



# Maharashtra Pollution Control Board

महाराष्ट्र प्रदूषण नियंत्रण मंडळ

## FORM V

Environmental Audit Report for the financial Year ending the 31st March 2019

### Unique Application Number

MPCB-ENVIRONMENT\_STATEMENT-0000018735

### Submitted Date

19-09-2019

### Company Information

#### Company Name

Birla Carbon India Pvt. Ltd.

#### Application UAN number

BO/CAC-Cell/EIC No  
RD-3003-15,RD-3078-15/6th CAC-11662

#### Address

Village: Lohop/Talvali

#### Plot no

Lohop

#### Taluka

Khalapur

#### Village

Lohop/Talvali

#### Capital Investment (In lakhs)

318.34

#### Scale

Large

#### City

Raigad

#### Pincode

410207

#### Person Name

Parag Bane

#### Designation

Manager- Safety & Environment

#### Telephone Number

02192202077

#### Fax Number

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#### Email

parag.bane@adityabirla.com

#### Region

SRO-Raigad I

#### Industry Category

Red

#### Industry Type

R6 Industrial carbon including electrodes and graphite blocks, activated carbon, carbon black

#### Last Environmental statement submitted online

yes

#### Consent Number

BO/CAC-Cell/EIC No  
RD-3003-15,RD-3078-15/6th CAC-11662

#### Consent Issue Date

03.09.2015

#### Consent Valid Upto

30.03.2020

### Product Information

#### Product Name

Carbon Black

#### Consent Quantity

84000

#### Actual Quantity

73269

#### UOM

MT/A

### By-product Information

#### By Product Name

Electricity

#### Consent Quantity

201480

#### Actual Quantity

117995

#### UOM

Mwh

### 1) Water Consumption in m3/day

#### Water Consumption for Process

#### Consent Quantity in m3/day

0

#### Actual Quantity in m3/day

0

#### Cooling

4610

2300

#### Domestic

80

70

#### All others

350

220

**Total** 5040 2590

**1) Effluent Generation in CMD / MLD**

<b>Particulars</b>	<b>Consent Quantity</b>	<b>Actual Quantity</b>	<b>UOM</b>
Trade Effluent	396.20	229	CMD
Sewage Effluent	70	68	CMD

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

<b>Name of Products (Production)</b>	<b>During the Previous financial Year</b>	<b>During the current Financial year</b>	<b>UOM</b>
Carbon Black	12.76	13.78	Ton/Ton

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

<b>Name of Raw Materials</b>	<b>During the Previous financial Year</b>	<b>During the current Financial year</b>	<b>UOM</b>
CBFS	2.047	2.0648	Ton/Ton
KNO3	0.0002	0.0013818	Ton/Ton
Molasses	0.0127	0.0112168	Ton/Ton

**4) Fuel Consumption**

<b>Fuel Name</b>	<b>Consent quantity</b>	<b>Actual Quantity</b>	<b>UOM</b>
LDO	22995	203.462	KL/A
HSD	3942	18.865	KL/A

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

**[A] Water**

<b>Pollutants Detail</b>	<b>Quantity of Pollutants discharged (kL/day)</b>	<b>Concentration of Pollutants discharged(Mg/Lit) Except PH,Temp,Colour</b>	<b>Percentage of variation from prescribed standards with reasons</b>	<b>Standard</b>	<b>Reason</b>
	<b>Quantity</b>	<b>Concentration</b>	<b>%variation</b>		
TSS	0.633	4.13	-	-	Within consent limit
COD	3.21	19.83	-	-	Within consent limit
BOD	0.976	4.9	-	-	Within consent limit
Oil & Grease	0.00	0.00	-	-	Within consent limit
Sulphates	2.89	20.1	-	-	Within consent limit
Chlorides	11.57	67.91	-	-	Within consent limit
TDS	34.89	229.01	-	-	Within consent limit
pH	-	7.2	-	-	Within consent limit

**[B] Air (Stack)**

<b>Pollutants Detail</b>	<b>Quantity of Pollutants discharged (kL/day)</b>	<b>Concentration of Pollutants discharged(Mg/NM3)</b>	<b>Percentage of variation from prescribed standards with reasons</b>	<b>Standard</b>	<b>Reason</b>
	<b>Quantity</b>	<b>Concentration</b>	<b>%variation</b>		
Stack S-1 (Dryer) TPM	15.32	30.01	-	-	Within consent limit
Stack S-1 (Dryer) SO2	14.80	28.75	-	-	Within consent limit

