	(ii) Reuse of by-products from the process as raw materials or as raw material substitutes in other processes.	Industry has installed H2S Scrubbing Plant for abatement H2S from Spinning offgases of VSF manufacturing. Sulphur is recovered during this process and reutilized as Raw Material for production of Sulphuric Acid and CS2.					
(1)	(iii) Use of automated filling to minimize spillage	Industry has adopted automated filling /shifting of chemicals / raw material and avoided manual intervention wherever possible to minimize the spillage.					
	(iv) Use of close Feed system into batch reactors.	Close feeding system is provided for chemicals / raw materials at point of use to minimize the waste generation.					
	(v) Venting equipment through Vapour recovery system.	Industry has installed CAP Plant for recovery of CS2 from Spinning off gases. Scrubbers are provided at vents of chemical storage tank to recover the vapors.					
	(vi) Use of high-pressure hoses for equipment clearing to reduce wastewater generation.	Industry has adopted 3R principle to reduce the waste wate generation. High pressure hoses are also used for the cleaning of equipment.					
	The green belt of at least 5-10m width shall be developed in more than 33% of the total project area, mainly along the plant periphery, in downward wind direction, and along road sides etc. Selection of plant species shall be as per the CPCB guidelines in consultant with the State Forest Department.	with pe	eriphery of pla Its have been	nt, road sides and o	ntation has been done appen area. Total 1,07,500 25. Existing plantation d No.5	onos.	
		Table No. 05					
		Sr. No	Duration	Area (Acre.) for Plantation	Number of Plant		
(m)		1	Existing (Till FY;	31	37,500 Plants		

3	2019-20 2020-21	10	10,000 Plants 10,000 Plants
5	2021-22	10	10,000 Plants
6	2022-23	10	10,000 Plants
7	2023-24	10	10,000 Plants
8	2024-25	10	10,000 Plants
0			

Details of existing plant species and proposed plant species along with Plant species for odor management, Gaseous emission (SO2 & NOx) tolerant species is enclosed as **Annexure-2.** Plant species are selected as per the directives of CPCB & DFO. Photograph of the existing green belts is attached below.

GLIMPS OF PLANTATION







At least 0.25% of the total project cost shall be allocated for Corporate Environment Responsibility (CER) and item-wise details along with time bound action shall be prepared and submitted to the Ministry's Regional office.

Total Project cost is Rs 3500 Crore and accordingly Rs. 8.75 Crores (0.25% of Project cost) is allocated for Corporate Environment Responsibility (CER). Based on the OM issued by MOEF Impact assessment Division— F. No, 22-65/2017-IA.III, dated 30th September

		,
		2020, we have invested Rs. 173.67 Crore for the installation of H2S
		Scrubbing Plant for H2S abatement & Odour control and CAPplant for
		CS2 recovery. Investment of Rs. 173.67 Crore is done for the
		betterment of Environment in and around plant as well as the
		environment of surrounding villages. Installation of H2S Scrubbing
		Plant and CAP plant has brought down the CS2 and H2S emission much
		below the regulatory norms. These are most advanced close-loop
		technologies to recover and recycle CS2. Industry has significantly
		reduced its emissions and achieve >90% recovery in terms of Sulphur
		and recycle it back to the process. Through Installation of above two
		Best Available Technologies, Industry has achieved the EUBAT
		emission norms which is far below the regulatory norms.
(o)	For the DG sets, emission limits and the stack height shall be	DG sets are installed for emergency power supply during power
	conformity with the extant regulations and the CPCB guidelines.	failure. Appropriate stack height of 30 m is provided and emission
	Acoustic enclosures shall be provided to DG set for controlling the	from DG set is meeting the CPCB norms for the existing DG sets.
	noise pollution.	
	The unit shall make the arrangement for protection of possible	To protect the possible fire hazards during manufacturing process in
(p)	fire hazards during manufacturing process in material handling.	material handling robust firefighting system is provided.
	Firefighting system shall be as per the norms.	
	Occupational health curvaillance of the workers shall be done on	Industry has established an Occupational Health Center (OHC) and
(q)	Occupational health surveillance of the workers shall be done on	conducts health surveillance of the workers on a regular interval.
	a regular basis and records maintained as per the Factories Act.	Records are maintained at OHC as per the Factories Act.
	Storage of raw materials shall be either stored in silos or in	Raw materials are stored in the silos / covered areas only to prevent
(r)	covered areas to prevent dust pollution and another fugitive	dust pollution and other fugitive emissions.
	emissions.	

(0)	Continuous online (24v7) monitoring systems for steel, systems	Continuous online (24v7) monitoring system for steel ansiesien and
(s)	Continuous online (24x7) monitoring system for stack emission	, ,
	shall be installed for measurement of flue gas discharge and the	installed for measurement of gas discharge and the pollutants
	pollutants concentration, and the data to be transmitted to the	concentration, date transmission with CPCB and SPCB server are
	CPCB and SPCB server. For online continuous monitoring of	under progress.
	effluent, the unit shall install web camera with night vision	Industry has installed flow meter at pipeline carrying treated effluent
	capacity and flow meters in the channel/drain carrying effluent	to GIDC pumping station. Industry has also provided TOC meter at
	within the premises.	treated effluent discharge pipeline instead of web camera for
		continuous monitoring.
		LED based lighting & solar lights are preferred in the newly
(t)	The energy sources for lighting purpose shall preferably LED	commissioned plant.
	based.	
(u)	Transportation of raw materials/products should be carefully	Transportation of raw materials/products is being carried out in GPS
(u)	performed using GPS enabled vehicles.	enabled vehicles.
10.1	The grant of Environmental Clearance is further subject to compli	ance of other generic conditions as under:
	The project authorities must strictly adhere to the stipulations	Industry has ensured compliance of all stipulations made by GPCB,
i.	made by the State Pollution Control Board (SPCB), State	State Government and other regulatory authorities. Strict compliance
	Government and/or any other statutory authority.	to regulatory provisions is ensured all the time.
	No further expansion or modifications in the plant shall be carried	
	out without prior approval of the Ministry of Environment, Forest	modification.
l	and Climate Change. In case of deviations or alterations in the	
ii.	project proposal from those submitted to this Ministry for	
	clearance, a fresh reference shall be made to the Ministry to	
	assess the adequacy of conditions imposed and to add additional environmental protection measures required, if any	
	The locations of ambient air quality monitoring stations shall be	Four Ambient Air Quality Monitoring Station (AAQMS) are installed in
	decided in consultation with the State Pollution Control Board	consultation with GPCB in nearby villages at Derol, Vilayat, Sarnar and
iii.	(SPCB) and it shall be ensured that at least one station each is	Argama. These AAQMS are covering all four directions and location
	installed in the upwind and downwind direction as well as where	where maximum ground level concentrations is anticipated.
	maximum ground level concentrations are anticipated	
	The National Ambient Air Quality Emission Standards issued by	The National Ambient Air Quality Emission Standards issued by the
iv.	the Ministry vide G.S.R. No. 826(E) dated 16 th November,	Ministry vide G.S.R. No. 826(E) dated 16 th November, 2009 is

