



cement! sugar! refractories! power!

DCBL/ENV-ES/23-24/

Date: 24.09.2024

To,

The Member Secretary,  
Jharkhand State Pollution Control Board,  
T.A Division Building (Ground Floor)  
HEC Campus, Dhurwa , Ranchi- 834004

Subject: Submission of Environment Statement Report (Form-V) of Occupational Health Center (Dispensary) of Dalmia Cement Bharat Limited for the financial year ending the 31<sup>st</sup> March'2024

Dear Sir,

We are submitting herewith Environment Statement Report (Form-V) of Occupational Health Center (Dispensary) of Dalmia Cement (Bharat) Limited, Bokaro, Jharkhand for the period of financial year April' 2023 – March'2024 for your kind perusal and record please.

Thanking you.

Yours faithfully  
For Dalmia Cement (Bharat) Limited

  
Priya Ranjan  
Authorized Signatory

Encl: Environment Statement Report (Form-V)

CC: Environmental Officer  
Regional Office, JSPCB, Dhanbad  
H.I.G-1, Sardar Patel Nagar, Hirapur ,  
Dhanbad-826001, Jharkhand

**Dalmia Cement (Bharat) Limited**

Plot No. IV/A-7(P)4, Bokaro Industrial Area, Balidih, Bokaro Steel City, Bokaro - 827014, Jharkhand, India  
T: 06543253278, New M: 8983924464, Email: [info@dalmiabharat.com](mailto:info@dalmiabharat.com) CIN: U65191TN1996PLC035963  
9/24/2024 12:17 PM Verma.Sanjeev  
Registered Office: Dalmiapuram, District Tiruchirappalli, Tamil Nadu - 621651, India.  
A Dalmia Bharat Group company, [www.dalmiabharat.com](http://www.dalmiabharat.com)

ENVIRONMENT STATEMENT  
(FORM-V)  
Financial Year 2023-2024



**OCCUPATIONAL HEALTH CENTER (DISPENSARY)  
DALMIA CEMENT (BHARAT) LIMITED**

**Plot No. IV/A-7(P) Bokaro Industrial Area, Balidih,  
Bokaro Steel City (827014), Jharkhand, India**

**“FORM – V”**

**ENVIRONMENTAL STATEMENT FOR THE FINANCIAL YEAR ENDING WITH  
31<sup>st</sup> MARCH 2024**

**PART – A**

(I)	Name & Address of the Owner / Occupier of the Industry operation or Process	<b>Priya Ranjan</b> <b>Unit Head</b> Dalmia Cement (Bharat) Limited (Formerly known as Bokaro Jaypee Cement Limited) Plot No. IV/A-7(P) Bokaro Industrial Area, Balidih, Bokaro Steel City (827014), Jharkhand, India.  <b>Dr. Santosh Kumar</b> <b>Medical Officer</b> Occupational Health Center (Dispensary) Dalmia Cement (Bharat) Limited (Formerly known as Bokaro Jaypee Cement Limited) Plot No. IV/A-7(P) Bokaro Industrial Area, Balidih, Bokaro Steel City (827014), Jharkhand, India.
(II)	Industry Category  Primary ( STC CODE )  Secondary ( SIC CODE )	Occupational Health Center (Dispensary)   Not applicable
(III)	Production Capacity	2 Beds
(IV)	Year of Establishment	2011
(V)	Date of last Environmental Statement Submitted	18.09.2023

**PART – B**

**Water & Raw Material Consumption**

**A. Water**

(i) Water Consumption (M<sup>3</sup>/day):

	Water Consumed in 2022-23	Water Consumed in 2023-24
Process	NA	NA
Industrial	NA	NA
Domestic	Approx. 20 Liters /day	Approx. 20 Liters/day

**B. Raw Material Consumption: NA**

Name of the Raw Material	Name of Product	Raw Material per Unit Product Output (MT/MT)	
		During the Previous Financial Year (2022-23)	During the Previous Financial Year (2023-24)
NA	NA	NA	NA

**PART - C**

**Pollutant Discharged to Environment / Unit of Output**

(Parameters as specified in the consent issued)

