

Ref. No.: JKJharli/PC/993

Dated: 14<sup>th</sup> September 2024

To,  
The Member Secretary,  
Haryana State Pollution Control Board  
C-11, Sector-6, **Panchkula** 134 109

**Sub.:** Environmental Statement Report (Form - V) for the F. Year 2023 - 2024 of J.K. Cement Limited, Village - Jharli, Tehsil - Matanhail, District - Jhajjar (Haryana).

**Ref.:** CTO: HSPCB/Consent/ : 313098022JHACTO5188584, Dated 18.08.2022

Dear Sir,

With reference to above mentioned subject matter, please find enclosed herewith Environment Statement Report (Form - V) of J.K. Cement Limited, Jharli for the FY 2023 – 24 for your reference and record. We believe you will find the same in order.

Thanking You,

Yours faithfully,

**For J. K. Cement Works Jharli**  
**(A Unit of J. K. Cement Ltd.)**



**Gopal Gupta**  
**(Unit Head)**

Enclosure: Form - V along with Supporting Annexures (04 Nos.)

Copy To: The Regional Officer, Haryana State Pollution Control Board, SCF No. 42 & 43, Shopping Centre, Sector-6, HUDA, Bahadurgarh, District: - Jhajjar (Haryana) - 124 507  
Mail id:- hspcbrobdh@gmail.com

## Corporate Office

📍 Padam Tower, 19, DDA Community Centre,  
Okhla, Phase - 1, New Delhi - 110020, India  
☎ +011-49220000  
✉ admin.padamtower@jkcement.com  
🌐 www.jkcement.com

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**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	J.K. Cement Works, Jharli Village: Jharli, Tehsil: Matanhail, District: Jhajjar (Haryana)
ii. Industry category Primary - (STC Code) Secondary - (STC Code)	Primary
iii. Production capacity 1. Cement 2. Tile Adhesive	6240 MT/Day 144 MT/ Day
iv. Year of establishment- (UNIT WISE)	Year- 2014
v. Date of last environmental statement submitted	23.09.2023

**PART-B**

**WATER AND RAW MATERIAL CONSUMPTION**

i. **WATER CONSUMPTION** (in m3/day)

Process : 6.5 m3/day

Domestic : 26.55 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	0.0005	0.0014
2. Tile Adhesive	0.00	0.00



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	0.55	0.55
Gypsum		0.09	0.1
Fly ash %		0.31	0.32
Pond ash %		0.04	0.02
Silica Sand	Tile Adhesive	0.67	0.63
Cement		0.30	0.33
Fly Ash		0.01	0.01
Others (Mecellose FMC, Vinnapass, Marble powder, Metakaoline etc.)		0.02	0.02

PART-C

POLLUTION DISCHARGE TO ENVIRONMENT / UNIT OF OUTPUT

Pollutants	Quantity of pollutants discharged (Ton/Day)	Concentration of pollutants in discharge (mg/Nm <sup>3</sup> )	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 <b>Annexure-I</b>		
(b) Air	<ol style="list-style-type: none"> <li>Stack Emission Monitoring Report is attached as <b>Annexure- II</b>.</li> <li>Ambient Air Monitoring Report is attached as <b>Annexure- III</b>.</li> <li>Ambient Air Noise Monitoring Report is attached as <b>Annexure- IV</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 (Cat. 5.1) – 3.74 MT	Used Oil (Cat. 5.1) – 1.540 MT
		Contaminated Cotton Rags -0.200 MT
(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	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 Solid 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	217.25	109.34
Plastic Scrap	41.29	127.84
Empty Drums	0	1.00
Wooden scrap	0	0
Cable scrap	0	0
Paper Waste	0	0
Torn PP Bags & other misc. Plastic Waste	0	0
E-waste (Old computers, printers, circuit boards etc.)	3.22	3.82
Spent Batteries	1.37	0
Filter bags scrap	0	0
Cotton waste/cotton rags	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, 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 is 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 (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 CPCB server is being ensured.
- 4) Bag filters (29 Nos) have been installed at various material transfer points to control fugitive emission and 02 No. Bag House has been installed at Cement Mill & Wagon tippler.
- 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) Covered Conveyor Belts are provided for material transfer and are equipped with highly efficient Bag filters at all material transfer points.
- 11) Cemented road is constructed to avoid fugitive dust generation during the movement of vehicles.
- 12) Ground water level monitoring is being done.
- 13) Industry has constructed 11 Nos. of rainwater harvesting structures in plant & nearby Villages to recharge ground water.
- 14) A total of 15250 plants planted till March - 2024 and 107400 m<sup>2</sup> area has been covered (36.85% area) under green belt.