2009 shall be complied with.	compiled by Industry.

The overall noise levels in and around the plant area shall be kept well within the standards by providing noise control measures including acoustic hoods, silencers, enclosures etc. on all sources of noise generation. The ambient noise levels shall conform to the standards prescribed under Environment (Protection) Act, 1986 Rules, 1989 viz. 75 dBA (day time) and 70 dBA (night time)

Industry has provided relevant noise control measures such as acoustic hoods, silencers, acoustic enclosures at all nose sources. Ambient noise inside the plant and around the plant in nearby villages conforms to the Environment (Protection) Act, 1986 Rules, 1989.

The Noise level (dB) at workroom for last 6 months is tabulated as under Table No. 06:

Sound Level Meter: - SL 4023 SD

Reference Standard: - Sound Level Calibrator, Sr. No. 3421624, Calibration Valid Up to: 01.02.2026

	Table no. 06 (UOM – dBA)												
	Oct'24		Nov'24		Dec	Dec'24		Jan'25		Feb'25		Mar'25	
Area	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	
	Time	Time	Time	Time	Time	Time	Time	Time	Time	Time	Time	Time	
Norms=>	75	70	75	70	75	70	75	70	75	70	75	70	
Main Gate	60.8	52.6	57.5	52.2	57.0	51.3	56.3	50.9	57.4	51.5	56.8	50.8	
Material Gate	61.0	54.4	58.1	53.6	57.7	53.2	57.6	52.3	58.4	53.6	57.3	52.6	
ОНС	61.8	53.1	59.4	52.9	58.6	52.3	58.6	51.7	58.7	52.7	58.2	51.5	
Derol	51.6	39.7	53.8	42.9	53.7	42.2	53.0	41.7	53.8	43.0	53.5	41.9	
Vilayat	50.2	42.2	51.5	43.8	51.2	43.6	50.8	43.3	51.2	44.5	50.8	43.1	
Sarnar	53.2	43.1	52.8	44.1	52.6	43.4	52.1	43.2	52.8	43.5	52.1	42.7	
Argama	50.9	41.1	53.6	43.6	52.7	43.4	52.5	42.9	53.1	44.2	52.5	43.3	
Min	50.2	39.7	51.5	42.9	51.2	42.2	50.8	41.7	51.2	43.0	50.8	41.9	
Max	61.8	54.4	59.4	53.6	58.6	53.2	58.6	52.3	58.7	53.6	58.2	52.6	
Avg.	55.6	46.6	55.2	47.6	54.8	47.1	54.4	46.6	55.1	47.6	54.5	46.6	

Note: All values are well below the prescribed norms.

vi

The Company shall harvest rainwater from the roof tops of the buildings to recharge ground water, and to utilize the same for different industrial operation within the plant.

Survey has been carried out for roof top rain water harvesting. The Job has been already taken up at locations nearby to reservoir, rain water from the roof tops is diverted to fresh water reservoir. Following are the tentative details of water saving done through implementation of Rainwater harvesting scheme.

	Tentative Water Saving through Rain Water Harvesting (Oct-24 to Mar-25)										
ı	Reservoir Area-1	Reservoir Area-2	Non-Process Building Area	Are	a	Rainfall			Rain Water Harvesting		
		M2			(MM)	(CM)	(Mtr.)	M3			
	86400 43200 26762 1563				62	30.9	3.09	0.0309	4831.58		
vii	Training shall be aspects of chemic	health	_	_	are imparted to	o all employe	es on safety and health				
	Pre-employment	We h	ave establish	ned an Occupat	ional Health	Center (OHC). Prior to					

all employees shall be undertaken on regular basis.

We have established an Occupational Health Center (OHC). Prior to joining, pre-employment checkup is done and Routine periodical medical examinations for all employees are carried out twice in a year. Any employee found with some deviation in health parameter is counselled for health improvement on next day and followed up till deviated parameter is normal. At present, no employee is living with deviated uncontrolled disease. Details of test conducted and numbers of employee covered is summarized in **Table No. 08.**

