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Ref.: ABIR / PCB /2023/ 481  
Date : 23.09.2023

To

The Environmental Engineer,  
West Bengal Pollution Control Board,  
Hooghly Regional Office,  
Himalay Bhawan, Delhi Road,  
Dankuni -712224. Hooghly (WB)

RECEIVED  
Contents not verified  
W.B. Pollution Control Board  
Hooghly Regional Office  
Himalaya Bhawan Delhi Road  
Dankuni, Hooghly - 712311  
26/9/23

Dear Madam/Sir,

**Sub- Submission of Environment statement for the financial year ending 31<sup>st</sup> March 2023**

In Pursuance to the notification issued by the Ministry of Environment, Forest and Climate Change, Govt. of India dated 13<sup>th</sup> March'1992 under the Environment (protection) Rules 1986, we are submitting herewith Environmental Statement Report for the financial year 2022-2023 ending 31<sup>st</sup> march 2023

Thanking you.

*Gahari*  
**DR GOBINDA PAHARI**  
**FACTORY MANAGER**  
**GRASIM INDUSTRIES LTD.**  
**UNIT: ADITYA BIRLA INSULATORS**  
**P.O.-PRABHAS NAGAR, RISHRA**  
**DIST.-HOOGHLY(W.B.), PIN-712249**

Yours faithfully,

For, **GRASIM INDUSTRIES LIMITED**

**( UNIT ADITYA BIRLA INSULATORS)**

*Gahari*  
**Gobinda Pahari**

**Factory Manager**



**ADITYA BIRLA INSULATORS**  
**Grasim Industries Limited**  
**Unit : Aditya Birla Insulators**

Rishra Works : P.O. : Prabhas Nagar, Rishra, Dist. : Hooghly (W.B.), Pin : 712 249, India  
Tel. : 91 33 2600 7200, Fax : 91 33 2672 2705  
W : www.adityabirlainsulators.com / www.grasim.com | CIN : L17124MP1947PLC000410  
**Regd. Office** : Bilragram, Nagda - 456 331 (M.P.)

**FORM -- V**

(See Rule 14)

**ENVIRONMENTAL STATEMENT FOR THE FINANCIAL YEAR ENDING 31ST MARCH 2023****PART - A**

- 1 Name and address of the owner/occupier of the industry, operation or process : Grasim Industries Limited, Unit-Aditya Birla Insulators . 5,Panchu Gopal Sarani, P.O.- Prabhasnagar,(712249); Rishra, Hooghly
- 2 Industry Category : Orange category  
 Primary code -- (STC Code) --  
 Secondary code -- (STC Code) --
- 3 Production Capacity - Units - : Porcelain Insulators 2830 MT / Month
- 4 Year of Establishment : 1966
- 5 Date of Last environmental statement submitted. : 21.09.22

**PART - B****WATER CONSUMPTION & RAW MATERIAL CONSUMPTION****1 Water consumption****M<sup>3</sup> / day**

Process	117.00
Industrial cooling	1.00
Domestic	100.00
Total	218.00

Name of Products	Process Water Consumption per unit of product output		2022
	During the previous financial year 2021-2022	During the current financial year 2023	
Electro Porcelain Insulators	7.77 M <sup>3</sup> / MT	7.51	M3/MT

**Basis** Net Production during 2022-2023  
 Net Production daily average during 2022-2023

10,602.00 MT  
 29.047 MT

**2 Raw material Consumption**

Name of raw materials	Name of Products	Consumption of Raw Materials per unit of output	
		During the Previous Financial Yr 21-22 (Kg/MT)	During the Current Financial Yr 22-23 (Kg/MT)
1 Feldspar	Porcelain Insulators	207.6	204.9
2 Quartz	-do-	362.1	349.4
3 Ball clay A-10	-do-	155.9	152.0
4 Hi-MOR ball clay	-do-	101.5	101.0
5 Hy-MOR blue ball clay	-do-	77.5	73.6
6 Clay S-1, S-2 & Others	-do-	145.2	99.7
7 China Clay	-do-	19.7	30.8
8 Alumina	-do-	93.8	93.3
9 Dolomite	-do-	2.3	2.9
10 Magnesium Chloride	-do-	0.5	0.4
11 Iron Oxide	-do-	0.8	1.0
12 C.M.C.	-do-	0.3	0.2
14 Manganese di-Oxide	-do-	1.5	1.8
15 Cement	-do-	36.9	40.6

