

REGISTERED

BJCL/Bhilai/ Env. / 802

30<sup>th</sup> April, 2024

To

The Member Secretary  
Chhattisgarh Environment Conservation Board,  
Paryavas Bhavan, North Block,  
Sector-19, Atal Nagar Nava Raipur  
Raipur (CG) - 492002

**Sub : Environmental Statement for the Financial Year 2023- 24.**

Dear Sir,

We are herewith submitting the Environmental Statement for the financial year ending **31<sup>st</sup> March, 2024** in Form V in Compliance of Environment (Protection ) Rules 1992.

Bhilai Jaypee Grinding Plant, Bhilai has stopped the Cement production due to fund constraints since 29<sup>th</sup> March, 2022 & Chhattisgarh State Electricity Board has disconnected the electricity connection of Plant from 29<sup>th</sup> August 2022. This is submitted for your kind information please.

Thanking you

Yours faithfully



**I.P. Srivastava (Sr. G.M)**

**Authorized Signatory**

**For Bhilai Jaypee Grinding Plant, Bhilai**  
**(A Unit of Bhilai Jaypee Cement Limited)**

CC: Regional Officer  
Regional Office,  
C.E. Conservation Board,  
Bhilai, Durg ( CG )

- For your kind information please



o/c

**M/S. BHILAI JAYPEE GRINDING PLANT, BHILAI**  
**(A UNIT OF BHILAI JAYPEE CEMENT LIMITED)**  
**(JOINT VENTURE WITH SAIL)**

# **ENVIRONMENTAL** **STATEMENT**

**For the Financial year ending**  
**31<sup>st</sup> March 2024**

**M/S. BHILAI JAYPEE GRINDING PLANT, BHILAI**  
**(A UNIT OF BHILAI JAYPEE CEMENT LIMITED)**  
**(JOINT VENTURE WITH SAIL)**

**ENVIRONMENTAL STATEMENT**

**(For the Financial year ending 31<sup>st</sup> March 2024)**

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**BHILAI JAYPEE GRINDING PLANT, BHILAI  
FORM - V**

(See Rules 14)

**Environmental Statement for the Financial  
Year ending 31<sup>st</sup> March 2024**

**PART - A**

- (i) Name and address of the owner/ : **BHILAI JAYPEE GRINDING PLANT**  
Occupier of the industry : **BSP Premises, Slag Yard Road**  
Operation or Process. : **(Opp. Sector - 4, Near NMOH )**  
 : **BHILAI, DURG -490001**
- Occupier : **Shri R.B. Singh Ji**
- (ii) Industry Category : **Secondary (SIC Code)**  
Primary (STC Code)  
Secondary (SIC Code)
- (iii) Production Capacity : **2.2 Million Tonnes /Annum of**  
**Portland Slag Cement**
- (iv) Year of establishment : **June 2010**
- (v) Date of the last Environmental : **26<sup>th</sup> April , 2023**  
Statement Submitted

**PART - B**

**WATER AND RAW MATERIALS CONSUMPTION**

- (i) Water Consumption, m<sup>3</sup> / day (Avg.)
- Process : **NIL**
- Cooling : **4.0 (Based on 365 Days only dust suppression)**
- Domestic : **44.3 (Based on 365 Day including plantation)**

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Name of Product	Process Water Consumption per unit of product output	
	During the previous financial year 2022-23	During the current financial year 2023-24

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<b>Portland Slag Cement</b>	0.00 m <sup>3</sup> /T of Cement (Production-0)	0.00 m <sup>3</sup> /T of Cement (Production - 0)
	Water used for cooling purpose only. (Excluding Domestic consumption)	Water used for cooling purpose only.

**II -Raw Materials Consumption**

Name of the Raw Materials	Name of product	Consumption of raw material per unit of output	
		During the Previous financial year <u>2022-23</u>	During the Current financial year <u>2023-24</u> (Production – Zero)
Portland Slag Cement		MT/ MT of Cement Prodn.	MT / MT of Cement Prodn.
1. Clinker		0.0	0.0
2. Gypsum		0.0	0.0
3. Slag		0.0	0.0
4. Coal		0.0	0.0

**PART- C****POLLUTION DISCHARGED TO ENVIRONMENT/UNIT OF OUTPUT****(Parameter as specified in the consent issued)****(a) Water**

<b>Pollutants</b>	<b>Quantity of Pollutants Discharged (mass /day)</b>	<b>Concentration of Pollutants Discharges (mass/volume)</b>	<b>%of varia- tion from prescribed standards with reasons</b>
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**- NOT APPLICABLE -**

This is a Cement Grinding Unit and Portland Slag Cement is produced by dry grinding of clinker and slag with small quantity of gypsum, hence no Industrial Waste Water is being generated from the plant process. Water is used only for cooling purpose which is recycled back into the system.