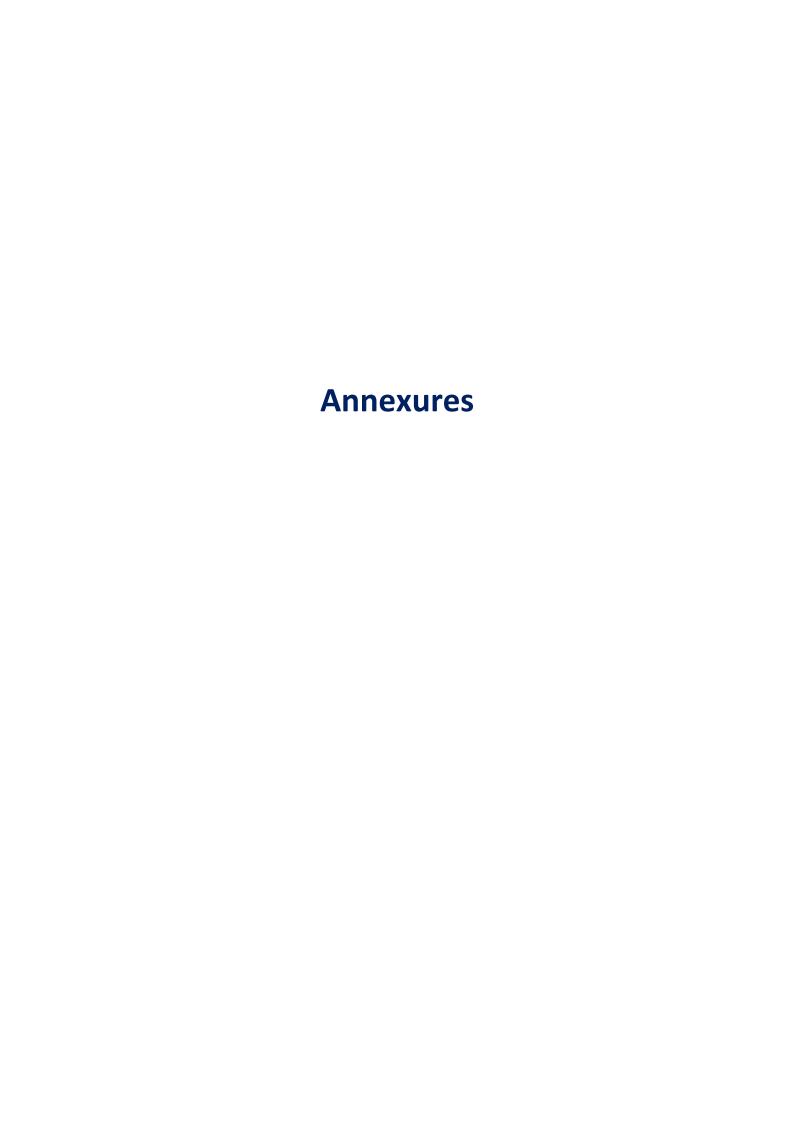
Table No. 07								
Total Employees	1430							
System	Numb	er of employ	/ees	Reference used to mark for deviation				
	Normal	Abnormal	Total	Reference Value				
Cardiovascular System								
Pulse Rate	1404	26	1430	>100/min				
Blood Pressure	1381	49	1430	>160/100				
ECG	1413	17	1430	Various Parameters in ECG Report				
Systemic Examination	1430	0	1430	Physical Examination (Inspection, Palpation and Auscultation)				
Respiratory System								
Systemic Examination	1430	0	1430	Physical Examination (Inspection, Palpation and Auscultation)				
Pulmonary Function Test	1430	0	1430	PFT Report Review				

Central Nervous System				
	1430	0	1430	Various Parameters (Sensory and Motor system including reflexes)
Liver Function Test				
SGPT	1419	11	1430	>100
SGOT	1428	2	1430	>100
Total Bilirubin	1426	4	1430	>1.0
Kidney Function Test				
S. Creatinine	1428	2	1430	>1.4mg%
Blood Urea	1423	7	1430	>45mg%
Urine Routine and Microscopy testing	1427	3	1430	Urine R&M Report
Hearing Test				
Ear Examination	1430	0	1430	Physical Examination of ear
Audiometry	1430	0	1430	Review of SPL at various frequencies
Metabolism				
Random Blood Sugar	1428	2	1430	>160mg%
HbA1c	1429	1	1430	>7.0
Complete Blood Count	1429	1	1430	CBC & Smear Report
S. Uric Acid	1409	21	1430	>7.5 mg%
Lipid Profile	1302	128	1430	>240mg%
Vision Test				
Distant Vision	1401	29	1430	>6/18 in one eye
Near Vision	1415	15	1430	>N8 in one eye
Color Vision	1424	6	1430	< 18 plates out of 38

xii	A copy of the clearance letter shall be sent by the project proponent to concerned Panchayat, Zilla Parishad/Municipal Corporation, Urban local Body and the local NGO, if any, from whom suggestions/ representations, if any, were received while processing the proposal.					
xiii	The project proponent shall also submit six monthly reports on the status of compliance of the stipulated Environmental Clearance conditions including results of monitored data (both in hard copies as well as by e mail) to the respective Regional Office of MoEF & CC, the respective Zonal Office of CPCB and SPCB. A copy of Environmental Clearance and six-monthly compliance status report shall be posted on the website of the company.	We have submitted the six-monthly compliance report to the MoEFCC Regional Office Bhopal and Gandhinagar, CPCB Zonal Office, Vadodara and GPCB. A copy of Environmental Clearance and six-monthly compliance status report is also posted on the website of the company. Compliance Period Date of Report Submission				
	status report shall be posted on the website of the company.	Apr-24 to Sep-24	27.11.2024			
xiv	The environmental statement for each financial year ending 31st March in Form-V as is mandated shall be submitted to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently, shall also be put on the website of the company along with the status of compliance of environmental clearance conditions and shall also be sent to the respective Regional offices of MoEF&CC by e-mail.	regularly being submitted to the GPCB & E-mailed to Regional of MoEF&CC, Bhopal. The same is also posted on the composite along with the status of compliance of environments clearance conditions.				
xv	The project proponent shall inform the public that the project has been accorded environmental clearance by the Ministry and copies of the clearance letter are available with the SPCB/Committee and may also be seen at Website of the Ministry at http://moef.nic.in. This shall be advertised within seven days from the date of issue of the clearance letter, at least in two local newspapers that are widely circulated in the region of which one shall be in the vernacular language of the locality concerned and a copy of the same shall be forwarded to the concerned Regional Office of the Ministry	released on 24.10.2019 in two loc	on 17.10.2019, and advertisement al newspapers. Please refer copy of w. Industry has shared Information topal vide letter dated 25.10.2019.			
	Name of Paper: - The Times of India, Ahmedabad	Name of Paper: - Divya Bhaskar, Vado	odara			
	Date of Issue: - 21.10.2019 In: - English language	Date of Issue: - 21.10.2019 In: - Gujarati language				