*Galan*  
 DR. GOBINDA PAHARI  
 FACTORY MANAGER  
 GRASIM INDUSTRIES LTD.  
 UNIT-ADITYA BIRLA INSULATORS  
 P.O.-PRABHAS NAGAR, RISHRA  
 DIST.-HOOGHLY(W.B.), PIN-712249

**PART - C**

**POLLUTION DISCHARGED TO ENVIRONMENT/UNIT OF OUTPUT**

(\* parameter as specified in the consent issued)

Pollutants	Quantity of pollutant discharge (mass/day)	Concentrations of pollutants in discharges (mass/volume)	Prescribed Standard	Percentage of variation from standards with reasons
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**A. WATER**

				mg/L	
pH	---		7.52	5.5 - 9.0	
TSS	1.800	Kg/day	36	100	(+) 64.00
BOD	0.500	Kg/day	10	30	(+) 66.67
COD	2.105	Kg/day	42.10	250	(+) 83.16
Oil & Grease	0.160	Kg/day	3.2	10	(+) 68.00
Iron	0.030	Kg/day	0.6	3	(+) 80.00

**B. AIR SO2**


Shuttle Kiln 1 (6 Chimney)	---	Kg/day	---	mg/Nm <sup>3</sup>	H=14Q <sup>0.13</sup>
Shuttle Kiln 2 (6 Chimney)	---	Kg/day	---	mg/Nm <sup>3</sup>	H=14Q <sup>0.13</sup>
Tunnel Kiln 3 (1 Chimney)	---	Kg/day	---	mg/Nm <sup>3</sup>	H=14Q <sup>0.13</sup>
Tunnel Kiln 4 (1 Chimney)	---	Kg/day	---	mg/Nm <sup>3</sup>	H=14Q <sup>0.13</sup>
Tunnel Kiln 5 (1 Chimney)	8.257	Kg/day	19.4	mg/Nm <sup>3</sup>	H=14Q <sup>0.13</sup>
750 KVA DG 1 (2 Chimney)	0.419	Kg/day	203.5	mg/Nm <sup>3</sup>	H=14Q <sup>0.13</sup>
750 KVA DG 2 (2 Chimney)	0.446	Kg/day	213.2	mg/Nm <sup>3</sup>	H=14Q <sup>0.13</sup>
<b>Total</b>	<b>9.122</b>	<b>Kg/day</b>			

**AIR PM**

				mg/Nm <sup>3</sup>	
Shuttle Kiln 1 (6 Chimney)	---	Kg/day	---	150	(+) ---
Shuttle Kiln 2 (6 Chimney)	---	Kg/day	---	150	(+) ---
Tunnel Kiln 3 (1 Chimney)	---	Kg/day	---	150	(+) ---
Tunnel Kiln 4 (1 Chimney)	---	Kg/day	---	150	(+) ---
Tunnel Kiln 5 (1 Chimney)	3.408	Kg/day	8.0	150	(+) 94.67
750 KVA DG 1 (2 Chimney)	0.124	Kg/day	60.0	150	(+) 60.00
750 KVA DG 2 (2 Chimney)	0.117	Kg/day	56.0	150	(+) 62.67
<b>Total</b>	<b>3.649</b>	<b>Kg/day</b>			

Percentage of Variation =  $\frac{\text{Standard} - \text{Actual}}{\text{Standard}} \times 100$

(+) Means lower than standard  
 (--) Means higher than standard

  
**DR GOBINDA PAHARI**  
**FACTORY MANAGER**  
**GRASIM INDUSTRIES LTD.**  
**UNIT: ADITYA BIRLA INSULATORS**  
**P.O.-PRABHAS NAGAR, RISHRA**  
**DIST.-HOOGHLY(W.B.), PIN-712249**

**Basis**

A WATER Effluent Water discharged = 28.27 KL / Day

B AIR

- 1 Shuttle Kiln 1 running for 0.00 hrs./day (approx.)
- 2 Shuttle Kiln 2 running for 0.00 hrs./day (approx.)
- 3 Tunnel Kiln 3 running for 0.00hrs./day (approx.)
- 4 Tunnel Kiln 4 running for 0.00 hrs./day (approx.)
- 5 Tunnel Kiln 5 running for 24 hrs./day for 365 Days
- 6 All Thermopac has been removed and no emission present.
- 8 750 KVA DG 1 running for 0.77 hrs./day (approx.)
- 9 750 KVA DG 2 running for 0.88 hrs./day (approx.)

