

ADITYA BIRLA



Date: 27/06/2023

To,
Gujarat Pollution Control Board,
Paryavaran Bhavan, Sector – 10 A,
Gandhinagar – 382 010.

Subject: Environmental Statement in Form - V for the financial year ending on the 31st March, 2023

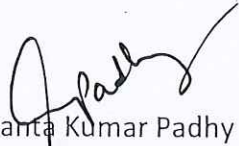
XGN ID No.: 18831

Dear Sir,

As per provision of Rule-14 of the Environment (Protection) Rules 1986, please find enclosed herewith Environmental Statement in Form-V for the financial year 2022-2023.

Thanking you,

For Grasim Industries Limited (Unit - Aditya Birla Insulators, Halol),


Mr. Sushanta Kumar Padhy
Factory Manager

Enclosures:

1. Form – V
2. Effluent analysis report
3. Ambient air monitoring report
4. Stack monitoring report

Copy to: Regional Officer,
Gujarat Pollution Control Board,
Plot No. 1403, Opp. GIDC Office,
Halol - 389350.


Gujarat Pollution Control Board
Head Office
Sector No.-10-A,
Gandhinagar-382010



ADITYA BIRLA INSULATORS

Grasim Industries Limited
Unit - Aditya Birla Insulators

Halol Works : P.O. : Meghasar, Taluka : Halol, Dist. Panchmahal (Gujarat) Pin : 389350, India

Tel. : 91 2676, Board : 221002 | Fax : 91 2676 223375

Website: www.adityabirlainsulators.com / www.grasim.com | CIN No. : L17124MP1947PLC000410

Regd. Office : Birlagram (P.O.), Nagda (M.P.) Pin : 456 331, India.



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FORM – V
(Rule 14 of Environment Protection Rules-1986)

Environmental Statement for the financial year ending on the 31st March, 2023

PART – A

- (i) Name & Address of the owner/occupier : Mr. H. K. Agarwal
Of the Industry operation or process : M/s. Grasim Industries Limited
(Unit- Aditya Birla Insulators)
A wing, Flat No. 802, Chaitanya CHS,
Appasaheb Marathe Marg, Prabhadevi,
Mumbai – 400025.
- (ii) Industry category : Orange Category
- (iii) Production Capacity – Units : Porcelain Insulator: 1866 MT/Month
(Actual –1077 MT/Month)
Composite Insulator: 100000 Nos. /Month
(Actual – 9411 Nos. /Month)
- (iv) Year of establishment : 01/08/1981
- (v) Date of the last environmental statement : 24/06/2021

PART – B

Water and Raw Material Consumption

(I) **Water Consumption m³/day**

Process : 623.83 M³/day
Cooling : 23.08 M³/day
Domestic : 94.88 M³/day

Name of product		Process water consumption per unit of product output	
		During the previous financial year. (2021-2022)	During the current financial year. (2022-2023)
1.	Porcelain Insulator	24.47 kL/MT	20.95 kL/MT
2.	Composite insulator (Polymer)	Nil	Nil

Raw Material Consumption

For Porcelain Insulators Preparation:

NO.	Name of Raw Materials	UOM	Consumption of raw material per unit of output (MT/MT)	
			During the previous financial year (2021-2022)	During the current financial year (2022-2023)
1	Ball Clay	MT	0.64	0.64
2	Quartz	MT	0.17	0.17
3	Feldspar	MT	0.29	0.29
4	Alumina	MT	0.37	0.37
5	Metal Part (Aluminum)	MT	0.01	0.01
6	Metal Part (SGI)	MT	0.18	0.18

For Composite Insulators (Polymer) Preparation:

No.	Name of Raw Materials	UOM	Consumption of raw material per unit of output	
			During the previous financial year (2021-2022)	During the current financial year (2022-2023)
1	Silicon Rubber	KG	3.58	3.99
2	FRP Road	METER	1.18	1.43
3	Metal Parts	KG	2.08	2.10

PART – C

Pollution Discharged to environment / unit of output.
(Parameter as specified in the consent issued)

Pollutants		Unit	Result	GPCB Standards	Percentage of variation from prescribed standards with reason
(a) Wastewater	BOD	(mg/l)	21.4	30	Within Permissible Limit
	COD	(mg/l)	84.5	100	Within Permissible Limit
	TSS	(mg/l)	24	100	Within Permissible Limit
(b) Air (Kiln-7)	PM	mg/Nm ³	24.85	150	Within Permissible Limit
	SO ₂	ppm	4.15	100	Within Permissible Limit
	NO _x	ppm	5.05	50	Within Permissible Limit