	PUBLIC NOTICE ENVIRONMENTAL CLEARANCE It is hereby informed that the Ministry of Environment, Forest and Climate Change, IA-II Division, Government of India, New Delhi, has accorded Environmental Clearance for Expansion of Viscose Staple Fibre Unit at Plot No. 1, GIDC Industrial Area, Vilayat, TalukaVagra, District Bharuch (Gujarat) of M/s Grasim Industries Limited (Grasim Cellulosic Division) vide letter, F. No. J-11011/321/2016-IAII (I), Dated: 17th October-2019, under the provision of EIA Notification, dated 14thSeptember-2006. Copies of the clearance letter are available with the GPCB/Committee and may also be seen at website of the Ministry at http://moef.nic.in. Date: 21/10/2019 Place: VILAYAT GRASIM INDUSTRIES LTD. (Grasim Cellulosic Divn.)	જાહેર સૂચના પર્યાવરક્ષ મંજુરી આ સાથે જજ્ઞાવામાં આવે છે કે પર્યાવરક્ષ વન અને કલાઇમેન્ટ ચેન્જ મંત્રાલય IA-II વિભાગ, ભારત સરકાર, નવી દિલ્લી લારા મેસમે ગ્રાસીમ ઇન્ડસ્ટ્રીસ લિમિટેડ (ગ્રાસીમ સેલ્યુલોઝીક ડીવીઝન) પ્લોટ નં-૧, જ્ર. આઇ.ડી.સી ઇન્ડસ્ટ્રીયલ એરીપા, વિલાયત, તા. વાગરા, જ્રા. ભરૂચ (ગુજરાત) ખાતે વિસ્કોસ સ્ટેપલ કાઇભર યુનિટ પ્લાન્ટના વિસ્તરક્ષ માટેની પર્યાવરક્ષીય મંજુરી તારીખ ૧૭ ઓક્ટોબર ૨૦૧૯ ના પત્ર કમાંક જ્ર-૧૧૦૧૧/૩૨૧/૨૦૧૯-IA II(I) લારા ઈ.આઇ.એ. નોટીફીકેશન તારીખ ૧૪ સપ્ટેમ્બર ૨૦૦૬ જોગાવઈ હેઠળ આપેલ છે. ઉપરોક્ટ પત્રની નકલ જપીસીબી/કમીટી ઉપરાંત MoEF ની વેબસાઈટ http://moef.nic.in ઉપર ઉપલબ્ધ છે. તારીખ: ૨૧/૧૦/૨૦૧૯ સ્થળ: વિલાયત મેસર્સ ગ્રાસીમ ઇન્ડસ્ટ્રીસ લિમિટેડ (ગ્રાસીમ સેલ્યુલોઝીક ડીવીઝન)
11	The Ministry reserves the right to stipulate additional conditions, if found necessary at subsequent stages and project proponent shall implement all the said conditions in a time bound manner. The ministry may revoke or suspend the environment clearance, if implementation of any of the above condition is not found satisfactory.	
12	The above conditions will be enforced, inter alia under the provisions of the Water (Prevention & Control of Pollution) Act, 1974, Air (Prevention & Control of Water Pollution) Act, 1981, the Environment (Protection) Act, 1986, Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016 and the Public Liability Insurance Act, 1991 read with subsequent amendment therein.	Noted, Industry is complying all the applicable provisions of the Water (Prevention & control of pollution) Act-1977, the Air (Prevention & control of pollution) Act-1981, the Environment (Protection) Act- 1986, Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016 and the Public Liability Insurance Act-1991.

Note: Copy of the Monthly Environmental Monitoring reports by NABL accredited laboratory for Effluent and Emission for the last month of the compliance period i.e. Mar-25 is enclosed as **Annexure-6** for reference.



Brief of CAP Technology

Grasim Vilayat has installed state-of-the-art closed-loop technologies to recover and recycle CS2, which is the key raw material for viscose manufacturing process. With these technologies, the site is able to significantly reduce its emissions and achieve 90-95% recovery in terms of Sulphur and recycle it back to the process. CAP is more efficient system for the recovery of CS2 than CS2 recovery through genosorb. In this system H2S gas is recovered in the form of Sulphur in EDTA plant and the exhaust gas stream is move forward to the CAP plant for the CS2 recovery.

Brief on process technology:

1. The washing tower system

The gas contains CS2 and traces of H2S, which enter from the lower side of the washing tower. After being sprayed and scrubbed by Iye of all layers and cooled by cooling water, it shall come out from the top and enter the temperature reducing heat exchanger with demister to eliminate the drops in the waste gas and reduce the temperature of the waste gas. Then the waste gas shall enter the adsorber through waste gas blower. The main function of caustic scrubbing is to remove the H2S in waste gas, its reaction equation is:

H2S + 2NaOH → Na2S + 2H2O

Also, another function of the washing tower is to cooling down the exhaust gas temperature.

2. Adsorption system

There are 8 steps for adsorber operation: gas intake, all valves turn-off, inert gas (nitrogen) intake, desorption, pressure relief, drying, cooling air exhausting.

3. Condensate System

During the desorption, the steam and CS2 from the adsorber will condense out partly when going through the evaporator, and then it will enter to the two condensers. The condensed CS2 and water will enter into the specific gravity separator (S.G. separator). From the exhaust tank to separate and withdrawal the water. Then condensed CS2 will enter through a volume meter then to the CS2 storage tank.

