



JK Cement Works, Aligarh

A unit of JK Cement Ltd.

CIN: L17229UP1994PLC017199

🏠 Aligarh - Kasimpur Road, Village : Satha,  
Pargana - Morthal, Tehsil : Koil,  
Distt. Aligarh-202 127, INDIA

🌐 www.jkcement.com

Ref. No.: AL/EMD/HOPB/F 04

Dated: 25.09.2024

To,

The Chief Environment Officer, Circle-4  
Uttar Pradesh Pollution Control Board  
12 TC, Vibhuti Khand, Gomati Nagar  
**Lucknow (UP)** E.mail:- [ceo4@uppcb.com](mailto:ceo4@uppcb.com)

**Subject:** Environmental Statement Report for the F. Year- 2023 - 2024 of J.K. Cement Limited, ALIGARH – KASIMPUR ROAD, VILLAGE - SATHA, PARGANA -MORTHAL, TESHIL-KOIL, DISTRICT– ALIGARH (UP) –202 127.

**Ref.:** 1 Consolidated Consent To Operate Your Letter No.194855/UPPCB/Aligarh (UPPCBRO)/CTO/both/ALIGARH/2023 dated 18/2/24.

2. H 50793/ C-4/ Hazardous/ / 2019, Dated 08.07.2020.

Dear Sir,

With reference to above mentioned subject matter, please find enclosed herewith Environment Statement Report of JK CEMENT LIMITED, ALIGARH for the FY 2023-2024 for your reference and record. We hope you find the same in order.

Thanking you,

Yours faithfully,

For J.K. Cement Works, Aligarh

Hemant Dave

Unit Head

Encl.: Form- V along with Supporting Annexures (03 Nos.)

CC: The Regional Officer, UP Pollution Control Board, J-1, Gyan Sarovar Colony,

## Corporate Office

- Prism Tower, 5th Floor, Ninaniya Estate, Gwal Pahari, Gurugram - 122102, Haryana
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Manufacturing Units at :

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Katni, Panna (M.P.) | Aligarh, Hamirpur (U.P.) | Balasinor (Gujarat) | Fujairah

**JK CEMENT**  
**WallMaxX**  
White Cement Wall Putty



Registered Office : 🏠 Kamla Tower, Kanpur-208001, U.P., India. 📞 +91-512-2371478 to 85 📠 91-512-2399854 🌐 [www.jkcement.com](http://www.jkcement.com)

**ENVIRONMENTAL STATEMENT**  
**FORM - V**

Environmental Statement for the financial year 2023 - 24, ending the 31<sup>st</sup> March' 2024

**PART-A**

i. Name an address of the owner/occupier of the industry operation or process	<b>JK Cement Works (Clinker Grinding Unit)</b> <b>(A Unit of JK Cement Limited)</b> Village: Satha, Tehsil: Koil, District: Aligarh (UP)
ii. Industry category Primary - (STC Code) Secondary - (STC Code)	Primary
iii. Production capacity	Cement - 5,836 TPD (2.0 Million TPA)
iv. Year of establishment- (UNIT WISE)	Year- 2020
v. Date of last environmental statement submitted	21.09.2023

**PART-B**

**WATER AND RAW MATERIAL CONSUMPTION**

i. **WATER CONSUMPTION** (in m<sup>3</sup>/day)

Process : 27.25 KLD  
Domestic : 9.25 KLD.

Name of products	Process water consumption per unit of products	
	During the previous financial year (2022-23) (KL/MT)	During the current financial year (2023-24) (KL/MT)
<b>CEMENT</b>	0.02	0.008

ii. **RAW MATERIAL CONSUMPTION**

Name of Raw Material	Name of products	Consumption of Raw Material per unit of output	
		During the previous financial year (2022-23)	During the current financial year (2023-24)
Clinker	Cement	0.5800	0.5558
Gypsum		0.0828	.099
Flyash		0.3372	0.3452