Domestic Waste Water generated from the office toilet is small quantity and the same is being disposed off into the Sewage line of Bhilai Steel Plant which finally is treated in their Sewage Treatment Plant.



<b>(b) AIR.</b>			
<b>Pollutants</b>	<b>Allowable Standards</b>	<b>Concentration of Pollutants Discharged in mg/Nm<sup>3</sup></b>	<b>Percentage of variation from prescribed Standards with reason</b>
<b><u>Stack Emission.</u></b>		<b>Min.    Max.    Avg.</b>	
Stack of Bag house Cement Mill No.1&2  P.M.	30mg/Nm <sup>3</sup>	0    -    0    (0)	Stack emission values are well within the prescribed limits stipulated by SPCB in Consent
Stack of packing plant Bag Filter No-1  P.M.	30mg/Nm <sup>3</sup>	0    -    0    (0)	Stack emission values are well within the prescribed limits stipulated by SPCB in Consent
Stack of packing plant Bag Filter No-2  P.M.	30mg/Nm <sup>3</sup>	0    -    0    (0)	Stack emission values are well within the prescribed limits stipulated by SPCB in Consent
Stack of packing plant Bag Filter No-3  P.M.	30mg/Nm <sup>3</sup>	0    -    0    (0)	Stack emission values are well within the prescribed limits stipulated by SPCB in Consent
Stack of packing plant Bag Filter No-4  P.M.	30mg/Nm <sup>3</sup>	0    -    0    (0)	Stack emission values are well within the prescribed limits stipulated by SPCB in Consent

Note- Ambient Air Quality Data as Annexure-1

**P A R T – D****Hazardous Waste**

(As specified under Hazardous Waste (Management, Handling and Transboundary Movement) Rules, 2008)

**Hazardous Waste****Total Quantity (kg)**

**During the previous  
Financial year  
2022- 23**

**During the Current  
Financial year  
2023-24**

(a) From Process  
Spent Oil (Used Oil)

1680 LTR

Nil

(b) From pollution  
Control Facilities

Nil.

Nil.



[06]

PART - E

SOLID WASTE

Total Quantity in MT		
	During the previous Financial year 2022 - 23	During the Current financial year 2023-24
(a) From Process (Disposed)	Nil (Burst Bags)	Nil (Burst Bags)
(b) From Pollution control Facilities	NIL	NIL
( c ) ( 1 ) Quantity recycled or reutilized Within the unit	All the collected swept solid waste is reused in the the process	
( 2 ) Sold	Nil (Burst Bags)	Nil (Burst Bags)
( 3 ) Disposed	NIL	NIL

Dust collected in the Bag House and Bag filters are Recycled back into the system

PART - F

Please specify the characterization (in term of composition and quantum ) of Hazardous as well as solid waste and indicate disposal practice adopted for both these categories of wastes.

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HAZARDOUS WASTE.

This is a Cement Grinding Unit and Portland Slag Cement is produced by dry grinding of clinker and slag with small quantity of gypsum. No Hazardous waste is generated from the process except used oil which is collected from machineries. Presently used oil is stored in 200/220 liter capacity drums and kept in secured area / place within the factory premises as per the Hazardous Waste Management Rules. After getting the authorization of Hazardous Waste (Authorization No. 40/HO/HSMD/CECB/ RAIPUR Dated 06/11/2012) and renewal of authorization - 204/HO/HSMD/CECB/RAIPUR date 12.12.2017 and 4385/HSMD/HO/CECB/2022 Nawa Raipur dated 23/09/2022 from the Board, the disposal is being done as per Hazardous & Other Wastes (Management and Transboundary Movement) Rules , 2016. The Used Oil disposed off to the Authorized recyclers approved by the CECB for processing.

E-WASTE. Nil (No any E- Waste disposed )

SOLID WASTE.

Burst bags are collected, stored in specific area when ever plant in running condition.  
Dust collected in the Bag House and Bag filters is recycled back into the system.

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Part-GImpact of pollution abatement measures taken on conservation of natural resources and on the cost of production.

Bhilai Jaypee Cement Grinding plant is using slag generated by Bhilai Steel Plant to manufacture Portland Slag Cement, thus utilizing industrial waste and conserving limestone and coal-the non-renewable natural resources. The plant is equipped with state-of-the art Air Pollution Control devices so that emission level maintained well below stipulated norms as prescribed in the consent Total 34 Nos. of Bag filters including Bag House have been installed to control the Stack emission and at various material transfer points to control the fugitive dust emissions as per CPCB guideline. Entire collected dust is also recycled/ reutilized into the system. Fully mechanized system developed for handling of raw materials. All raw materials handling is being done by fully covered conveyor belt. Water sprinkling on



road is being carried out regularly to control the fugitive dust emission which is generated during movement of vehicles.