Green belt development

Plant species for Odor management

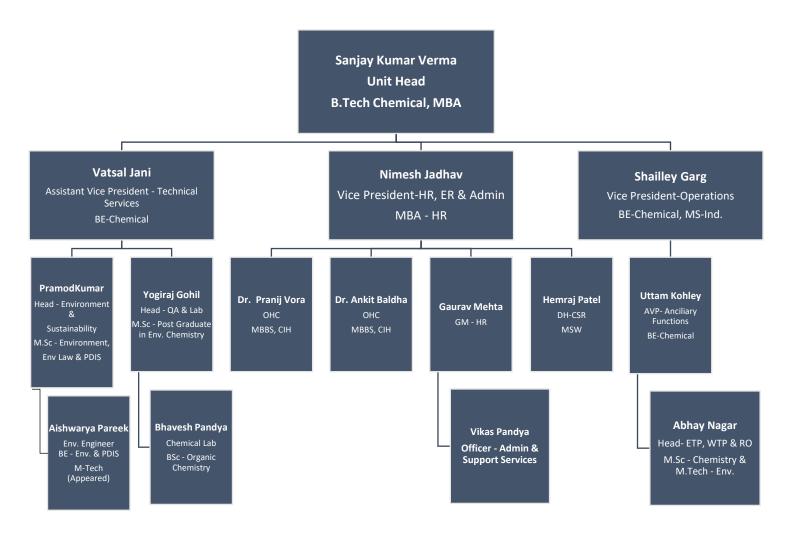
Neem (Azadirachta indica), Saptparni (Alstonia scholaris), Guh babool (Acacia farnesiana), Morpankhi (Thuja occidentalis), Bougainvillea (Bougainvillea spectabilis), Lemon (Citrus lemon), Kaner (Nerium indicum), Mehndi (Lawsonia inermis), Champa (Plumeria rubra), Holy basil (Ocimum tenuiflorum), Tulsi (Ocimum sanctum), Sankuppi (Clerodendrum inerme), Jasmine tree (Plumeria alba), Jarul (Lagerstroemia speciosa), Gurhal (Hibiscus rosa sinensis), Bunchgrass (Vetiveria zizanioides) etc.

Gaseous emission (SO2 & NOx) tolerant species:

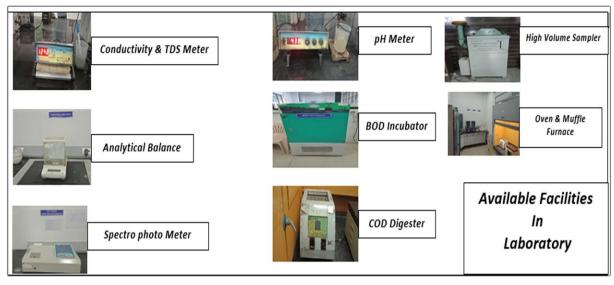
Neem (Azadirachta indica), Bel (Aegle marmelos), Kasood (Cassia siamea), Earleaf Acacia (Acacia auriculiformis), Saptparni (Alstonia scholaris), Aldu (Ailanthus excelsa), Siris (Albizia lebbeck), Shisham (Dalbergia sissoo), Pipal (Ficus religiosa), White fig (Ficus infectoria), Maulsari (Mimusops elengi), Kaner (Nerium indicum), Jarul (Lagerstroemia speciosa) etc. Existing Plantation Species: Neem (Azadirachta indica), Kasood (Cassia siamea), Pine/Junglisaru (Casuarina equisetifolia), Orchid tree (Bauhinia blakeana), Gulmohar (Delonix regia), Rain tree (Samanea saman), Yellow Gulmohar (Peltophorum ferrugineum), Bottle brush (Callistemon sp.), Earleaf Acacia (Acacia auriculiformis), Kadamb (Neolamarckia cadamba), Basant Rani (Tabebuia rosea), Safeda (Eucalyptus), Bougainvillea spectabilis, Lawn Plantation and Shrubbery.

Above plant species are selected based on CPCB Guidelines for development of Green Belt March 2000.

ANNEXURE-3 Organisation Chart of Environment Management Cell



Annexure-4 List of testing facilities available at Environmental Laboratory



Name of Parameter	Testing Facility Available Yes or Not	Name of Instrument
рН	Yes	pH Meter
Colour	Yes	Physically
Temperature	Yes	Thermometer
TSS	Yes	Filtration method
Oil & Grease	Yes	Extraction Method
Fluoride	No	-
Sulphide	Yes	Resin Method
Ammonical Nitrogen as N	No	-
Copper	No	-
Zinc	Yes	EDTA Method
COD	Yes	COD Digestion Method
BOD	Yes	3 Days Incubation Method
Total Residual Chlorine	Yes	Titrimetric Method
Arsenic	No	-
Mercury	No	-
Hexavalent Chromium	Yes	UV Spectrophotometer
Total Chromium	No	-
Lead	No	-
Cadmium	No	-
Nickel	No	-
Cyanide	No	-
Phenolic Compound	No	-
Selenium	No	-
Mn	No	-
Iron	Yes	Comparison Method
Vanadium	No	-
Ambient Air Monitoring	Yes	-
Stack Monitoring Kit	Yes	-
dB Meter	Yes	Sound Meter
MLSS, MLVSS, MLRSS	Yes	Filtration, Oven, Muffle furnace

Environmental monitoring Program

In order to ensure that the predicted impact levels are within the acceptable limits and to further mitigate the impacts wherever possible from proposed facilities, following monitoring programs are undertaken;

- **Air Environment:** Air quality surveillance program which includes;
- 1. Monitoring of air quality of all 4 stacks for CS2, H2S, PM, SO2 & Nox by our Lab as well as 3rd party Lab.
- 2. Ground level concentration is monitored for CS2, H2S, PM, SO2 & Nox in the impact zone as a part of ambient air monitoring by our Lab & 3rd party Lab.
- 3. Port holes and sampling facilities are provided in each stack as per CPCB guidelines, periodic performance evaluation of control measures & equipment's are done

♣ Noise Environment:

Noise generated sources are regularly monitored, ambient noise level is being monitored on quarterly basis inside & outside of plant area and strictly adhered the Factory Act norms of workroom and ambient levels as per E P Act.

- **Water Environment:** For effective environmental pollution control the following measures are taken;
- 1. Daily monitoring of treated effluent in our Lab as well as third party monitoring by outside labs.
- 2. Evaluation of ETP performance is done regularly, based on the results of treated effluent.
- 3. Treated sewage is 100% used in green belt, sewage quantity is very less as only plant sewage comes to STP.
- 4. Three guard /polishing pond constructed, each pond having capacity of 25000 m3. Total holding capacity is 75,000 m3, which is suitable for storage of treated effluent more than 48 hrs. Treated effluent is discharged into sea through GIDC pipeline.
- **5.** Water conservation measures are taken and achieved very less discharge of treated effluent. (Data are available in EC Compliance report).
- **Land Environment:** Following measures are taken to avoid adverse impacts on biological activities;
- 1. All precautions are taken to avoid any spillages on ground.
- 2. A record of Solid & Hazardous waste is maintained & monitored regularly by Env. Cell
- 3. Waste is categorized based on CC&A by GPCB. Hazardous waste is stored separately and disposed as per GPCB guidelines through online Manifest.
- 4. Green belt development program is undertaken and planted around 15,000 tree every year which will be continued to cover > 33% area as green belt.