**PART-C**  
**POLLUTION DISCHARGE TO ENVIRONMENT / UNIT OF OUTPUT**

Pollutants	Quantity of pollutants discharged (Ton/Day)	Concentration of pollutants in discharge (mg/Nm3)	Percentage of variation from prescribed standards with reasons
(a) Water	Cement plant is being operated on dry process technology; hence, no liquid effluent is generated. Only Domestic wastewater is being generated from the office toilet and canteen and the same is being treated in STP (15 KLD) and treated water is being reused in plantation and horticulture.		
(b) Air	<ol style="list-style-type: none"> <li>1. Stack Emission Monitoring Report is attached as <b>Annexure- I</b>.</li> <li>2. Ambient Air Monitoring Report is attached as <b>Annexure- II</b>.</li> <li>3. Ambient Air Noise monitoring Report is attached as <b>Annexure- III</b>.</li> </ol>		

**PART-D**

(As specified under Hazardous & Other Waste Management Rules' 2016)

Hazardous waste	Total Quantity	
	During previous financial year (2022-23) (KL)	During current financial year (2023-24) (KL)
(a) From Process	Used oil (5.1) – 1.54 Waste oil (5.2) .78 Cat.33.1 – NIL Cat. 33.2- NIL	Used oil (5.1) – 0.64 Waste oil (5.2) -0.20 (200 KG) Cat.33.1 – NIL Cat. 33.2- NIL
(b) From Pollution Control facilities	Not Applicable	Not Applicable

\* Hazardous waste generated will be sold to authorized recycler authorized by CPCB.

**PART-E**  
**SOLID WASTE**

Source	Total Quantity	
	During previous financial year (2022-23) (MT/Year)	During current financial year (2023-24) (MT/Year)
(a) From process	NONE	NONE
(b) From pollution control facility	Dust collected in bag house and bag filters are recycled into the system	Dust collected in bag house and bag filters are recycled into the system
(c) Quantity rejected or reutilized with in the unit	100%	100%

#### Other Waste

Name of Solid Waste	Total Quantity	
	During previous financial year (2022-23) (MT/Year)	During current financial year (2023-24) (MT/Year)
Metal Scrap	34.02	50.725
Plastic Scrap	16.72	0
Empty Drums	8	6
Wooden Scrap & Cable Scrap	0	0

#### PART-F

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

- 1) Hazardous waste generated in the form of used / spent oil, waste / residue containing oil, which is stored in barrels at safe & dedicated area and will be sold to recycler approved by Central Pollution Control Board.
- 2) Dust collected from pollution control equipment's (i.e. from Bag House and Bag Filters) is totally recycled in the process.BVBVV

#### PART-G

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

Cement manufacturing is a dry process technology hence no effluent is generated from the process. Which is cost effective and environmentally clean technology. The advantage of dry process is also in fuel economy. The stack emissions from the plant are controlled by equipment like Bag filters installed at various material transfer points to arrest the fugitive emissions. The particulate matter collected from the pollution control equipment is recycled in process and optimizing the cost of operation of pollution control equipment, conserving natural raw material and hence no impact on the environment.

<b>Environment expenses on 2023-24</b>	<b>Expenses cost 2023-24 in Lacs</b>	<b>Proposed cost-2024-25 in Lacs</b>
1. Green belt development expenses	7.1	7.81
2. plant cleaning expenses.	31.13	34.243
3. Environment lab expenses.	0.00	0.00
4. Environment Management and Monitoring Expenses	3.79	4.169
5. Miscellaneous environmental expenses	25.71	28.281
<b>Total</b>	<b>67.73</b>	<b>74.503</b>

### PART-H

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

- 1) Closed clinker storage silo constructed to reduce the fugitive dust emission, with sufficient Bag filters.
- 2) Fly ash stored in closed silo constructed to reduce the fugitive dust emission, with sufficient Bag filters.
- 3) Gypsum stored in covered raw material yard to reduce the fugitive dust emission, with sufficient Bag filters.

### PART-I

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

- 1) Monitoring of stack emission and Ambient Air Quality and Water Quality is being done regularly as mentioned in consent to operate.
- 2) Ambient Air Quality Monitoring Stations (04 Nos.) have been installed at periphery of the plant.
- 3) Continuous Emission Monitoring Systems (CEMS) for PM have been installed at stack of cement mill and real time data transfer to Pollution Control Board server.

