

REGISTERED

BJCL/Bhilai/ Envt. / 540

4th June, 2019

To.

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

Sub: Environmental Statement for the Financial Year 2018- 19.

Dear Sir.

We are herewith submitting the Environmental Statement for the financial year ending -31st March, 2019 in Form V in Compliance of Environment (Protection) Rules 1986 as amended subsequently.

Thanking you

Yours faithfully

Niraj Shrivastava (Unit Head)

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)

: BSP Premises, Slag Yard Road (Opp. Sector-4, NMOH) Bhilai - 490 001,... Distt.-Durg(Chhattisgarh) Exchange-0788-4022255/56, Fax:0788-4022216

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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 2019

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 2019)

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BHILAI JAYPEE GRINDING PLANT, BHILAI FORM - V

(See Rules 14)

Environmental Statement for the Financial Year ending 31st March 2019

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

7th June, 2018

Statement Submitted

PART - BWATER AND RAW MATERIALS CONSUMPTION

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

Process

: NIL

Cooling

: 9.8 (Based on 365 Days including dust suppression)

Domestic

: 38.5 (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 2017-18 financial year 2018-19

Portland Slag

0.1246 m³/T of Cement

0.156 m³/T of Cement

Cement

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 2017-18	During the Current financial year 2018-19
Portland S	Slag Cement	MT/ MT of Cement Prodn.	MT / MT of Cement Prodn.
1. Clinker		0.42814	0.39515
2. Gypsum		0.01303	0.01136
3. Slag		0.54949	0.57692
4. Coal		0.01837	0.01647



PART- C

POLLUTION DISCHARGED TO ENVIRONMENT/UNIT OF OUTPUT

(Parameter as specified in the consent issued)

(a)	Water	r

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

This is a Cement Grinding Unit and Portland Slag Cement is produced by dry grinding of clinker andslag 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) AIR.	
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 Cement Mill No.1&2 P.M.	30mg/Nm ³	Min. Max. Avg. 23.2-25.8 (24.7)	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	18.9 – 19.7 (19.3)	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	19.3 – 19.5 (19.4)	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	17.8 – 21.1 (19.4)	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	17.4 – 19.7 (19.0)	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 2017- 18	During the Curren Financial year 2018-19
(a) From Process Spent Oil (Used Oil)	Nil	Nil
(b) From pollution Control Facilities	Nil.	Nil.



[06]

PART-E

SOLID WASTE

	Total Quantity in MT	
	During the previous Financial year 2017 - 18	During the Current financial year 2018-19
(a) From Process	2.54 MT	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 th the process	
(2) Sold	2.54 MT	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.

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 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. E-waste (100 Kg) is disposed through authorized recycler M/S Namo E-waste Management Limited, 14/1, Main Mathura Road, Faridabad-121003

SOLID WASTE.

Burst bags are collected, stored in specific area and sold to recyclers.

Dust collected in the Bag House and Bag filters is recycled back into the system.

Part-G

Impact 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.



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.
- Gypsum is stored in covered shed.
- Regular road sweeping is being carried out.
- 5. 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, total 11545 trees have been planted over an area of 4.62 ha and outside the plant area.

For the pollution control measures the company incurred a cost of Rs. 396.0 per ton of Cement production during 2018-19. This does not include capital investment for installation of Pollution Control devices.

ADDITIONAL MEASURES

- Permanent water sprinklers near wagon tippler area have been provided for dust suppression.
- The parking area of cars and two wheeler inside plant has been concreted to control fugitive emission during movement.
- Constructed the check dam near coal storage area to restrict the spillage of coal in the drain

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- Skirt guard of some part of coal conveyer belt replaced to control fugitive emission.
- Damaged nozzles of Water sprinklers in different places at feeding belts replaced.
- 6. Main Suction damper of Packer replaced to control dust.
- 651 BC-2 for TL-2 straight chute redefined (angle modified) to control dust emission from cement bags.
- Bag filter (491BF-3) discharge at Wagon tippler is redefined with air slide for proper cleaning and control dust emission.
- 9. TL-2 inclined belt replace with new.
- 10. Drum motor of TL-2 redefined to control dust emission from cement bags.
- One extra venting line given for Recirculation belt (561 BC1) discharge point bag filter to control dust emission.

PART-I

Any other particulars for improving the quality of the Environment

- The company has planted about 550 trees during the year 2018-19 in the plant premises and outside area. 4.62 ha green belt area covered till date.
- Periodic review of various Environmental Compliance conditions through Environmental Committee Meeting every month is being done.
- Replacement of 125 Numbers bag, 8 Numbers solenoid valve and 2 Numbers Cages from Bag Filters & Bag Houses for controlling of dust emission effectively.
- 4. Water Sprinkling is being done on regular basis for dust suppression.
- 5. Awareness program and Tree plantation carried out on World Environment Day.
- Awareness program carried out on International Ozone Day.
- Awareness sessions carried out regarding Water conservation issues.