S. No.	Pollutants	Quantity of Pollutants Discharged (Mass / day)	Concentrations of Pollutants in discharged (Mass / Volume)	Percentage of variation from prescribed standard with reasons
(a)	<b>Water</b>			
(i)	<b>Domestic</b>	Zero Discharge	-	-
(ii)	<b>Industrial</b>	Zero Discharge	-	-
(b)	<b>Air: AAQM monitoring report attached</b>			
	<b>Stack Emission</b>			

### **PART-D**

(As specified under Hazardous waste / Management and Handling rules, 1989 as Amended -2008)

Hazardous Waste		Total Quantity (KL)	
		During the Previous Financial Year (2022-23)	During the Current Financial Year (2023-24)
(a)	From Process	NA	NA
(b)	From Pollution Control Facilities	NA	NA

### **PART – E**

#### **Bio Medical Wastes**

Solid Waste		Total Quantity Kg	
		During the Previous Financial Year (2022-23)	During the Current Financial Year (2023-24)
(a)	Bio- Medical Waste	2.25 Kg	14.85 Kg

Bio- Medical Waste generated in our OHC (Dispensary) disposed through authorized vendor from JSPCB M/s Bio-Genetics Laboratory PVT.LTD Dhanbad

### **PART-F**

**PLEASE SPECIFY THE CHARACTERISATIONS (IN TERMS OF COMPOSITION AND QUANTUM) OF HAZARDOUS AS WELL AS SOLID WASTES AND INDICATE DISPOSAL PRACTICE ADOPTED FOR BOTH THESE CATEGORIES OF WASTES**

The waste generated from OHC Dispensary are stored in color coded bin and disposed off as per the BMW rules 2016. All the Bio Medical Waste generated in our dispensary (OHC) Disposed through authorized vendor of JSPCB M/s Bio-Genetics Laboratory PVT.LTD Dhanbad

## **PART-G**

### **IMPACT OF THE POLLUTION ABATEMENT MEASURES TAKEN ON CONSERVATION OF NATURAL RESOURCES AND ON THE COST OF PRODUCTION**

Dalmia Cement Bharat Limited is a Cement Grinding Unit based on cost effective and environmentally clean technology.

- We are conserving our Natural resources by utilizing solid wastes of other industries in our cement making process. For cement manufacturing, we are utilizing Slag as one of the raw materials which is one of the solid wastes generate in steel making process by Bokaro Steel Limited (BSL).
- Rain water harvesting system implemented in our plant and colony area to conserve rain water .We have also renovated wells near surrounding village for the water conservation .
- 100 KLD STP constructed and maintained for the treatment of domestic waste water. treated water is being used in dust suppression and greenbelt development.
- We have the highly efficient Air Pollution Control Devices to bring down the point source emission as per the prescribed standard below 30 mg/Nm<sup>3</sup>. All our APCS devices are designed to restrict particulate matter emission level within CPCB norms. They have been installed at circuit of the production line and various material transfer points to clean the process and arrest the fugitive emissions. The particulate matter collected in the pollution control equipment's is recycled in process, reducing the cost of operation of pollution control equipment's.

## **PART-H**

### **ADDITIONAL MEASURES/INVESTMENT PROPOSALS FOR ENVIRONMENTAL PROTECTION INCLUDING ABATEMENT POLLUTION, PREVENTION OF POLLUTION**

We have accrued total 69.19 Acre lands. In which, we have been developed 33 % of green belt area of total land i.e. 22.83 Acres. Tree plantation is an integral part to the environment management plan at DCBL. The plantation drive is being carried out throughout the year. We planted 24889 no. of trees till now, at the survival rate of around 90%. The plantation details are as under-

Total greenbelt development area is 23.25 acres (more than 33 %) of total land 69.19 Acres to improve the aesthetic value and to arrest dust and also to mitigate noise pollution.