- 4) Bag filters (25 Nos.) have been installed at various material transfer points to control fugitive emission and 01 No. Bag House has been installed at Cement Mill.
- 5) Cement being manufacture dry process and there is no any effluent generated from starting the process.
- 6) The process hence maintaining Zero Liquid Discharge (ZLD) unit.
- 7) Fly ash purchased from nearby Thermal Power Plant for cement production.
- 8) Raw materials are stored in covered shed, product in closed silo with high efficient bag filters for fugitive dust emission control.
- 9) Proper Housekeeping and cleaning is being done with the help of road sweeping machines.
- 10) Covered Conveyor Belts are provided for transfer of materials. Besides this Bag filters are also installed at material transfer junctions to mitigate fugitive emissions.  
Belt Conveyor belt
- 11) Cemented road constructed to avoid fugitive dust generation during the movement of vehicle.
- 12) Online water level recorder has been installed for ground water level monitoring.
- 13) Industry has constructed 03 nos. of rain water harvesting structures in plant to recharge ground water.
- 14) 3850 Nos of tree saplings has been planted in FY 2023-24. Total plantation Area is 1.92 ha which has been planted with 17330 no's of tree saplings.

Yours Faithfully

J K Cement Limited



Hemant Dave  
Unit Head

## J. K. CEMENT LIMITED, ALIGARH

## Cement Mill Stack Emission Monitoring Results for FY: 2023-24

Month	Air Pollution Control Device	Standard Limit PM – mg/Nm <sup>3</sup>	Cement Mill PM – mg/Nm <sup>3</sup>
Apr-23	Bag House	30	11.9
May-23	Bag House	30	12.3
Jun-23	Bag House	30	13.0
Jul-23	Bag House	30	11.3
Aug-23	Bag House	30	10.6
Sep-23	Bag House	30	10.7
Oct-23	Bag House	30	8.4
Nov-23	Bag House	30	9.6
Dec-23	Bag House	30	10.5
Jan-24	Bag House	30	8.1
Feb-24	Bag House	30	9.8
Mar-24	Bag House	30	11.8

Checked  
by  
M.K. Sharma

Environmental Monitoring Data Sheet- ALIGARH UNIT

Site Name:

Sr. No.	Environmental Monitoring's	Frequency	Monitoring Locations
1	Ambient Air monitoring	Quarterly	Plant boundry east direction
			Plant boundry north direction
			Plant boundry west direction
			Plant boundry south direction
2	Noise Monitoring	Quarterly	Plant boundry east direction
			Plant boundry west direction
			Plant boundry north direction
			Plant boundry south direction
			Compressor room area
			Cement mill area
			Unloadig area
			Packing plant area
			DG 1250 KVA
DG 125 KVA			
3	STP inlet water analysis	Quarterly	Near CCR
4	STP outlet water analysis	Quarterly	Near CCR
5	Drinking water analysis	Quarterly	Water cooler near CCR building
			Water cooler near BRU
			Water cooler near Main gate
6	Fugitive emission monitoring	Quarterly	Unloading area
			Fly ash silo area
			Packing area
			Cement Mill area
8	Soil Sample analysis	N A	NA
9	Ground water analysis	Quarterly	Bore Well 1 - BRU side and Borewell-2 Packing side
10	Process Stack emission monitoring	Quarterly	Cement Mill
			Packing plant Bag filter -1
			Packing plant Bag filter -2
			Packing plant Bag filter -3
			Packing plant Bag filter -4
			DG 1250 KVA
11	DG Set Stack emission monitoring	Quarterly	1250 KVA
		Quarterly	125 KVA
12	Any other, Please specify	No	