PART – D

HAZARDOUS WASTE

As specified under Hazardous Wastes (Management and Handling Rules, 1989)

Hazardous Waste	Total Quantity	
	During the previous financial year (2020-2021)	During the current financial year (2021-2022)
a) From Process		
i. Used Oil	5.54 kL	4.18 kL
ii. Discarded containers/Barrels	248 Nos.	230 Nos.
b) From pollution control facility (ETP Sludge)	8.21 MT	8.93 MT

PART – E
SOLID WASTE

Solid Wastes	Total Quantity	
	During the previous Financial year	During the current Financial year
(a) From process	0	0
(b) From pollution control facility (Effluent Treatment Plant)	8.21 MT	8.93 MT
(c) (i) Quantity recycle or re-utilized	8.21 MT	8.93 MT
(ii) Sold to authorized recycler	248 Nos. Discarded containers/Barrels	230 Nos. Discarded containers/Barrels
(iii) Disposed to TDSF	Nil	Nil

PART – F

Please specify the characterization (In terms of composition and quantum) of hazardous as well as solid and indicate disposal practice adopted for both these categories of wastes.

- Storage Practices: Hazardous waste is collected and stored in scrap yard on impervious concrete flooring within the premises.
- Disposal Practices: Hazardous waste is handed over to authorized recyclers as per the norms.

Sr. No.	Details of Hazardous waste	Chemical form	Category	Quantity	Disposal
1	Used Oil	Mineral Oil	5.1	4.18 kL	Collection, Transportation, Storage and disposal by selling to authorized Refiners.
2	Discarded containers/barrels	MS/Plastic/HDPE	33.1	230 Nos.	Collection, Transportation, Storage and disposal by selling to authorized Refiners.
3	ETP Sludge	Earth Crust	35.3	8.93 MT	Collection, Transportation, Storage and disposal by reusing in process and also by land filling in the premises.

PART – G

Impact of the pollution abatement measures taken on conservation of natural resources and on the cost of production

- Pollution control measures adopted to control the pollution are as given below:
 - Regular monitoring of stack emissions & ambient air quality conducted by GPCB approved environment labs
 - ETP treated water is reused 100 % in gardening, toilets and process
 - Treated sewage water is used in green belt
 - ETP sludge is recycled 100% into the process

- The impact of these measures on conservation of natural resources:
 - ❖ Reduction in ETP waste generation
 - ❖ Emission levels are within GPCB permissible limits

PART – H


Additional measures / investment proposals for environmental protection including abatement of prevention of pollution

- Replaced 3 nos. of BS-2 staff bus by BS6 staff bus
- 200 saplings to be planted this year in company and nearby villages
- Rooftop Rainwater drains to be connected to recharge-wells
- Increase Vermi-Composting for biodegradable waste management of Colony Waste

PART - I

Any other particulars for improving the quality of the environment:

- Continuous development of Green belt area (Added 30 more trees)
- We provide medical assistance, provide educational awareness and distribute tree saplings in village school to promote environmental conservation

Signature : 
Name : Mr. Sushanta Padhy
Designation : Factory Manager
Date : 27/06/2023





MAX - WELL ENGINEERS

(ANALYTICAL LABORATORY)

ENVIRONMENTAL CONSULTANTS & AUDITORS

101-303, Gajanand Chambers, Makarpura Road, Baroda-390 010.

Ph. : (0265) 2641581, 2635365 Email : maxwellbaroda@gmail.com, maxwell_baroda@hotmail.com