**YEAR WISE TREE PLANTATION DETAILS GIVEN AS FOLLOWS**

SL. No	Year	Number of plants	Area (in Acres)
1	1st (2011-2012)	5000	5
2	2nd (2012-2013)	2030	4
3	3rd (2013-2014)	2820	3
4	4th (2014-2015)	7620	5
5	5th (2015-2016)	5100	4
6	6th (2016-2017)	1500	1
7	7th (2017-2018)	500	0.55
8	8th (2018-2019)	69	0.3
9	9th (2019-2020)	100	0.4
10	10th (2020-2021)	150	Plantation done in the place of dead trees and vacant places in plant.
11	11th (2021-2022)	500	
12	12 <sup>th</sup> (2022-2023)	350	
13	13 <sup>th</sup> (2023-2024)	400	
	<b>Total</b>	<b>26139</b>	<b>23.25</b>

S.N	Year	Name of Species tree planted
1	2011 -2012	Gulmohar,Amaltash,Neem,Mihigini,shisham,Ashoka,Teak,Mango,Amala, Shiv Babool,Chatni.
2	2012-2013	Gulmohar,Amaltash,Neem,Mihigini,shisham,Ashoka,Teak,Mango, Amala
3	2013-2014	Ashoka,Chatni,Gulmohar,Amaltash,Neem,Mihigini, Shisham
4	2014-2015	Ashoka,Chatni,Gulmohar,Amaltash,Neem,Mihigini, Shisham

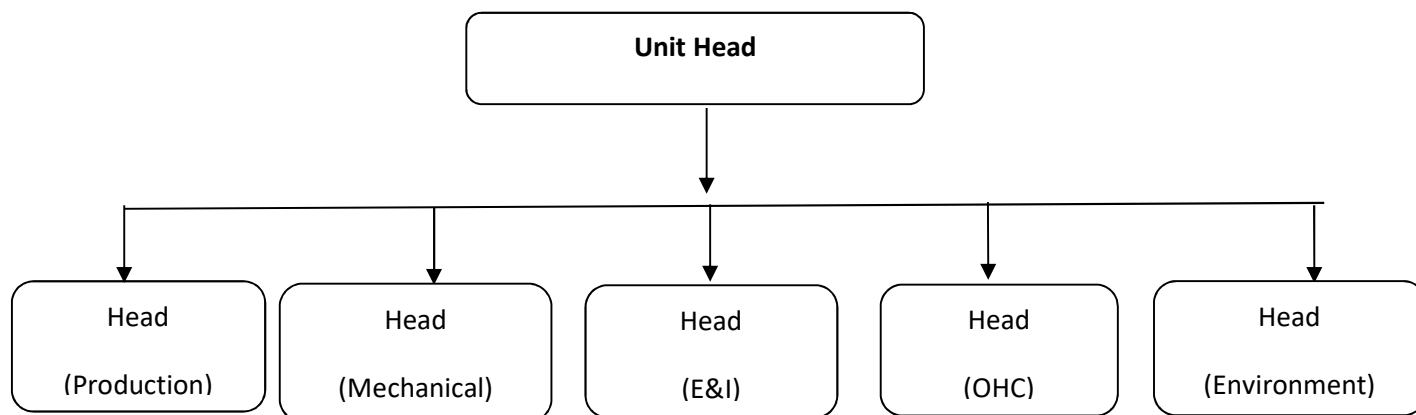
5	2015-2016	Chatni,Gulmohar,Neem,Mehegani,Shisham,Pipal,Teak,
6	2016-2017	Gulmohar,Chatni,Neem,Guava,Shiv Baboo,Mango,Jamun
7	2017-2018	Chatni,Gulmoha,Amaltash,Neem,shisham,Guava,Pipal
8	2018-2019	Chatni,Gulmohar,Neem,Mihigini,Guava,Mango,Amala,Neem
9	2019-2020	Chatni,Mihigini,Botal Pam,Mango,Amala,Lemon,Jamu
10	2020-2021	Chatni,Mihigini,,Mango,Kaaju.
11	2021-2022	Chatni,Mihigini,,Mango,Kaaju.
12	2022-2023	Chatni, Mihigini,Mango, Neem ,Gulmohar
13	2023-2024	Chatni,Gulmohar,Neem,Mihigini,Guava,Mango,Amala,Neem

### **PART-I**

#### **ANY OTHER PARTICULARS FOR IMPROVING THE QUALITY OF ENVIRONMENT**

Dalmia Cement (Bharat) Limited, Bokaro having Environmental Management Cell which is controlled by Unit Head by adequate team of technically qualified personnel apart from the operative staff of skilled, semi-skilled, unskilled and other categories for fulfil the following objectives

#### **ENVIRONMENT MANAGMENT CELL ORGANIZATION CHART**



1. Preparation & submission of fresh consent application, Hazardous waste authorization application, and renewal of all consent.



