

To,
Member Secretary
M.P. Pollution Control Board E-5,
Area Colony Paryavaran Parisar,
Bhopal

Date-27.09.2024

Sub: - Environment Statement Report (Form-V) for FY- 2023-24, for JK CEMENT WORKS, UJJAIN (A UNIT OF JK CEMENT LIMITED), Village- Madgavgarh, The- Ghatiya, Dist- Ujjain.

Ref- Consent to operate No.: CTO--60801, Outward No.: 121033,30/07/2024,
Consent to operate No.: CTO- 58947, Outward No.:119339,15/12/2023, 118917,27/09/2023

Dear sir,

With reference to the above-mentioned subject matter please find the enclosed herewith Environment Statement Report, Form-V of JK CEMENT LIMITED, UJJAIN for FY-2023-24 for your reference and record.

Thanking you,

For JK Cement Works, Ujjain



Authorized Signatory

Corporate Office

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CIN: L17229UP1994PLC017199

**JK SUPER
CEMENT**
BUILD SAFE

Manufacturing Units at :
Nimbahera, Mangrol, Gotan (Rajasthan) | Muddapur (Karnataka)
Jharti (Haryana) | Katni (M.P.) | Aligarh (U.P.) | Balasinor (Gujarat)

JKcement
WallMaxX
White Cement Based Putty



ENVIRONMENTAL STATEMENT

FORM - V

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

PART-A

i. Name an address of the owner/occupier of the industry operation or process	J.K. Cement Works, (A Unit of JK Cement Limited) Village: Madhavgarh, Tehsil: Ghatiya, District: Ujjain (Madhya Pradesh)
ii. Industry category Primary - (STC Code) Secondary - (STC Code)	Primary
iii. Production capacity 1. Cement	1.5 MTPA
iv. Year of establishment- (UNIT WISE)	Year- 2023
v. Date of last environmental statement submitted	NA

PART-B

WATER AND RAW MATERIAL CONSUMPTION

i. WATER CONSUMPTION (in m3/day)

Process : 58 m3/day

Domestic : 5 m3/day

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)
1. Cement	00	0.025

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	NA	0.60
Gypsum		NA	0.32
Fly ash		NA	0.08

PART-C

POLLUTION DISCHARGE TO ENVIRONMENT / UNIT OF OUTPUT

Pollutants	Quantity of pollutants discharged (Ton/Day)	Concentration of pollutants in discharge (mg/Nm ³)	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. Domestic wastewater generated from the office toilet and canteen is being treated in sewage treatment plant and treated water is being reused in plantation and horticulture. STP treated water analysis report is attached as Annexure-I		
(b) Air	<ol style="list-style-type: none"> 1. Stack Emission Monitoring Report is attached as Annexure- II. 2. Ambient Air Monitoring Report is attached as Annexure- III. 3. Ambient Air Noise Monitoring Report is attached as Annexure- IV. 		

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	NA	0
(b) From Pollution Control facilities	Not applicable	Not applicable

* Hazardous waste generated will be sold to authorized recyclers 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	NA	Dust collected in bag house and bag filters are recycled into the system
(c) Quantity rejected or reutilized with in the unit	NA	100%

Other Solid Waste

<u>Name of solid waste</u>	Total Quantity	
	During previous financial year (2022-23) (MT/Year)	During current financial year (2023-24) (MT/Year)
Metal Scrap	NA	99.12
Plastic Scrap	NA	0
Empty Drums	NA	20
Wooden scrap	NA	60
Cable scrap	NA	10
Paper Waste	NA	1.84
Torn PP Bags & other misc. Plastic Waste	NA	20.21
E-waste (Old computers, printers, circuit boards etc.)	NA	0
Spent Batteries	NA	0
Filter bags scrap	NA	0
Cotton waste/cotton rags	NA	0.002

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, empty barrels/containers/liners contaminated with hazardous chemicals/wastes, contaminated cotton rags or other cleaning materials 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 filter) is totally recycled in the process.

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 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.

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 High efficiency Bag filters.
- 2) Fly ash stored in closed silo constructed to reduce the fugitive dust emission, with High efficiency 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 (03 Nos.) have been installed at periphery of the plant. Also 01 nos. CAAQMS installed at plant periphery.
- 3) Continuous Emission Monitoring Systems (CEMS) for PM have been installed at stack of cement mill and real time data transfer to CPCB server.
- 4) Bag filters (26 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 is being manufactured in dry process and there is no any effluent generated from the process hence maintaining Zero Liquid Discharge (ZLD) unit.
- 6) Fly ash purchased from nearby thermal power plant and use for cement production.
- 7) Raw materials are stored in covered shed, product in closed silo with highly efficient bag filters for fugitive dust emission control.
- 8) Proper Housekeeping and cleaning are being done with the help of road sweeping machines.
- 9) Cover shed Constructed to store the raw material, to avoid fugitive emission. Finish product stored in closed silo.

- 10) All Belt Conveyor belt is fully covered & also installed Bag filter at all material transfer points
- 11) Cemented road constructed to avoid fugitive dust generation during the movement of vehicle.
- 12) Ground water level monitoring is being done.
- 13) Industry has constructed 04 Nos. of rainwater harvesting structures in plant
- 14) A total of 1500 plants planted till March - 2024 and 7,607 m² area covered (21.7% area) under green belt.

Yours faithfully,
For JK Cement Works, Ujjain



Authorized signatory

JK CEMENT WORKS UJJAIN
STP Treated Water Analysis Report 2023-24

SN	PARAMETER	January	February	March
1	Chemical Oxygen Demand	40.00	47.00	42.00
2	Biochemical Oxygen Demand for 3 days at 27°C	8.00	9.00	8.00
3	Total Suspended Solid	15.80	14.2	15.8
4	Oil and Grease	BDL(DL-3.0)	BDL(DL-3.0)	BDL(DL-3.0)

JK CEMENT WORKS UJJAIN
Stack Emission Monitoring Report 2023-24

Month	Air Pollution Control Device	Standard Limit mg/NM3	Cement Mill PM- mg/NM3
January	Bag House	30	10.5
February	Bag House	30	10.9
March	Bag House	30	9.3

JK CEMENT WORKS UJJAIN
Ambient Air Monitoring Report 2023-24

Month	Main Gate				STP				BRU			
	PM10	PM2.5	SO2	NOx	PM10	PM2.5	SO2	NOx	PM10	PM2.5	SO2	NOx
January	87.6	51	10.2	26.8	72.4	47.9	8.8	22.8	81.7	50	9.8	24
February	84.3	49.8	9.4	25.4	68.9	45.6	8.4	21.7	77.4	51.8	10.4	23.5
March	68.1	47.1	8.4	22.8	63.9	44.5	7.5	20.8	71.4	52.3	7.6	21.9

JK CEMENT WORKS UJJAIN
Ambient Noise Monitoring Report 2023-24

Month	Main Gate		BRU		STP	
	Day	Night	Day	Night	Day	Night
Jan	66.2	62.4	68.4	66.2	59.2	57.5
Feb	68.2	66.1	68.41	66.9	59.7	57.6
March	68.7	65.9	67.6	67.9	60.3	57.8