

REGISTERED

BJCL/Bhilai/ Envt. / 752

25th April, 2023

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 2022- 23.

Dear Sir,

We are herewith submitting the Environmental Statement for the financial year ending 31st March, 2023 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 29th March,2022 & Chhattisgarh State Electricity Board disconnected the electricity connection of Plant from 29th August 2022. This is submitted for your kind information please.

Thanking you

Yours faithfully

Niraj Kumar Shrivastava (Unit Head) **Authorized Signatory**

Gelow

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

CC: Regional Officer Regional Office,

- For your kind information please

C.E. Conservation Board, Bhilai, Durg (CG)

: BSP Premises, Slag Yard Road (Opp. Sector-4, NMOH) Bhilai - 490 001,.

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A JV of SAIL & JAIPRAKASH ASSOCIATES LIMITED



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 31st March 2023

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 31st March 2023)

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BHILAI JAYPEE GRINDING PLANT, BHILAI FORM - V

(See Rules 14)

Environmental Statement for the Financial Year ending 31st March 2023

PART-A

(i) Name and address of the owner/

Occupier of the industry Operation or Process.

BHILAI JAYPEE GRINDING PLANT

BSP Premises, Slag Yard Road (Opp. Sector – 4, Near NMOH) BHILAI, DURG -490001

Occupier : Shri R.B. Singh Ji

(ii) Industry Category

Primary (STC Code) Secondary (SIC 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^{t}

Statement Submitted

26th April , 2022

PART – B WATER AND RAW MATERIALS CONSUMPTION

(i) Water Consumption, m³ / day (Avg.)

Process : NIL

Cooling : 4.1 (Based on 365 Days only dust suppression)

Domestic : 44.7 (Based on 365 Day including plantation)

Name of Product Process Water Consumption per unit of product output

During the previous During the current

financial year 2021-22 financial year 2022-23

Portland Slag 0.0329 m³/T of Cement 0.00 m³/T of Cement

Cement (Production - 0)

Water used for cooling purpose only. Water used for cooling purpose only. (Excluding Domestic consumption)

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 2021-22	During the Current financial year <u>2022-23</u> (Production – Zero)
Portland S	Slag Cement	MT/ MT of Cement Prodn.	MT / MT of Cement Prodn.
1. Clinker		0.43477	0.0
2. Gypsum		0.01890	0.0
3. Slag		0.54631	0.0
4. Coal		0.01971	0.0

PART-C

POLLUTION DISCHARGED TO ENVIRONMENT/UNIT OF OUTPUT

(Parameter as specified in the consent issued)

(a) Water			
Pollutants	Quantity of Pollutants Discharged (mass /day)	Concentration of Pollutants Discharges (mass/volume)	% of variation from prescribed standards with reasons

- 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.

<u>(b) AIR</u> .			
Pollutants	Allowable Standards	Concentration of Pollutants Discharged in mg/Nm ³	Percentage of variation from prescribed Standards with reason
Stack Emission. Stack of Bag house		Min. Max. Avg.	
Cement Mill No.1&2 P.M.	30mg/Nm ³	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 ³	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 ³	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 ³	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 ³	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

PART-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 2021- 22	During the Current Financial year 2022-23
(a) From Process Spent Oil (Used Oil)	Nil.	1680 Liters
(b) From pollution Control Facilities	Nil.	Nil.

PART-E

SOLID WASTE

	Total Quantity in MT	
	During the previous Financial year 2021 - 22	During the Current financial year 2022-23
(a) From Process (Disposed) Ni	l (Burst Bags)	Nil (Burst Bags)
(b) From Pollution control Facilities	NIL	NIL
(c) (1) Quantity recycled or reutilized Within the unit	d All the collected swep the process	t solid waste is reused in the
(2) Sold	Nil (Burst Bags)	Nil (Burst Bags)
(3) Disposed	NIL	NIL

[07]

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.

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.

Part-G

<u>Impact of pollution abatement measures taken on conservation of natural resources and on the cost of production.</u>

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.

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.

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 300 trees during the year 2022-23 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.

[10] Annexure -1

Ambient Air Quality (2022-23)

<u>(b) AIR.</u>			
Pollutants	Allowable standards	Concentration of pollutants discharged in µg/m ³	Percentage of variation from prescribed Standards with reason
1-Ambient Air		Min. Max. Avg.	
I. Switch Yard			
i) S.P.M. PM 10 PM 2.5 ii) SO2 iii) NOx iv) CO	500μg/m ³ 100μg/m ³ 60μg/m ³ 80μg/m ³ 80μg/m ³ 4mg/m ³	186.0 - 208.0 (197.0) 39.2 - 48.1 (45.4) 18.0 - 19.2 (18.7) 6.4 - 7.1 (6.8) 24.4 - 25.0 (24.5) - BDL-	Well within the norms
II. Coal Yard		Min. Max. Avg.	
i) S.P.M. PM 10 PM 2.5 ii) SO2 iii) NOx iv) CO	500μg/m ³ 100μg/m ³ 60μg/m ³ 80μg/m ³ 80μg/m ³ 4mg/m ³	187.0 - 210.0 (199.0) 40.4 - 49.9 (46.7) 18.0 - 19.1 (18.6) 6.6 - 7.0 (6.8) 23.7 - 24.5 (24.2) - BDL-	Well within the norms
III. Wagon Tippler		Min. Max. Avg.	
i) S.P.M. PM 10 PM 2.5 ii) SO2 iii) NOx iv) CO	500μg/m ³ 100μg/m ³ 60μg/m ³ 80μg/m ³ 80μg/m ³ 4mg/m ³	193.0 - 227.0 (208.0) 44.3 - 54.6 (49.8) 18.3 - 20.6 (19.4) 6.5 - 7.5 (7.0) 24.4 - 25.4 (24.9) - BDL -	Well within the norms
IV. Auto workshop		Min. Max. Avg.	
i) S.P.M. PM ₁₀ PM _{2.5} ii) SO ₂ iii) NOx iv) CO	500μg/m ³ 100μg/m ³ 60μg/m ³ 80μg/m ³ 4mg/m ³	195.0 - 216.0 (202.0) 44.7 - 56.3 (48.1) 18.4 - 19.5 (18.9) 6.2 - 6.8 (6.5) 23.8 - 24.9 (24.3) - BDL-	Well within the norms