2. Timely submission of Statutory reports (Monthly, half-yearly and annually to JSPCB, CPCB, MoEF.
3. Ambient air quality monitoring (PM<sub>10</sub>, PM<sub>2.5</sub>, and fugitive emission in Cement Plant.
4. Measurement of both work place & ambient noise level in various locations in plant.
5. Assessments of water consumption Industrial and Domestic .
6. Keeping Plant clean through Housekeeping initiatives.
7. Performance evaluation of air pollution control system.

The Environment management cell is responsible for pollution monitoring activities in DCBL Bokaro. Ambient air quality monitoring, Stack monitoring, water and effluent quality checking, and checking of noise level in plant, following pollution monitoring equipment are available in Environment cell.

#### **DCBL Environment Monitoring Equipment's Details**

S. N.	Name of Equipments	No. of Equipments
<b>A. Ambient Air Quality Monitoring</b>		
1.	Respirable Dust Sampler (RDS) PM-10	04
2.	Respirable Dust Sampler PM10-2.5	04
3..	Portable DG Sets	01
4.	Continuous Ambient Air Monitoring System (CAAQMS)	02
<b>B. Stack Monitoring</b>		
5.	Stack Monitoring Kit	01
6	Continuous Stack Emission System (CEMS)	01
<b>C. Workplace Monitoring</b>		
8.	Sound Level Meter	01
9.	Personal Sampler APM 800	01
<b>D. Water Quality Monitoring</b>		
10.	Spectrophotometer-Model DR/2700 (Hach-USA)	01
11.	Turbidity Meter	01
<b>E. Others</b>		
12.	Hot Air Oven	01

In case the monitoring result of environment pollution found to exceed the allowable limits, the Environmental cell will suggest remedial action and get these suggestions implemented through the concerned authorities.

The Environmental Management cell will also co-ordinate all the related activities such as checking of performance of pollution control equipment installed in plant, Sewage treatment plant, and green belt development in DCBL Bokaro.

### **Significant energy saving & other measures implemented**

- (i) 2.nos Electric vehicle purchased for plant internal transportation work.
- (ii) Installed solar light and LED Lamps in street light replacing with CFL lamps
- (iii) Replacement of conventional lights with LED to save energy.
- (iv) 2 no's road swapping machine provided for cleaning of roads and other concreted area.
- (v) Top soils conservation during excavation and utilized the soil for nursery development and tree plantation.
- (vi) Regular maintenance of vehicles to control of vehicles emission & noise.
- (vii) Acoustic enclosures are provided at noise generating area to control of noise pollution

Use of personal protective Equipment: All employees are provided with personal protective Equipment's (PPEs), as per the requirement, such as workers working in plant area are provided with dust masks and in noise pollution areas with Ear plugs/Ear muff, safety boots gloves welding goggles, Goggles and safety helmet are also being provided as per the requirement