TEST REPORT					
REPORT NUMBER: MWE/22-23/WTR/0242			DATE OF REPORT: 28.11.2022		
CUSTOMER NAME: M/s. Grasim Industries Ltd (Unit – Aditya Birla Insulators). (ID:18831)					
ADDRESS: Plot No. : S. No. – 333/1, Vill : Magasar, Tal : Halol, Dist : Panchmahal – 389330.					
SAMPLE DETAILS.					
LABORATORY ID	: MWE/22-23/WTR/0148/B	DATE OF SAMPLING	: 23.11.2022		
SAMPLE TYPE	: Grab	DATE OF SAMPLE RECEIPT	: 23.11.2022		
LOCATION OF SAMPLING	: ETP Plant	SAMPLE CONDITION	: Acceptable		
SAMPLE DESCRIPTION	: Final Outlet	QUANTITY OF SAMPLE RECEIVED	: 5 Liter		
SAMPLING PROTOCOL / STANDARD	: As per system procedure No 20	ANALYSIS START DATE	: 23.11.2022		
SAMPLE RECEIVED IN	: 5 Liter Carbo Marked As B	ANALYSIS END DATE	: 28.11.2022		
SL.NO	PARAMETER	UNIT	RESULT	NORMS	TEST METHOD
01	pH at 25 °C	--	8.00	6.50 to 8.50	APHA 4500 H ⁺ B (23 rd Edition)
02	Temperature	°C	28.00	40.00	APHA 2550 B (23 rd Edition)
03	Color	Pt. co. unit	2.00	100.00	APHA 2120 C (23 rd Edition)
04	T.S.S	mg/L	24.00	100.00	APHA 2540 D (23 rd Edition)
05	T.D.S	mg/L	1280.00	2100.00	APHA 2540 C (23 rd Edition)
06	B.O.D(5 day at 20 °C)	mg/L	21.40	30.00	IS 3025(part 44): 1993(RA 2009)
07	C.O.D	mg/L	84.50	100.00	APHA 5200 C (23 rd Edition)
08	Oil & Grease	mg/L	BDL(DL:0.40)	10.00	APHA 5520 D (23 rd Edition)
09	Ammonia Nitrogen(NH ₃ -N)	mg/L	BDL(DL:0.28)	50.00	APHA 4500 NH ₃ -N C (23 rd Edition)
10	Phenol	mg/L	BDL(DL:0.01)	1.00	APHA 5530 D (23 rd Edition)
11	Sulfide	mg/L	BDL(DL:0.08)	2.00	APHA 4500 S ²⁻ F(23 rd Edition)
12	Chloride as CL	mg/L	480.10	600.00	APHA 4500 Cl ⁻ B(23 rd Edition)
13	Sulphate as SO ₄	mg/L	92.00	1000.00	APHA 4500 SO ₄ E(23 rd Edition)
14	Cyanide	mg/L	BDL(DL:0.01)	0.20	APHA 4500 CN ⁻ C&E(23 rd Edition)
15	Arsenic as As	mg/L	BDL(DL:0.01)	0.20	APHA 3500 As B (23 rd Edition)
16	Total Chromium	mg/L	BDL(DL:0.001)	2.00	APHA3500 Cr B (23 rd Edition)
17	Hexavalent Chromium	mg/L	BDL(DL:0.001)	0.10	APHA3500 Cr B (23 rd Edition)



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TEST REPORT

REPORT NUMBER: MWE/22-23/AIR/63/0325

DATE OF REPORT: 29/11/2022.

CUSTOMER NAME: M/s. GRASIM INDUSTRIES LTD (UNIT-ADITYA BIRLA INSULATORS)
S.NO333/1, VILL: Magasar, Tal: Halol, Dist: Panchmahal.

SAMPLE DETAILS :


LABORATORY ID	: MWE/22-23/AIR/63/A	DATE OF SAMPLING	: 23/11/2022
SAMPLE TYPE	: AMBIENT AIR MONITORING	LOCATION OF SAMPLING	: Nr. Main Gate
TYPE OF SAMPLING	: AIR DUST SAMPLER	DURATION OF SAMPLING	: 24 hrs.
SAMPLING PROTOCOL / STANDARD	: As per Work Instruction No. 2	WEATHER CONDITION	
ANALYSIS START DATE	: 25/11/2022.	AMBIENT MIN. TEMPERATURE	: 22°C
ANALYSIS END DATE	: 26/11/2022	AMBIENT MAX. TEMPERATURE	: 36°C
VOLUME OF SAMPLE COLLECTED	: PM2.5-24.04, PM10-1008, SO ₂ -32.95 and NOx-0.648	WIND DIRECTION	: NE→SW
		AVERAGE WIND VELOCITY	: 2-12


Sl. No.	PARAMETER	UNIT	RESULT	NORMS	TEST METHOD
01.	Suspended Particulate Matter (PM _{2.5})	µg/Nm ³	38.56	60.0	CPCB Guidelines for measurement of ambient air pollutants Vol.-I: 2012 and USEPA Quality Assurance Handbook Vol-2 (Part 2): Year-2013
02.	Respirable Suspended Particulate Matter (PM ₁₀)	µg/Nm ³	70.41	100.0	IS 5182 (Part 23): 2006.RA.2017
03.	Sulphur Dioxide	µg/Nm ³	12.65	80.0	IS 5182 (Part 2): 2001.RA.2017
04.	Oxides of Nitrogen	µg/Nm ³	13.45	80.0	IS 5182 (Part 6): 2006 RA.2017


Remarks : 1) BDL: Below Detectable Limit, DL: Detectable Limit.