Environment Monitoring Reports (Effluent & Emission)



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TEST REPORT

(STACK MONITORING)

Test Report No.	URA/25/03/D/S-001	Report Issue Date:	31/03/2025		
Service Request form No.	URA/SRF/03/008	Service Request Date	08/03/2025		
Sample ID No.	URA/ID/S-25/03/008	Field Data Sheet No.:	URA/FDS/S-25/03/008		
Name & Add. of Customer	M/s. Grasim Industries Limite	M/s. Grasim Industries Limited			
	Grasim Cellulosic Division,	Grasim Cellulosic Division,			
	Plot No. 1, GIDC, Vilayat Industrial Estate,				
	District – Bharuch, Gujarat,	District – Bharuch, Gujarat,			
	Pin Code – 392012 (India)				
Date of Sampling	08/03/2025	Date of Testing	10/03/2025		
Stack Sampling Attached to	Rayon Plant				
Air Pollution Control Device	H₂S & CS₂ Recovery Plant				
Fuel Used					

> Details of Instrument Used for Monitoring

Instrument Id No.	UERL-D/AIR/HS/03			
Inst. Name:	Handy Sampler Serial Number: 91-I-19			
Cali. Date:	02/02/2025	Next Cali. Due On:	01/02/2026	

General Stack Observation

Sr.	Description	Unit	Observation
No.			
1.	Stack Height	m	175
2.	Stack Diameter	mm	4050
2.	Stack Area	m ²	12.8877
3.	Ambient Temperature	°C	33

Test Parameter Results

DISCIPLINE – CHEMICAL TESTING			NAME OF GROUP – ATMOSPHERIC POLLUTION		C POLLUTION
Sr. No.	Test Parameter	Unit of measurement	Result	Permissible Limit	Test Method
1.	Carbon Disulphide as CS₂	Kg/ton of fiber	12.8	<95	IS: 11255 (Part 04)
2.	Hydrogen Sulphide as H₂S	Kg/ton of fiber	3.1	<30	IS: 11255 (Part 04)

Remarks:	
Opinion & Interpretation (if required):	

***** End of Report ******

Checked By:

Rajnish Gohil

(Chemist)

Authorized By:
Pooja Gandhi

(Env. Engineer)

Page No.: 16

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TEST REPORT

(STACK MONITORING)

	(e ii i e ii ii i e ii ii e ii ii e ii ii				
Test Report No.	URA/25/03/D/S-002	Report Issue Date:	31/03/2025		
Service Request form No.	URA/SRF/03/009	Service Request Date	08/03/2025		
Sample ID No.	URA/ID/S-25/03/009	URA/ID/S-25/03/009 Field Data Sheet No.: URA/			
Name & Add. of Customer	M/s. Grasim Industries Limite	ed			
	Grasim Cellulosic Division,	Grasim Cellulosic Division,			
	Plot No. 1, GIDC, Vilayat Industrial Estate,				
	District – Bharuch, Gujarat,	District – Bharuch, Gujarat,			
	Pin Code – 392012 (India)				
Date of Sampling	08/03/2025	08/03/2025 Date of Testing 10/03/2025			
Stack Sampling Attached to	Acid Plant 1				
Air Pollution Control Device	Alkali Scrubber				
Fuel Used					

> Details of Instrument Used for Monitoring

Instrument Id No.	UERL-D/AIR/SMK/01			
Inst. Name:	Stack Monitoring Kit, VSS1	Serial Number:	467-DTJ-15	
Cali. Date:	19/06/2024	Next Cali. Due On:	18/06/2025	

General Stack Observation

Sr.	Description	Unit	Observation
No.			
1.	Stack Height	m	50
2.	Stack Diameter	mm	2800
2.	Stack Area	m ²	6.1600
3.	Ambient Temperature	0C	36

Test Parameter Results

DISCIPLINE – CHEMICAL TESTING			NAME OF GROUP – ATMOSPHERIC POLLUTION		C POLLUTION
Sr. No.	Test Parameter	Unit of measurement	Result	Permissible Limit	Test Method
1.	Sulphur Dioxide	Kg/ton of acid	0.9	<1.5	IS: 11255 (Part 02)
2.	Acid Mist	mg/Nm³	11.8	50	SA EPA Method

Remarks:	
Opinion & Interpretation (if required):	

***** End of Report ******

Checked By:

Rajnish Gohil

(Chemist)

Pooja Gandhi

Authorized By:

(Env. Engineer)

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TEST REPORT

(STACK MONITORING)

Test Report No.	URA/25/03/D/S-003	Report Issue Date:	31/03/2025		
Service Request form No.	URA/SRF/03/010	Service Request Date	08/03/2025		
Sample ID No.	URA/ID/S-25/03/010	Field Data Sheet No.:	URA/FDS/S-25/03/010		
Name & Add. of Customer	M/s. Grasim Industries Limite	M/s. Grasim Industries Limited			
	Grasim Cellulosic Division,	Grasim Cellulosic Division,			
	Plot No. 1, GIDC, Vilayat Industrial Estate,				
	District – Bharuch, Gujarat,				
	Pin Code – 392012 (India)				
Date of Sampling	08/03/2025	Date of Testing	10/03/2025		
Stack Sampling Attached to	Acid Plant 2				
Air Pollution Control Device	Alkali Scrubber				
Fuel Used					

Details of Instrument Used for Monitoring

Instrument Id No.	UERL-D/AIR/SMK/01		
Inst. Name:	Stack Monitoring Kit, VSS1	Serial Number:	467-DTJ-15
Cali. Date:	19/06/2024	Next Cali. Due On:	18/06/2025