# ENVIRONMENT MONITORING REPORTS FOR THE YEAR 2023-2024

## AMBIENT AIR QUALITY MONITORING REPORT

DALMIA CEMENT (BHARAT) LIMITED, BOKARO												
Plot No. IV/A-7(P) Bokaro Industrial Area, Balidih, Bokaro Steel City (827014), Jharkhand, India												
Ambient Air quality monitoring report (2023-24) : Near Time Office												
	SO <sub>2</sub> µg/m <sup>3</sup>			NO <sub>x</sub> µg/m <sup>3</sup>			PM-10 µg/m <sup>3</sup>			PM-2.5 µg/m <sup>3</sup>		
	Min.	Max.	Avg.	Min.	Max.	Avg.	Min.	Max.	Avg.	Min.	Max.	Avg.
Apr-2023	7.9	13.7	10.8	16.4	23	19.7	52.0	58.1	55.1	26.8	29.5	28.2
May-2023	6.8	12.1	9.5	11.3	19.8	15.6	51.4	53.3	52.4	18.4	34.2	26.3
June-2023	6.9	10.4	8.7	17.5	23.1	20.3	50.2	56.9	53.6	26.8	33.1	29.9
July-2023	8.7	14.3	11.5	14.5	24.8	19.7	46.1	55.6	50.9	18.9	24.2	21.6
Aug-2023	7.1	11.8	9.5	13.2	21.4	17.3	38.2	54.9	46.6	14.3	23.5	18.9
Sep-2023	5.5	8.9	7.2	11.7	23.8	17.8	46.9	53.4	53.4	17.8	25.9	21.8
Oct-2023	6.7	13.1	9.9	15.4	24.2	19.8	50.7	55.9	53.3	23.1	31.6	27.5
Nov-2023	5.1	12.4	8.8	12.3	19.7	16.0	48.5	56.2	52.4	22.7	32.4	27.6
Dec-2023	6.2	10.7	8.5	18.1	22.8	20.5	41.6	53.2	47.4	25.6	36.8	31.2
Jan-2024	5.7	12.8	9.3	16.8	23.3	20.1	48.8	56.7	52.8	23.4	33.7	28.5
Feb-2024	4.8	11.1	8.0	13.7	19.8	16.8	44.4	55.8	50.1	17.6	31.8	24.7
Mar-2024	5.2	12.7	9.0	15.8	23.2	19.5	45.9	52.2	49.1	19.4	30.2	24.8
	9.2			18.5			52.4			25.9		
JSPCB Norms	SO <sub>2</sub> :80 µg/m <sup>3</sup>			NO <sub>2</sub> :80 µg/m <sup>3</sup>			PM-10 :100 µg/m <sup>3</sup>			PM-2.5 :60 µg/m <sup>3</sup>		

DALMIA CEMENT (BHARAT) LIMITED, BOKARO												
Plot No. IV/A-7(P) Bokaro Industrial Area, Balidih, Bokaro Steel City (827014), Jharkhand, India												
Ambient Air quality monitoring report (2023-24) : Near FH-3 Building												
	SO <sub>2</sub> µg/m <sup>3</sup>			NO <sub>x</sub> µg/m <sup>3</sup>			PM-10 µg/m <sup>3</sup>			PM-2.5 µg/m <sup>3</sup>		
	Min.	Max.	Avg.	Min.	Max.	Avg.	Min.	Max.	Avg.	Min.	Max.	Avg.
Apr-2023	6.8	11.6	9.2	10.3	19.8	15.1	49.1	56.0	52.5	22.3	31.5	26.9
May-2023	7.5	12.4	9.9	13.5	16.2	14.9	48.7	55.1	51.9	23.7	29.4	25.1
June-2023	6.7	13.1	9.9	12.9	21.1	17.0	47.4	52.9	50.1	22.9	30.7	26.8
July-2023	4.8	9.2	7.0	13.6	17.8	15.7	42.9	50.1	46.5	15.7	21.6	18.7
Aug-2023	7.3	9.8	8.5	14.4	20.1	17.3	38.5	51.1	44.8	14.1	22.2	18.1
Sep-2023	4.8	8.3	6.5	12.8	18.3	15.6	40.2	52.4	46.3	15.6	19.9	17.8
Oct-2023	6.4	10.4	8.4	11.5	17.8	14.7	49.1	56.7	52.9	24.1	34.5	29.3
Nov-2023	5.9	11.6	8.7	14.3	21.9	18.1	46.5	53.4	50.0	19.7	28.4	24.1
Dec-2023	7.6	10.1	9.8	15.7	17.3	16.5	41.6	54.2	47.9	22.4	31.2	26.8
Jan-2024	5.2	11.7	8.4	13.8	19.4	15.6	46.5	53.1	49.8	19.4	29.8	24.6
Feb-2024	4.9	12.5	8.7	10.7	16.4	13.7	43.2	52.6	48.1	18.5	25.3	21.9
Mar-2024	3.6	9.4	6.5	11.2	20.9	16.1	44.8	51.2	47.7	21.8	28.4	25.1
	8.4			16.2			48.8			24.0		
JSPCB Norms	SO <sub>2</sub> :80 µg/m <sup>3</sup>			NO <sub>2</sub> :80 µg/m <sup>3</sup>			PM-10 :100 µg/m <sup>3</sup>			PM-2.5 :60 µg/m <sup>3</sup>		