Checked by  
M.K. Singh



**AMBIENT AIR MONITORING - 2023 TO 2024**

Months	PLANT BOUNDARY TOWARDS EAST DIRECTION				PLANT BOUNDARY TOWARDS WEST DIRECTION (PROJECT OFFICE)				PLANT BOUNDARY TOWARDS NORTH DIRECTION				PLANT BOUNDARY TOWARDS SOUTH DIRECTION (NEAR CCR BUILDING)			
	PM-10	PM 2.5	SO2	NOx	PM-10	PM 2.5	SO2	NOx	PM-10	PM 2.5	SO2	NOx	PM-10	PM 2.5	SO2	NOx
23-Apr	55.5	29.5	12.4	21.8	48.4	30.5	11.9	25.6	50.4	31.0	12.8	26.2	51.2	32.4	12.2	25.5
23-May	54.6	35.7	14.1	21.8	53.0	33.6	13.8	23.6	54.7	34.2	13.7	24.5	55.2	35.9	15.6	23.2
23-Jun	53.9	33.5	14.9	28.5	52.6	33.8	15.2	27.9	53.9	33.5	14.1	21.8	53.2	34.1	13.9	24.3
23-Jul	35.1	16.1	22.3	22.3	54.6	39.2	14.0	26.1	56.1	36.1	14.7	28.1	55.5	36.4	14.6	26.7
23-Aug	56.8	36.8	14.2	22.4	51.9	32.7	14.0	20.9	55.8	34.5	13.5	22.8	56.5	34.7	16.3	23.2
23-Sep	51.7	35.4	14.9	28.5	50.5	36.3	15.2	27.9	49.4	36.1	14.7	30.0	56.0	35.6	15.4	24.9
23-Oct	55.5	29.5	12.4	21.8	48.4	30.5	11.9	25.6	50.4	31.0	12.8	26.2	51.2	32.4	12.2	25.5
23-Nov	56.8	36.8	14.2	22.4	51.9	32.7	14.0	20.9	55.8	34.5	13.5	22.8	56.5	34.7	16.3	23.2
23-Dec	51.7	35.4	14.9	28.5	50.5	36.3	15.2	27.9	49.4	36.1	14.7	30.0	53.4	35.9	17.2	29.6
24-Jan	52.5	31.8	12.6	29.6	54.6	39.2	14.0	26.1	56.1	36.1	14.7	28.1	55.5	36.4	14.6	26.5
24-Feb	57.2	35.1	16.1	22.3	54.9	35.0	15.9	21.1	56.5	36.7	16.0	21.2	57.6	35.7	16.9	20.0
24-Mar	54.3	37.6	14.7	25.4	56.0	37.4	16.0	26.1	55.7	35.0	17.7	26.2	54.2	37.0	16.4	27.8
<b>Average</b>	<b>53.0</b>	<b>32.8</b>	<b>14.8</b>	<b>24.6</b>	<b>52.3</b>	<b>34.8</b>	<b>14.3</b>	<b>27.1</b>	<b>50.4</b>	<b>33.9</b>	<b>14.4</b>	<b>25.7</b>	<b>54.7</b>	<b>36.6</b>	<b>15.1</b>	<b>25.0</b>

*Annexure-2*

*Checked  
M.K. Singh  
24/03/24*

*Annex. B*

Noise level -2023-24						
Month	Day / Night	PLANT BOUNDARY TOWARDS EAST DIRECTION	PLANT BOUNDARY TOWARDS WEST DIRECTION (PROJECT OFFICE)	PLANT BOUNDARY TOWARDS NORTH DIRECTION	PLANT BOUNDARY TOWARDS SOUTH DIRECTION (NEAR CCR BUILDING)	
Apr-23	Day	77.1	76.2	79.5	78.2	
	Night	64.6	61.7	60.1	62.8	
May-23	Day	78.8	72.4	76.2	74.8	
	Night	63.1	60.2	64.8	61.4	
Jun-23	Day	75.6	77.4	79.1	76.8	
	Night	63.8	62.6	58.7	62.4	
Jul-23	Day	67.4	68.8	69.5	68.2	
	Night	64.4	61.7	60.5	62.8	
Aug-23	Day	69.5	71.8	67.3	65.2	
	Night	63.6	60.2	64.8	61.4	
Sep-23	Day	67.6	69.4	67.4	64.8	
	Night	64.2	62.4	59.2	63.4	
Oct-23	Day	67.1	66.2	69.5	68.2	
	Night	64.6	61.7	60.1	62.8	
Nov-23	Day	68.8	62.4	66.2	64.8	
	Night	63.1	60.2	64.8	61.4	
Dec-23	Day	65.6	67.4	69.1	66.8	
	Night	63.8	62.6	58.7	62.4	
Jan-24	Day	68.4	65.5	68.5	68.4	
	Night	64.3	61.4	60.6	62.5	
Feb-24	Day	67.8	63.4	66.2	64.8	
	Night	63.1	60.2	64.8	61.4	
Mar-24	Day	64.8	66.8	68.8	65.8	
	Night	64.6	62.6	58.8	62.4	
QUARTERLY AVERAGE	DAY	64.5	63.67	65.18	63.60	
	NIGHT	64	61.63	60.93	62.37	

*Checked by  
Pratik. Shrivastava*