



JK Cement Ltd.  
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Ref. No.: AL/EMD/HOPB/F 03/ 0018

Dated: 24.09.2021

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- 2020 - 2021 of J.K. Cement Limited, ALIGARH – KASIMPUR ROAD, VILLAGE - SATHA, PARGANA -MORTHAL, TESHIL KOIL, DISTRICT – ALIGARH (UP) – 202 127.

- Ref.:** 1. Air (Consent To Operate) Your Letter No. 72122/UPPCB/Aligarh/(UPPCBRO)/CTO/air/ ALIGARH/2019, dated 15.01.2020.  
2. Water (Consent To Operate) Your Letter No. 72125/UPPCB/Aligarh (UPPCBRO)/CTO/water/ALIGARH/2019, dated 15.01.2020.  
3. H 50793/ C-4/ Hazardous/ / 2019, Dated 08.07.2020.

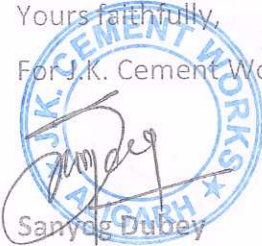
Dear Sir,

With reference to above subject matter, please find enclosed herewith Environment Statement Report of J.K. Cement Works, Aligarh (UP) (A Unit of J.K. Cement Limited) for the F. Year 2020 - 2021 for your reference and record. You will find the same in order.

Thanking you,

Yours faithfully,

For J.K. Cement Works, Aligarh



Sanyog Dubey

Unit Head



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

CC: The Regional Officer, UP Pollution Control Board, J-1, Gyan Sarovar Colony, Ramghat Road. **Aligarh** (UP), E. mail: [roaligarh@uppcb.com](mailto:roaligarh@uppcb.com)



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## ENVIRONMENTAL STATEMENT

### FORM - V

Environmental Statement for the financial year 2020 - 21, ending the 31<sup>st</sup> March' 2021

### PART-A

i. Name and address of the owner/occupier of the industry operation or process	JK Cement Works (Clinker Grinding Unit) (A Unit of JK Cement Limited) 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	21.09.2020

### PART-B

#### WATER AND RAW MATERIAL CONSUMPTION

i. WATER CONSUMPTION (in m3/day)

Process : 65.30 m3/day

Domestic : 8.80 m3/day

Name of products	Process water consumption per unit of products	
	During the previous financial year (2019-20) (KL/MT)	During the current financial year (2020-21) (KL/MT)
CEMENT	0.061	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 (2019-20)	During the current financial year (2020-21)
Clinker	Cement	0.7443	0.6102
Gypsum		0.0753	0.0818
Flyash		0.1804	0.3080

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. Domestic waste water generated from the office toilet and canteen is being discharged in soak pit through septic tank.		
(b) Air	1. Stack Emission Monitoring Report is attached as <b>Annexure- I.</b> 2. Ambient Air Monitoring Report is attached as <b>Annexure- II.</b> 3. Ambient Air Noise monitoring Report is attached as <b>Annexure- III.</b>		

PART-D

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

Hazardous waste	Total Quantity	
	During previous financial year (2019-20) (KL)	During current financial year (2020-21) (KL)
(a) From Process	Used oil (5.1) - NIL Waste oil (5.2) – NIL Cat.33.1 – NIL Cat. 33.2- NIL	Used oil (5.1) - 3.19 Waste oil (5.2) – NIL 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 (2019-20) (MT/Year)	During current financial year (2020-21) (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 (2019-20) (MT/Year)	During current financial year (2020-21) (MT/Year)
Metal Scrap	69.77	202.6
Plastic Scrap	0	34.31
Empty Drums	0	2
Wooden Scrap & Cable Scrap	37.93	24.97

**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.

## 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 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 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 manufacturing 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 high efficient bag filters for fugitive dust emission control.

- 8) Proper Housekeeping and cleaning is 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 are 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) Online water level recorder installed for online ground water level monitoring.
- 13) Industry has constructed 03 nos. of rain water harvesting structures in plant to recharge ground water.
- 14) We have planted 1631 Nos. of plant with covering 1.31 Ha. in F. Year 2020 - 2021.

Yours Faithfully

J K Cement Limited





J.K.Cement Works, Aligarh (UP)  
Cement Mill Bag House Stack Emission Report  
(F. Year- 2020 - 2021)

Month	PM (Monthly average in mg/Nm <sup>3</sup> )	PM (TPD)	PM (TPM)	PM (Kg/Tons of Cement)	% Variation from Prescribed Standard
April' 20	10.30	0.03	0.04	0.007	-19.7
May' 20	12.50	0.04	0.34	0.007	-17.5
June' 20	13.40	0.04	0.46	0.007	-16.6
July' 20	9.10	0.03	0.34	0.005	-20.9
Aug' 20	10.60	0.03	0.40	0.006	-19.4
Sept.' 20	10.00	0.03	0.39	0.005	-20
Oct.' 20	10.00	0.03	0.48	0.005	-20
Nov.' 20	9.10	0.03	0.42	0.005	-20.9
Dec.' 20	10.40	0.03	0.49	0.005	-19.6
Jan.' 21	11.80	0.04	0.59	0.006	-18.2
Feb.' 21	12.70	0.04	0.68	0.006	-17.3
March' 21	11.30	0.04	0.57	0.005	-18.7