DALMIA CEMENT (BHARAT) LIMITED,BOKARO												
Plot No. IV/A-7(P) Bokaro Industrial Area, Balidih,Bokaro Steel City (827014), Jharkhand, India												
Ambient air quality monitoring report (2023-24) : Wagon Tippler												
	SO <sub>2</sub> µg/m <sup>3</sup>			Nox µg/m <sup>3</sup>			PM-10 µg/m <sup>3</sup>			PM-2.5 µg/m <sup>3</sup>		
	Min.	Max.	Avg.	Min.	Max.	Avg.	Min.	Max.	Avg.	Min.	Max.	Avg.
Apr-2023	5.2	12.5	8.9	14.6	20.8	17.7	48.3	55.7	52.0	26.6	32.9	29.8
May-2023	7.9	13.7	10.8	15.4	22.9	19.7	51.5	57.3	54.4	27.9	33.5	30.7
June-2023	8.8	16.3	12.6	13.8	24.2	19.0	50.1	53.9	52.0	24.3	35.2	29.8
July-2023	4.6	10.1	7.4	12.9	20.7	16.8	45.4	55.4	50.4	20.9	25.1	23.0
Aug-2023	6.7	11.6	9.2	20.7	19.4	20.1	49.9	54.1	52.0	21.7	26.4	24.1
Sep-2023	7.8	13.9	10.9	19.2	24.0	21.6	46.5	52.4	49.5	18.8	24.1	21.5
Oct-2023	9.1	16.1	12.6	17.5	23.1	20.3	51.4	58.1	55.8	22.6	37.5	30.1
Nov-2023	8.9	14.6	11.8	19.7	25.6	22.7	50.9	58.6	54.8	26.8	36.3	31.6
Dec-2023	9.6	18.6	14.1	16.8	21.8	19.3	49.2	59.0	55.0	25.9	37.9	32.1
Jan-2024	11.4	15.3	13.4	17.2	26.7	22.0	50.8	56.1	53.5	28.1	38.8	33.5
Feb-2024	9.4	19.2	14.3	14.5	22.3	18.4	48.4	57.7	54.1	20.6	34.7	27.7
Mar-2024	10.9	14.8	12.9	15.9	25.8	20.9	47.5	58.9	53.2	22.9	35.3	29.1
	11.5			19.8			53.1			27.9		
JSPCB Norms	SO <sub>2</sub> :80 µg/m <sup>3</sup>			NO <sub>2</sub> :80 µg/m <sup>3</sup>			PM-10 :100 µg/m <sup>3</sup>			PM-2.5 :60 µg/m <sup>3</sup>		

DALMIA CEMENT (BHARAT) LIMITED,BOKARO												
Plot No. IV/A-7(P) Bokaro Industrial Area, Balidih,Bokaro Steel City (827014), Jharkhand, India												
Ambient air quality monitoring report (2023-24) : Near Fabrication Yard												
	SO <sub>2</sub> µg/m <sup>3</sup>			NO <sub>x</sub> µg/m <sup>3</sup>			PM-10 µg/m <sup>3</sup>			PM-2.5 µg/m <sup>3</sup>		
	Min.	Max.	Avg.	Min.	Max.	Avg.	Min.	Max.	Avg.	Min.	Max.	Avg.
Apr-2023	5.2	13.9	9.55	19.2	26.3	22.7	51.4	57.3	54.3	25.2	35.4	30.3
May-2023	7.8	12.3	10.0	18.9	24.7	21.8	52.9	58.1	55.5	27.5	32.8	29.8
June-2023	8.4	15.9	12.1	15.8	25.6	20.7	50.7	56.8	53.7	28.3	34.5	31.4
July-2023	6.7	11.2	8.95	17.4	22.1	19.7	52.6	57.4	55.0	19.7	24.1	21.9
Aug-2023	9.6	14.7	12.1	19.3	28.4	23.8	46.1	57.5	51.8	25.4	35	30.2
Sep-2023	5.1	12.9	9.0	22.6	27.3	24.9	47.5	56.9	52.2	20.1	26.4	23.2
Oct-2023	8.0	10.8	9.4	18.2	24.5	21.3	53.7	59.8	56.7	30.7	37.2	34.1
Nov-2023	10.8	12.7	11.7	16.9	27.6	22.2	49.2	58.4	53.8	27.8	38.4	33.1
Dec-2023	6.9	13.2	10.1	19.6	32.7	26.1	51.1	60.6	54.4	29.2	33.6	31.4
Jan-2024	9.3	15.6	12.5	20.1	33.4	25.7	52.8	58.8	56.8	25.4	39.7	32.5
Feb-2024	7.5	13.7	10.6	16.2	24.6	20.4	53.4	57.3	55.3	21.5	28.1	24.8
Mar-2024	6.4	16.8	11.6	17.5	26.8	22.1	51.3	55.1	53.2	20.6	31.5	26.0
	10.6			22.7			54.4			29.1		
JSPCB Norms	SO <sub>2</sub> :80 µg/m <sup>3</sup>			NO <sub>2</sub> :80 µg/m <sup>3</sup>			PM-10 :100 µg/m <sup>3</sup>			PM-2.5 :60 µg/m <sup>3</sup>		