General Stack Observation

Sr.	Description	Unit	Observation
No.			
1.	Stack Height	m	50
2.	Stack Diameter	mm	2800
2.	Stack Area	m ²	6.1600
3.	Ambient Temperature	°C	36

Test Parameter Results

DISCIPLINE – CHEMICAL TESTING		NAME OF GROUP – ATMOSPHERIC POLLUTION			
Sr. No.	Test Parameter	Unit of measurement	Result	Permissible Limit	Test Method
1.	Sulphur Dioxide	Kg/ton of acid	1.1	<1.5	IS: 11255 (Part 02)
2.	Acid Mist	mg/Nm³	10.1	50	SA EPA Method

Remarks:	
Opinion & Interpretation (if required):	

***** End of Report ******

Checked By: R.D. auhl Rajnish Gohil (Chemist)

Pooja Gandhi (Env. Engineer)

Authorized By:

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TEST REPORT (STACK MONITORING)

ULR - TC153452500002409F					
Test Report No.	URA/25/03/D/S-004	Report Issue Date:	31/03/2025		
Service Request form No.	URA/SRF/03/011	Service Request Date	08/03/2025		
Sample ID No.	URA/ID/S-25/03/011	Field Data Sheet No.:	URA/FDS/S-25/03/011		
Name & Add. of Customer	M/s. Grasim Industries Li	nited			
	Grasim Cellulosic Division,				
	Plot No. 1, GIDC, Vilayat Ir	dustrial Estate,			
	District – Bharuch, Gujarat				
	Pin Code – 392012 (India)				
Date of Sampling	08/03/2025	Date of Testing	10/03/2025		
Stack Sampling Attached to	CS₂ Plant	CS₂ Plant			
Air Pollution Control Device	SRU				
Fuel Used					

Details of Instrument Used for Monitoring

Instrument Id No.	UERL-D/AIR/SMK/01		
Inst. Name:	Stack Monitoring Kit, VSS1	Serial Number:	467-DTJ-15
Cali. Date:	19/06/2024	Next Cali. Due On:	18/06/2025

General Stack Observation

Sr.	Description	Unit	Observation
No.			
1.	Stack Height	m	100
2.	Stack Diameter	mm	1010
2.	Stack Area	m ²	0.8015
3.	Ambient Temperature	°C	36

Test Parameter Results

	7 Test i didiffeter results					
DISCIPLINE - CHEMICAL TESTING		NAME OF GROUP – ATMOSPHERIC POLLUTION				
Sr. No.	Test Parameter	Unit of measurement	Result	Permissible Limit	Test Method	
1.	Carbon Disulphide as CS₂	mg/Nm³	BDL (MDL: 5.0)	180	IS: 11255 (Part 04)	
2.	Hydrogen Sulphide as H₂S	mg/Nm³	BDL (MDL: 5.0)	45	IS: 11255 (Part 04)	
3.	Sulphur Dioxide	ppm	74.8		IS: 11255 (Part 02)	

Remarks:	
Opinion & Interpretation (if required):	

***** End of Report ******

Checked By: K. D. Gohl Rajnish Gohil (Chemist)

Pooja Gandhi (Env. Engineer)

Authorized By:

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TC-15345

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TEST REPORT

ULR No.	TC153452500001710F	Report No.	URC/25/03/0136
Name & Address of	M/s. GRASIM INDUSTRIES LTD.	Date of Report	17/03/2025
Customer	Plot No. 1, GIDC, Vilayat Industrial Estate, Dist. Bharuch, Gujarat, Pin – 392012(India)	Customer's Ref.	
Sample Details	ETP Outlet Water Sample	Location	
Sample Qty.	10 Lit.	Appearance	Colourless
Sampling Date	07/03/2025	Sample Received Date	08/03/2025
Test Started Date	08/03/2025	Test Completion Date	15/03/2025
Sampled By	Client.	Sampling Method	
UERL Lab ID. No.	25/03/0136	•	•

TEST RESULTS:

DISC	CIPLINE: Chemical Testing		NAME OF GROUP: Polls	ution & Environm	ent
Sr. No.	Parameters	Test Method	Permissible Limits (GPCB)	Unit of Measurement	Results
PHY	SIO-CHEMICAL PARAMET	ERS			
1.	pH @ 25 ° C	IS 3025(Part 11):2022	6.0 - 9.0		7.48
2.	Total Dissolved Solids	APHA 24th Ed.,20232540-C		mg/L	4944
3.	Total Suspended Solids	APHA 24th Ed.,20232540 D	100	mg/L	24
4.	Temperature	IS 3025(Part 9):2023	Shall not exceed more than 5 °C above received water temperature	°C	30.0
GEN	ERAL CHEMICAL PARAME	TERS Environment and F	Research Labs Pvt. Ltd.		
5.	Oil & Grease	IS 3025(Part 39):2021	10	mg/L	BDL(MDL:2.0)
6.	Fluoride	APHA 24th Ed.,2023,4500 F, D	15	mg/L	1.33
7.	Sulphide	APHA 24th Ed.,2023,4500 S ⁻² F	5	mg/L	BDL(MDL:0.05)
8.	TKN	APHA 24th Ed.,2023,4500 NORG, B	50	mg/L	2.4
9.	Ammonical Nitrogen	APHA 24th Ed.,2023,4500 NH ₃ -B&C	50	mg/L	BDL(MDL:5.0)
10.	Copper	APHA 24th Ed.,2023,3111-B,	3	mg/L	0.086
11.	Zinc	APHA 24th Ed.,2023,3111-B,	15	mg/L	0.123
12.	COD	IS 3025(Part 58):2023	250	mg/L	160.5
13.	BOD (3 days at 27 °C)	IS 3025(Part 44):2023	100	mg/L	46
14.	Arsenic	APHA 24th Ed.,2023,3114-C	0.2	mg/L	BDL(MDL:0.01)
15.	Mercury	APHA 24th Ed.,2023,3112-B	0.01	mg/L	BDL(MDL:0.001)
16.	Lead	APHA 24th Ed.,2023,3111-B,	0.1	mg/L	BDL(MDL:0.01)
17.	Cadmium	APHA 24th Ed.,2023,3111-B,	0.05	mg/L	BDL(MDL:0.003)
18.	Hexavalent Chromium	APHA 24th Ed.,2023,3500CrB	0.1	mg/L	BDL(MDL:0.05)
19.	Nickel	APHA 24th Ed.,2023,3111-B,	3	mg/L	0.124
20.	Phenolic Compound	IS 3025(Part 43):2022	5	mg/L	BDL(MDL:0.1)