## J.K. Cement Works, Aligarh (UP)

Ambient Air Quality Report (Monthly Average Data in µg/M<sup>3</sup>)  
(F. Year- 2020 - 2021)

Month	Plant Boundary Towards East Direction				Plant Boundary Towards West Direction				Plant Boundary Towards North Direction				Plant Boundary Towards South Direction			
	PM10	PM2.5	SO <sub>2</sub>	NO <sub>x</sub>	PM10	PM2.5	SO <sub>2</sub>	NO <sub>x</sub>	PM10	PM2.5	SO <sub>2</sub>	NO <sub>x</sub>	PM10	PM2.5	SO <sub>2</sub>	NO <sub>x</sub>
April' 20	65.2	44.7	15.3	21.6	66.7	46.8	14.7	22.8	59.6	40.5	15.3	20.2	54.0	39.2	14.8	21.7
May' 20	70.4	48.2	15.2	23.3	62.6	53.0	15.8	21.7	59.7	43.4	15.6	18.8	60.8	44.6	16.4	20.8
June' 20	64.9	46.8	15.8	18.3	73.4	53.9	16.6	20.9	63.7	45.0	15.0	19.4	59.2	38.9	15.7	18.3
July' 20	54.1	31.5	10.0	20.7	50.2	30.1	9.2	21.0	56.1	38.6	10.4	21.0	54.2	37.9	13.5	21.0
Aug' 20	55.4	35.5	14.7	21.9	50.9	31.8	12.9	20.7	55.7	32.7	12.6	21.7	57.7	36.8	14.2	21.1
Sept' 20	53.9	37.9	14.3	22.0	50.5	29.7	14.0	21.2	52.7	35.7	13.9	21.3	56.6	35.7	13.7	22.0
Oct' 20	59.0	34.7	12.6	24.5	57.5	34.7	12.6	22.4	59.4	36.7	12.4	22.4	55.2	38.5	14.6	23.6
Nov' 20	54.2	39.6	13.5	25.5	59.8	37.8	11.8	21.7	54.7	34.3	14.7	20.7	58.6	37.6	15.8	21.9
Dec' 20	56.4	37.9	14.6	23.4	57.8	35.7	14.0	21.2	56.5	37.7	13.7	21.3	55.9	36.5	14.3	22.6
Jan' 21	52.5	33.7	12.1	24.1	58.0	39.2	11.6	31.4	56.4	35.4	13.0	26.2	54.2	36.5	12.1	25.7
Feb' 21	55.5	36.3	19.5	26.7	63.5	43.7	17.2	24.1	61.1	38.3	20.1	27.5	58.5	38.2	16.3	23.2
March' 21	57.7	38.9	15.0	27.4	67.0	42.8	14.8	26.2	60.3	41.5	18.6	30.8	63.0	41.9	17.4	31.7
Average	58.3	38.8	14.4	23.3	59.8	39.9	13.8	22.9	58.0	38.3	14.6	22.6	57.3	38.5	14.9	22.8





J.K.Cement Works, Aligarh (UP)  
**Monthly Average Noise Level Monitoring Report (Leq : dB (A))**  
 (F. Year- 2020 - 2021)

MONTH	Plant Boundary Towards East Direction		Plant Boundary Towards West Direction		Plant Boundary Towards North Direction		Plant Boundary Towards South Direction	
	Day	Night	Day	Night	Day	Night	Day	Night
April' 20	51.0	45.0	53.5	44.0	51.7	44.8	51.9	43.5
May' 20	52.0	46.0	54.0	45.0	52.0	43.0	53.0	42.0
June' 20	53.0	47.0	55.0	46.0	53.0	44.0	52.0	42.0
July' 20	65.0	56.0	64.0	55.0	62.0	54.0	62.0	54.0
Aug' 20	63.0	57.0	65.0	56.0	65.0	54.0	64.0	53.0
Sept.' 20	64.0	58.0	66.0	56.0	64.0	55.0	63.0	53.0
Oct.' 20	63.0	61.0	66.0	59.0	65.0	58.0	64.0	57.0
Nov.' 20	65.0	59.0	64.0	58.0	63.0	57.0	66.0	58.0
Dec.' 20	62.0	60.0	64.0	59.0	67.0	60.0	63.0	55.0
Jan.' 21	65.0	63.0	68.0	61.0	66.0	62.0	67.0	61.0
Feb.' 21	67.0	62.0	66.0	60.0	67.0	59.0	68.0	61.0
March' 21	64.0	63.0	66.0	62.0	68.0	64.0	67.0	58.0
Average	61.2	56.4	62.6	55.1	62.0	54.6	61.7	53.1