## NOISE LEVEL REPORT 2023-24

DALMIA CEMENT (BHARAT)LIMITED,BOKARO						
Plot No. IV/A-7(P) Bokaro Industrial Area, Balidih,Bokaro Steel City (827014), Jharkhand, India						
Noise Level report for the year 2023-24 : Near Time Office						
	Day Time dB(A)			Night Time dB(A)		
Month	Min.	Max.	Avg.	Min.	Max.	Avg.
Apr-23	61.5	65.7	63.6	57.5	62.9	60.2
May-23	62.3	64.6	64.0	55.8	60.3	58.1
Jun-23	61.5	65.7	63.6	54.7	59.2	57.0
Jul-23	60.1	64.2	62.2	57.9	62.9	60.2
Aug-23	62.7	66.9	64.8	53.8	63.9	58.9
Sep-23	61.5	64.2	62.9	58.4	61.5	60.0
Oct-23	62.8	66.5	64.7	53.7	64.6	59.2
Nov-23	61.4	65.3	63.7	57.0	62.9	60.2
Dec-23	63.1	66.6	64.8	59.2	66.9	63.1
Jan-24	60.7	63.3	62.0	57.6	62.8	60.2
Feb-24	62.8	65.7	64.3	58.2	64.5	61.4
Mar-24	61.6	64.9	63.3	54.9	62.7	58.8
Avg.	63.6			59.7		
JSPCB NORMS	DAY TIME dB(A)		75	NIGHT TIME dB(A)		70

DALMIA CEMENT (BHARAT)LIMITED,BOKARO						
Plot No. IV/A-7(P) Bokaro Industrial Area, Balidih,Bokaro Steel City (827014), Jharkhand, India						
Noise Level report for the year 2023-24 :Near FH-3 Building						
	Day Time dB(A)			Night Time dB(A)		
Month	Min.	Max.	Avg.	Min.	Max.	Avg.
Apr-23	41.6	44.9	43.3	39.8	42.9	41.4
May-23	42.9	44.5	43.7	41.6	43.3	42.5
Jun-23	48.6	53.1	50.9	41.7	46.2	44.0
Jul-23	41.1	44.3	42.7	37.9	41.7	39.8
Aug-23	42.8	43.7	43.3	40.6	42.5	41.6
Sep-23	41.3	44.0	42.7	39.2	44.3	42.1
Oct-23	43.8	46.5	45.2	39.9	42.7	41.3
Nov-23	43.5	46.7	45.1	38.8	41.4	40.1
Dec-23	44.6	47.3	46.0	39.7	45.7	42.7
Jan-24	42.2	49.8	46.0	42.1	44.9	43.5
Feb-24	42.8	46.5	44.7	41.2	43.7	42.5
Mar-24	41.1	44.1	42.6	38.1	46.2	42.2
Avg.	44.7			42.0		
JSPCB NORMS	DAY TIME dB(A)		55	NIGHT TIME dB(A)		45