**POLLUTION DISCHARGED TO ENVIRONMENT/UNIT OF OUTPUT**

(\*parameter as specified in the consent issued)

Pollutants	Quantity of pollutant discharge (mass/day)	Quantity of pollutant discharge to environment per unit of output (Kg/MT)
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**A. WATER**

TSS	1.800 Kg/day	0.0620 Kg/MT
BOD	0.500 Kg/day	0.0172 Kg/MT
COD	2.105 Kg/day	0.0725 Kg/MT
Oil & Grease	0.160 Kg/day	0.0055 Kg/MT

**B. AIR**

SO2	9.122 Kg/day	0.314 Kg/MT
PM	3.649 Kg/day	0.126 Kg/MT

<b>Basis</b>	No. of working days during 01April'22 - 31Mar'23	365 Days
	Production of Electro Porcelain Insulator during April, 2022 to March, 2023	10,602.00 MT
	Production of Electro Porcelain Insulator during April, 2022 to March, 2023	29.047 MT/day

  
**DR GOBINDA PAHARI**  
 FACTORY MANAGER  
**GRASIM INDUSTRIES LTD.**  
 UNIT: ADITYA BIRLA INSULATOR  
 P.O.-PRABHAS NAGAR, RISHRA  
 DIST.-HOOGHLY(W.B.), PIN-712200

**PART - D**

**HAZARDOUS WASTES**

[As Specified under Hazardous Waste (Management, Handling & Transboundary Movement) Rules, 2008]

Hazardous Waste	Total Quantity Generated	
	During the current financial year 2021-22	During the current financial year 2022-23
1. From Process	Used Oil- 1.44 MT Waste or residue containing oil-1.28 MT	Used Oil- 3.53MT Waste or residue containing oil- 1.28MT
2. From Pollution Control Facilities	NIL	NIL


**PART - E**

**SOLID WASTES**

Solid Wastes	Total Quantity	
	During the previous financial year 2021-22	During the current financial year 2022-23
a. From process	1671.66 MT of rejected insulator	1396.43 MT of rejected insulator
b. From Pollution Control Facility	0	0
c. (1) Quantity recycled or re-utilised within the unit.	Nil	Nil
(2) Sold	0	0
(3) Disposed	1671.66 MT of rejected insulator	1289.39 MT of rejected insulator

**PART - F**

Please specify the characteristics (in terms of concentration and quantum) of hazardous as well as solid wastes and indicate disposal practice adopted for both these categories of wastes.	<b>Hazardous Waste:</b>	<p>Composition &amp; Quantum of Hazardous Waste: Used Oil →3.53MT,Waste or Residue containing oil 1.28 MT.</p> <p>Used oil is being kept in a storage shed for selling to WBPCB authorised agency.All other Hazardous waste has been send to West Bengal Waste management Limited for disposal:</p>
	<b>Solid Waste :</b>	<p>Composition &amp; Quantum of Solid Wastes: i) Rejected Fired Insulators → 1396.43 MT ii) ETP Sludge (Ceramic clay) → 0 iii) Drain Clay (Ceramic clay) → NIL</p> <p>Method of Disposal: Rejected fired insulators are being sold to the organisation, those are mostly using as a raw material of refractory.</p>

  
**DR GOBINDA PAHARI**  
 FACTORY MANAGER  
 GRASIM INDUSTRIES LTD.  
 UNIT: ADITYA BIRLA INSULATORS  
 P.O.-PRABHAS NAGAR, RISHRA  
 DIST.-HOOGHLY(W.B.), PIN-712249

**PART - G**

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

i) The entire industrial effluent water is being routed through the existing ETP. In the existing ETP the method of treatment is primarily chemical dosing for sedimentation of suspended solid in the settling chambers. The settled clay from the bottom of the chambers are subsequently passed through a filter press or a Centrifugal Decanter and the waste clay is sold to out side agency (primarily used as a raw material for ceramic SSI units).

ii) The plant is having an Environmental Management System (EMS) and is certified for ISO 14001, ISO 9001, SA 8000 & ISO 45001. Plant has been set up the following programme as part of EMS.

iii) Based on the priority of impact analysis some Environmental Management Programme (EMP) are being developed. New Plantation done in plant premises. 80% of Treated effluent used in plant utilities.

**PART - H**

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

For controlling dust some initiative/project in progress- i) Wet charging of raw material powder, ii) installation of transparent sheet at rawmaterial charging area.

**PART - I**

**MISCELLANEOUS:**

Any other particulars in respect of environmental protection and abatement of pollution.

World Environment day celebrated throughout the week in plant. Plantation of tree has been done inside plant, Different campaigns like water leakage prevention, energy saving and awareness program organised.

**DR GOBINDA PAHARI**  
**FACTORY MANAGER**  
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