Deviations (if any): --

Statement of Conformity/Opinion & Interpretation: N/A

Tested by : 
Name : Mr. Dilip Chauhan
Designation : Chemist

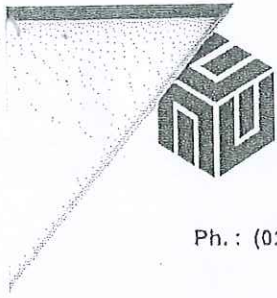
Reviewed By : 
Name : Mr. Dilipbhai R. Jadav
Designation : CEO / TM

Authorized Signatory : 
Name : Mr. Dilipbhai R. Jadav
Designation : CEO / TM

* End of Report *

- 1) The results relate only to the item(s) / sample(s) tested.
- 2) Samples(s) will be destroyed after 15 days from the Sampling date unless otherwise specified
- 3) Test Report shall not be reproduced except in full without approval of the Max-Well Engineers (Analytical Laboratory) can provide assurance that parts of a report are not taken out of context.
- 4) The Information is supplied by the customer and can affect the validity of result.
- 5) The results applied to the sample as received.

F/7.8/03/Issue No.02/Issue Date: 01-11-2019/ Amend No.:01 / Amend Date:-01-03-2021- / Page 1 of 1



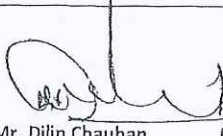
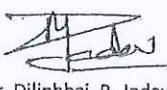

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TEST REPORT					
REPORT NUMBER: MWE/22-23/AIR/44/0250			DATE OF REPORT: 17/08/2022.		
CUSTOMER NAME: M/s. GRASIM INDUSTRIES LTD (UNIT-ADITYA BIRLA INSULATORS)					
S.NO333/1, VILL: Magasar, Tal: Halol, Dist: Panchmahal.					
SAMPLE DETAILS :					
LABORATORY ID :	: MWE/22-23/AIR/44/G		LOCATION OF SAMPLING :	: KILN-7	
SAMPLE TYPE :	: FLUE/PROCESS GAS EMISSION		AMBIENT TEMPERATURE :	: 34.0°C	
SAMPLING INSTRUMENT :	: STACK MONITORING KIT		STACK TEMPERATURE :	: 295.0°C	
SAMPLING METHOD/ STANDARD :	: As per Work Instruction No. 2		AVERAGE PRESSURE IN STACK :	: 3.5	
DATE OF SAMPLE COLLECTION :	: 12/08/2022		VELOCITY OF STACK GAS :	: 6.49 m/sec	
SAMPLING TIME (MIN) :	: 02:40PM to 03:10PM		VOLUMETRIC FLOW RATE :	: - m ³ /hr	
ANALYSIS START DATE :	: 13/08/2022		MOISTURE CONTENT :	: NIL	
SL.NO	PARAMETER	UNIT	RESULT	NORMS	TEST METHOD
01	Particulate Matter	mg/Nm ³	24.85	150.0	IS 11255 (Part 1): 1985.RA.2014
02	Sulphur Dioxide	ppm	4.15	100.0	IS 11255 (Part 2): 1985.RA.2014
03	Oxides of Nitrogen	ppm	5.05	50.0	IS 11255 (Part 7): 2005.RA.2017
Note: BDL: Below Detectable Limit, DL: Detectable Limit, ND: Not Detectable					
Deviations (if any): --					
Statement of Conformity/Opinion & Interpretation: N/A					
Remark:					
Tested by :		Reviewed By :		Authorized Signatory :	
Name :	Mr. Dilip Chauhan	Name :	Mr. Dilipbhai R. Jadav	Name :	Mr. Dilipbhai R. Jadav
Designation :	Chemist	Designation :	CEO / TM	Designation :	CEO / TM
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