<b>DALMIA CEMENT (BHARAT)LIMITED,BOKARO</b>						
Plot No. IV/A-7(P) Bokaro Industrial Area, Balidih, Bokaro Steel City (827014), Jharkhand, India						
<b>Noise Level report for the year 2023-24</b>						
	<b>Near Wagon Tippler</b>					
	<b>Day Time dB(A)</b>			<b>Night Time dB(A)</b>		
<b>Month</b>	<b>Min.</b>	<b>Max.</b>	<b>Avg.</b>	<b>Min.</b>	<b>Max.</b>	<b>Avg.</b>
<b>Apr-23</b>	62.3	67.9	65.1	61.0	65.8	63.4
<b>May-23</b>	65.8	69.6	67.7	60.4	64.2	62.3
<b>Jun-23</b>	64.9	67.5	66.2	60.6	62.7	61.7
<b>Jul-23</b>	62.3	65.8	64.1	62.0	64.2	63.1
<b>Aug-23</b>	63.5	68.1	65.8	61.9	66.5	64.2
<b>Sep-23</b>	62.4	67.8	65.1	60.8	63.9	62.4
<b>Oct-23</b>	62.7	65.3	64.0	61.0	65.8	63.4
<b>Nov-23</b>	63.8	67.2	65.5	59.9	62.4	61.2
<b>Dec-23</b>	62.6	69.7	66.2	60.7	64.1	62.4
<b>Jan-24</b>	61.7	64.5	63.1	59.9	63.8	61.9
<b>Feb-24</b>	62.7	67.1	64.9	59.5	64.5	62.0
<b>Mar-24</b>	64.3	69.7	67.0	56.8	62.7	59.8
<b>Avg.</b>	<b>65.4</b>			<b>62.3</b>		
<b>JSPCB NORMS</b>	<b>DAY TIME dB(A)</b>		<b>75</b>	<b>NIGHT TIME dB (A)</b>		<b>70</b>

<b>DALMIA CEMENT (BHARAT)LIMITED,BOKARO</b>						
Plot No. IV/A-7(P) Bokaro Industrial Area, Balidih,Bokaro Steel City (827014), Jharkhand, India						
<b>Noise Level report for the year 2023-24</b>						
<b>Near Fabrication Yard</b>						
	<b>Day Time</b>			<b>Night Time</b>		
	<b>Min.</b>	<b>Max.</b>	<b>Avg.</b>	<b>Min.</b>	<b>Max.</b>	<b>Avg.</b>
<b>Apr-23</b>	65.3	69.1	67.2	63.3	67.6	65.5
<b>May-23</b>	64.2	65.3	64.8	59.4	61.6	60.5
<b>Jun-23</b>	65.7	68.2	67.0	58.6	62.9	60.8
<b>Jul-23</b>	64.3	69.1	66.7	61.9	65.3	63.6
<b>Aug-23</b>	65.7	69.4	67.6	62.6	64.1	63.4
<b>Sep-23</b>	64.9	68.7	66.8	59.3	62.5	60.9
<b>Oct-23</b>	65.1	69.4	67.3	61.7	65.6	63.7
<b>Nov-23</b>	61.6	68.4	65.0	60.0	63.9	62.0
<b>Dec-23</b>	63.4	66.2	64.8	59.7	63.5	61.6
<b>Jan-24</b>	62.9	67.5	65.2	57.3	64.5	60.9
<b>Feb-24</b>	60.8	63.7	62.3	53.9	63.8	58.9
<b>Mar-24</b>	61.7	65.9	63.8	52.1	58.6	55.4
<b>Avg.</b>	<b>65.7</b>			<b>61.4</b>		
<b>JSPCB NORMS</b>	<b>DAY TIME dB(A)</b>		<b>75</b>	<b>NIGHT TIME dB(A)</b>		<b>70</b>

## STP Treated water analysis report for the year 2023-24

DALMIA CEMENT (BHARAT) LIMITED, BOKARO															
STP Treated water analysis report for the year 2023-24															
Sr.no	Parameter	Apr-23	May-23	Jun-23	Jul-23	Aug-23	Sep-23	Oct-23	Nov-23	Dec-23	Jan-24	Feb-24	Mar-24	Yarly	JSPCB Norms
1	PH	7.6	7.5	7.1	7.6	7.5	7.2	7.5	7.1	7.2	7.1	7.2	7.50	7.34	5.5-9.0
2	Total Suspended solid (mg/lit.)	13	15.0	18	21	22	18	24	20	22	33	36	38.00	23.33	100 mg/L
3	COD (mg/lit.)	40	45.0	48	44	40	32	44	24	20	84	80	76.00	48.08	250 mg/L
4	BOD (mg/lit.)	8.5	7.2	8.6	6	5.1	BDL	6	BDL	BDL	12	11	12.00	8.49	30 mg/L
5	Oil & Grease (mg/lit)	4.3	6.1	6	4.8	4.4	7.2	3.2	BDL	7.1	3.6	1.5	2.90	4.65	10 mg/L