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TEST REPORT

ULR No.	TC153452500001710F	Report No.	URC/25/03/0136
Name & Address of	M/s. GRASIM INDUSTRIES LTD.	Date of Report	17/03/2025
Customer	Plot No. 1, GIDC, Vilayat Industrial Estate, Dist. Bharuch, Gujarat, Pin – 392012(India)	Customer's Ref.	
Sample Details	ETP Outlet Water Sample	Location	
Sample Qty.	10 Lit.	Appearance	Colourless
Sampling Date	07/03/2025	Sample Received Date	08/03/2025
Test Started Date	08/03/2025	Test Completion Date	15/03/2025
Sampled By	Client.	Sampling Method	
UERL Lab ID. No.	25/03/0136	•	•

TEST RESULTS:

DISC	IPLINE: Chemical Testing		NAME OF GROUP: Polls	ution & Environm	ient
Sr. No.	Parameters	Test Method	Permissible Limits (GPCB)	Unit of Measurement	Results
GEN	ERAL CHEMICAL PARAME	TERS			
21.	Iron	APHA 24th Ed.,2023,3111-B,	3	mg/L	BDL(MDL:0.1)
22.	Nitrate Nitrogen	APHA 24th Ed.,2023,4500 NO3-B	50	mg/L	0.2
23.	Total Residual Chlorine	APHA 24th Ed.,2023, 4500-Cl, G	1	mg/L	BDL(MDL:0.1)
24.	Manganese	APHA 24th Ed.,2023,3500 Mn B	2	mg/L	BDL(MDL:0.1)
25.	Cyanide	IS 3025(Part 27):1986	0.2	mg/L	BDL(MDL:0.05)
26.	Selenium	APHA 24th Ed.,2023-3114-C,	0.05	mg/L	BDL(MDL:0.05)
Toxi	city Test	Environment and F	Research Labs Pvt. Ltd.		
27.	Bioassay method for evaluation of toxicity using fish (90% survival of fish after 96 hrs in 100% effluent)	IS 6582 (Part 1): 1971	90 % survival of fish after 96 hrs.	%	90 % survival of fish after 96 hrs.
28.	Measurement of toxicity factor using zebra fish (dimensionless toxicity test)	IS:6582(part-II):2001		%	90 % survival of fish after 96 hrs.
	/	 imit, MDL = Minimum Detection Li	mit,		

****** End of Report ******

Checked By

بر. د. الم Nilesh C. Patel (Sr. Chemist)

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(Nitin B. Tandel) (Technical Manager)

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ISO 9001 : 2015 Certified Company ISO 45001: 2018 Certified Company

TEST REPORT

ULR No.		Report No.	URC/25/03/0136
Name & Address of Customer	M/s. GRASIM INDUSTRIES LTD. Plot No. 1, GIDC, Vilayat Industrial Estate,	Date of Report	17/03/2025
customer	Dist. Bharuch, Gujarat, Pin – 392012(India)	Customer's Ref.	
Sample Details	ETP Outlet Water Sample	Location	
Sample Qty.	10 Lit.	Appearance	Colourless
Sampling Date	07/03/2025	Sample Received Date	08/03/2025
Test Started Date	08/03/2025	Test Completion Date	15/03/2025
Sampled By	Client.	Sampling Method	
UERL Lab ID. No.	25/03/0136	•	•

TEST RESULTS:

DISC	PLINE: Chemical Testing		NAME OF GROUP: Pollution & Environm		
Sr. No.	Parameters	Test Method	Permissible Limits (GPCB)	Unit of Measurement	Results
GENE	RAL CHEMICAL PARAMETE	RS			
1.	Trivalent Chromium	By Calculation	2	mg/L	BDL(MDL:0.05)
2.	Vanadium	APHA 24th Ed.,2023-3500 – V	0.2	mg/L	BDL(MDL:0.5)

Note: BDL= Below Detection Limit, MDL = Minimum Detection Limit,

Remarks: --

Opinion & Interpretation (If required): --

***** End of Report ******

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ہا. د. او. Nilesh C. Patel (Sr. Chemist) (N.B.T.)

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TEST REPORT

ULR No.	TC153452500001709F	Report No.	URC/25/03/0135
Name & Address of Customer	M/s. GRASIM INDUSTRIES LTD. Plot No. 1, GIDC, Vilayat Industrial Estate,	Date of Report	17/03/2025
Customer	Dist. Bharuch, Gujarat, Pin – 392012(India)	Customer's Ref.	
Sample Details	STP Outlet Water Sample	Location	
Sample Qty.	2 Lit.	Appearance	Colourless
Sampling Date	07/03/2025	Sample Received Date	08/03/2025
Test Started Date	08/03/2025	Test Completion Date	13/03/2025
Sampled By	Client.	Sampling Method	
UERL Lab ID. No.	25/03/0135	<u>.</u>	•

TEST RESULTS:

DISCIPLINE: Chemical Testing		NAME OF GROUP: Pollution & Environment			
Sr. No.	Parameters	Test Method	Permissible Limits (GPCB)	Unit of Measurement	Results
PHYS	SIO-CHEMICAL PARAMETERS	i			
1.	pH @ 25 ° C	IS 3025(Part 11):2022	-		7.07
2.	Total Suspended Solids	APHA 24th Ed.,2023,2540 -D	<30	mg/L	28
GENE	ERAL CHEMICAL PARAMETE	RS			
1.	Biochemical Oxygen Demand (BOD) (5 days at 20 °C)	APHA 24th Ed.,20235210-B	a<20 Labs Pvt. Ltd.	mg/L	2
2.	Residual Free Chlorine	IS 3025(Part 26):2021	0.5 (min.)	mg/L	1.2

***** End of Report *****

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