Yours faithfully,  
For JK Cement Works, Jharli

  
Unit Head  
J.K. Cement Works  
Jharli

Authorized signatory

**J.K.Cement Works, Jharli (Haryana)**  
**STP Treated Water Analyses Result for FY: 2023-24**

<b>S. No.</b>	<b>Parameter</b>	<b>I<sup>st</sup> Quarter</b>	<b>II<sup>nd</sup> Quarter</b>	<b>III<sup>rd</sup> Quarter</b>	<b>IV<sup>th</sup> Quarter</b>
1	Chemical Oxygen Demand (COD)(mg/l)	71.58	36	31	31
2	Bio-Chemical Oxygen Demand (BOD) ( 3 Days at 270C ) (mg/l)	25.14	8	8	8
3	Total Suspended Solids (TSS) (mg/l)	14	12.8	12.4	16.5
4	Oil & Grease (mg/l)	0.69	BDL(DL-3.0)	BDL(DL-3.0)	BDL(DL-3.0)

## J.K.Cement Works, Jharli (Haryana)

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

Month	Air Pollution Control Device	Standard Limit PM - mg/NM3	Cement Mill PM - mg/NM3
Apr-23	Bag House	30.00	4.40
May-23	Bag House	30.00	4.51
Jun-23	Bag House	30.00	4.50
Jul-23	Bag House	30.00	5.10
Aug-23	Bag House	30.00	4.60
Sep-23	Bag House	30.00	4.50
Oct-23	Bag House	30.00	4.30
Nov-23	Bag House	30.00	5.40
Dec-23	Bag House	30.00	4.10
Jan-24	Bag House	30.00	3.80
Feb-24	Bag House	30.00	3.89
Mar-24	Bag House	30.00	1.35



## J.K.Cement Works, Jharli (Haryana)

**Ambient Air Quality Monitoring Result (Monthly Average Data in µg/M3) for FY: 2023-24**

Month	Near Gate No. 1				Near Gate No. 2				Near Railway Line Side				Near Wagon Tippler			
	PM2.5	PM10	NO <sub>x</sub>	SO <sub>2</sub>	PM2.5	PM10	NO <sub>x</sub>	SO <sub>2</sub>	PM2.5	PM10	NO <sub>x</sub>	SO <sub>2</sub>	PM2.5	PM10	NO <sub>x</sub>	SO <sub>2</sub>
<b>April' 23</b>	34.0	53.5	19.9	7.3	33.3	52.9	20.3	7.4	36.9	53.7	21.0	7.8	33.3	55.0	21.5	7.4
<b>May' 23</b>	36.2	54.0	22.5	8.4	31.4	52.0	21.7	8.3	36.9	52.8	23.0	7.7	31.3	54.0	23.7	7.8
<b>June' 23</b>	37.8	58.5	22.9	9.9	36.6	57.3	22.2	9.7	36.6	57.2	23.3	9.7	38.3	57.1	23.6	9.8
<b>July' 23</b>	34.2	54.0	19.7	8.6	34.0	53.1	20.8	8.8	31.5	48.9	18.0	7.7	31.4	47.5	17.9	7.7
<b>Aug' 23</b>	34.8	53.4	21.0	9.0	35.4	54.8	21.7	9.1	31.8	49.9	18.9	8.1	31.4	48.4	18.3	8.0
<b>Sept.' 23</b>	34.9	53.4	21.7	8.9	35.2	54.4	22.6	9.2	31.6	51.0	19.4	8.1	30.6	49.0	18.2	7.9
<b>Oct.' 23</b>	45.3	66.1	24.8	10.2	45.9	66.3	25.0	10.2	42.8	61.3	22.0	8.9	43.8	62.9	22.2	9.0
<b>Nov.' 23</b>	55.2	82.2	32.0	12.2	56.1	77.3	33.3	13.1	52.8	89.0	30.4	11.2	37.9	91.5	31.6	11.9
<b>Dec.' 23</b>	37.9	58.1	29.5	10.9	39.1	58.5	29.5	11.4	35.0	51.0	26.6	9.5	38.3	57.3	28.3	10.3
<b>Jan.' 24</b>	39.9	59.3	29.3	11.0	41.1	61.9	29.9	11.5	35.6	54.8	25.8	9.2	38.8	59.4	27.0	10.0
<b>Feb.' 24</b>	39.7	60.9	26.0	10.5	40.4	61.3	26.8	10.6	36.3	56.5	23.8	8.6	41.5	62.3	24.8	9.4
<b>March' 24</b>	35.1	53.8	23.0	9.0	35.5	54.4	23.6	9.3	33.0	50.9	20.9	8.3	37.7	57.6	23.0	8.9
<b>Average</b>	<b>39.5</b>	<b>60.0</b>	<b>25.0</b>	<b>10.0</b>	<b>39.9</b>	<b>59.9</b>	<b>25.5</b>	<b>10.3</b>	<b>36.7</b>	<b>57.0</b>	<b>22.9</b>	<b>8.9</b>	<b>37.0</b>	<b>59.3</b>	<b>23.5</b>	<b>9.3</b>