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**Good housekeeping practice is being done by**

1. Raw coal is stored in covered shed
2. Clinker and cement is being stored in covered silo.
3. Gypsum is stored in covered shed.
4. Regular road sweeping is being carried out.
5. Regular water spraying is being carried out.
6. Scheduled maintenance and monitoring of Pollution Control Devices is being done.

**PART – H**

**Additional measures/ investment proposal for environmental protection including abatement of pollution, and Prevention of Pollution.**

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Company has been installed and commissioned Continuous Online Ambient Air Quality Monitoring Systems and Continuous Online Emission Monitoring System.

The ecology of the area has improved due to Green Belt development programme undertaken by the plant. So far, approx 11200 trees in total have been planted over an area of 4.62 ha and outside the plant area.

**ADDITIONAL MEASURES**

1. Bag filters maintenance are done regular basis.
2. Permanent water sprinklers near wagon tippler area have been provided for dust suppression.
3. Used batteries are placed in designated place and send to only authorized recycler.
4. E-waste are placed in designated place and send to only authorized recycler.
5. The parking area of cars and two wheeler inside plant has been concreted to control fugitive emission during movement.
6. Cleaning of rain water harvesting pits done.



## **PART-I**

### **Any other particulars for improving the quality of the Environment**

1. The company has planted about 250 trees during the year 2023-24 in the plant premises and outside area. 4.62 Ha green belt area covered till date.
2. Revival & Proper care of trees/plants by top up of soil and fertilizer.
3. Periodic review of various Environmental Compliance conditions through Environmental Meeting.
4. Water Sprinkling is being done on regular basis for dust suppression.
5. Awareness program and Tree plantation carried out on World Environment Day.
6. Awareness program carried out on International Ozone Day.
7. Awareness sessions carried out regarding Water conservation issues.

**Ambient Air Quality**  
**(2023-24)**

<b><u>(b) AIR.</u></b>			
<b>Pollutants</b>	<b>Allowable standards</b>	<b>Concentration of pollutants discharged in <math>\mu\text{g}/\text{m}^3</math></b>	<b>Percentage of variation from prescribed Standards with reason</b>

<b><u>1-Ambient Air</u></b>		<b>Min.</b>	<b>Max.</b>	<b>Avg.</b>	
<b><u>I. Switch Yard</u></b>					
i) S.P.M.	500 $\mu\text{g}/\text{m}^3$	-	-	-	
PM <sub>10</sub>	100 $\mu\text{g}/\text{m}^3$				
PM <sub>2.5</sub>	60 $\mu\text{g}/\text{m}^3$				
ii) SO <sub>2</sub>	80 $\mu\text{g}/\text{m}^3$				
iii) NOx	80 $\mu\text{g}/\text{m}^3$				
iv) CO	4mg/m <sup>3</sup>				
<b><u>II. Coal Yard</u></b>		<b>Min.</b>	<b>Max.</b>	<b>Avg.</b>	
i) S.P.M.	500 $\mu\text{g}/\text{m}^3$	-	-	-	
PM <sub>10</sub>	100 $\mu\text{g}/\text{m}^3$				
PM <sub>2.5</sub>	60 $\mu\text{g}/\text{m}^3$				
ii) SO <sub>2</sub>	80 $\mu\text{g}/\text{m}^3$				
iii) NOx	80 $\mu\text{g}/\text{m}^3$				
iv) CO	4mg/m <sup>3</sup>				
<b><u>III. Wagon Tippler</u></b>		<b>Min.</b>	<b>Max.</b>	<b>Avg.</b>	
i) S.P.M.	500 $\mu\text{g}/\text{m}^3$	-	-	-	
PM <sub>10</sub>	100 $\mu\text{g}/\text{m}^3$				
PM <sub>2.5</sub>	60 $\mu\text{g}/\text{m}^3$				
ii) SO <sub>2</sub>	80 $\mu\text{g}/\text{m}^3$				
iii) NOx	80 $\mu\text{g}/\text{m}^3$				
iv) CO	4mg/m <sup>3</sup>				
<b><u>IV. Auto workshop</u></b>		<b>Min.</b>	<b>Max.</b>	<b>Avg.</b>	
i) S.P.M.	500 $\mu\text{g}/\text{m}^3$	-	-	-	
PM <sub>10</sub>	100 $\mu\text{g}/\text{m}^3$				
PM <sub>2.5</sub>	60 $\mu\text{g}/\text{m}^3$				
ii) SO <sub>2</sub>	80 $\mu\text{g}/\text{m}^3$				
iii) NOx	80 $\mu\text{g}/\text{m}^3$				
iv) CO	4mg/m <sup>3</sup>				

Bhilai Jaypee Grinding Plant, Bhilai has stopped the Cement production due to fund constraints since 29<sup>th</sup> March, 2022 & Chhattisgarh State Electricity Board has disconnected the electricity connection of Plant from 29<sup>th</sup> August 2022. This is submitted for your kind information please.