Stack S-2 (Boiler) TPM	60.30	12.34	-	-	Within consent limit
Stack S-2 (Boiler) SO2	2214	480.9	-	-	Within consent limit
Stack S-3 (DG) TPM	0.76	21.33	-	-	Within consent limit
Stack S-3 (DG) SO2	1.7	71	-	-	Within consent limit
Stack S-4 (Flare) TPM	18.75	75	-	-	Within consent limit
Stack S-4 (Flare) SO2	1.11	4.45	-	-	Within consent limit
Stack S-5 (Fire hydrant pump) TPM	0.35	30.12	-	-	Within consent limit
Stack S-5 (Fire hydrant pump) SO2	1.3	6.33	-	-	Within consent limit

## **HAZARDOUS WASTES**

### **1) From Process**

<b>Hazardous Waste Type</b>	<b>Total During Previous Financial year</b>	<b>Total During Current Financial year</b>	<b>UOM</b>
5.1 Used or spent oil	0	1.55	KL/A
33.1 Empty barrels/containers/liners contaminated with hazardous chemicals /wastes	65	35	Nos./Y
Other Hazardous Waste	8.3	11.64	MT/A

### **2) From Pollution Control Facilities**

<b>Hazardous Waste Type</b>	<b>Total During Previous Financial year</b>	<b>Total During Current Financial year</b>	<b>UOM</b>
35.3 Chemical sludge from waste water treatment	9.94	8.58	MT/A

## **SOLID WASTES**

### **1) From Process**

<b>Non Hazardous Waste Type</b>	<b>Total During Previous Financial year</b>	<b>Total During Current Financial year</b>	<b>UOM</b>
Food waste	2200	2400	Kg/Annum
Refractory	46	48	MT/A
HDPE Bags	3050	5786	Kg/Annum
Empty jute bags	200	270	Kg/Annum
Wooden scrap	57111	7080	Kg/Annum
Metal scrap	59321	9327	Kg/Annum
DM Plant resin	0	0	MT/A

### **2) From Pollution Control Facilities**

<b>Non Hazardous Waste Type</b>	<b>Total During Previous Financial year</b>	<b>Total During Current Financial year</b>	<b>UOM</b>
0	0	0	MT/A

### **3) Quantity Recycled or Re-utilized within the unit**

<b>Waste Type</b>	<b>Total During Previous Financial year</b>	<b>Total During Current Financial year</b>	<b>UOM</b>
0	0	0	MT/A

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

### **1) Hazardous Waste**

<b>Type of Hazardous Waste Generated</b>	<b>Qty of Hazardous Waste</b>	<b>UOM</b>	<b>Concentration of Hazardous Waste</b>
5.1 Used or spent oil	1.55	KL/A	-
35.3 Chemical sludge from waste water treatment	8.58	MT/A	-
Other Hazardous Waste	11.64	MT/A	-
33.1 Empty barrels/containers/liners contaminated with hazardous chemicals /wastes	35	Nos./Y	-

## **2) Solid Waste**

<b>Type of Solid Waste Generated</b>	<b>Qty of Solid Waste</b>	<b>UOM</b>	<b>Concentration of Solid Waste</b>
Food waste	2400	Kg/Annum	-
Refractory	48	MT/A	-
HDPE Bags	5786	Kg/Annum	-
Empty Jute bags	270	Kg/Annum	-
Wooden scrap	7080	Kg/Annum	-
Metal scrap	9327	Kg/Annum	-
Resin	0	MT/A	-

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

<b>Description</b>	<b>Reduction in Water Consumption (M3/day)</b>	<b>Reduction in Fuel &amp; Solvent Consumption (KL/day)</b>	<b>Reduction in Raw Material (Kg)</b>	<b>Reduction in Power Consumption (KWH)</b>	<b>Capital Investment(in Lacs)</b>	<b>Reduction in Maintenance(in Lacs)</b>
Noise reduction-Deffuser system for steam trap	-	-	-	-	5	1
Waste water recycle system-Slurry system	100	-	-	-	10	3

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

#### **[A] Investment made during the period of Environmental Statement**

<b>Detail of measures for Environmental Protection</b>	<b>Environmental Protection Measures</b>	<b>Capital Investment (Lacks)</b>
Slurry system recycling by using waste water	water recycling	10
Ozonator installation in STP	Eliminate NaOCl usage	10

#### **[B] Investment Proposed for next Year**

<b>Detail of measures for Environmental Protection</b>	<b>Environmental Protection Measures</b>	<b>Capital Investment (Lacks)</b>
Reactor scrubber replacement	Emission control	30

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

#### **Particulars**

PARAG BANE

#### **Name & Designation**

MANAGER- SAFETY & ENVIRONMENT