## J.K.Cement Works, Jharli (Haryana)

## Ambient Noise Monitoring Result in dB(A) for FY: 2023-24

Location	Gate No -1		Gate No -2		Railway Line Side		Near Wagon Tippler	
	Day	Night	Day	Night	Day	Night	Day	Night
Apr-23	57.9	49.6	55.7	48.5	61.6	54.7	53.3	47.7
	54.5	47.3	63.5	58.1	66.3	56.1	60.6	51.9
May-23	54.8	45.5	53.6	60.5	57.5	53.6	57.4	49.7
	56.4	49.3	44.5	54.1	62.3	58.2	57.5	47.8
Jun-23	58.8	50.2	57.2	49.6	59.8	53.8	64.2	62.5
	59.6	56.8	61.3	58.3	62.5	60.6	63.2	63.8
Jul-23	61.4	54.3	60.2	53.8	58.2	52.6	59.2	58.4
	62.7	56.5	62.4	56.2	57.9	53.1	58.4	55.9
Aug-23	63.2	55.8	61.2	54.9	59.2	53.9	58.2	56.9
	64.1	58.1	63.2	58.6	59.4	54.2	59.8	56.1
Sep-23	65.8	57.9	64.9	58.2	60.1	55.2	60.4	58.1
	64.9	59.4	66.2	61.3	57.4	55.3	62.3	57.3
Oct-23	66.7	62.3	65.2	60.2	59.4	56.3	61.6	60.3
	67.5	63.4	66.7	60.7	60.8	57.4	63.7	61.9
Nov-23	68.3	65.2	66.3	63.4	61.2	59.4	61.6	58.3
	69.2	64.2	67.8	62.4	60.2	56.8	65.3	62.1
Dec-23	69.1	66.2	67.2	64.5	62.8	60.2	65.4	62.4
	70.2	65.3	68.2	64.9	61.8	55.4	64.8	61.5
Jan-24	70.8	67.3	68.2	65.8	61.9	59.6	67.2	64.9
	69.7	64.9	67.2	63.5	60.4	56.1	65.9	63.4
Feb-24	71.3	66.3	69.6	66.2	63.4	60.3	72.5	68.1
	68.1	65.7	70.6	64.3	61.6	57.5	68.7	62.6
Mar-24	70.6	65.3	68.8	64.8	61.5	59.6	67.4	64.5
	66.9	64.2	69.4	65.1	58.6	56.2	69.5	64.2
<b>Average</b>	<b>64.7</b>	<b>59.2</b>	<b>63.7</b>	<b>59.9</b>	<b>60.7</b>	<b>56.5</b>	<b>62.8</b>	<b>59.2</b>