

Ref. No.: AL/EMD/HOPB/F 03/ 0019

Dated: 22.09.2022

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

Subject: Environmental Statement Report for the F. Year- 2021 - 2022 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) YourLetterNo.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 JK CEMENT LIMITED, ALIGARH for the FY 2021-2022 for your reference and record. We believe you will find the same in order.

Thanking you,

Yours faithfully,

For J.K. Cement Works, Aligarh




Santyog 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

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ENVIRONMENTAL STATEMENT

FORM - V

Environmental Statement for the financial year 2021 - 22, ending the 31st March' 2022

PART-A

i. Name an 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	24.09.2021

PART-B

WATER AND RAW MATERIAL CONSUMPTION

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

Process : 174 KLD Max.

Domestic : 10 KLD Max.

Name of products	Process water consumption per unit of products	
	During the previous financial year (2020-21) (KL/MT)	During the current financial year (2021-22) (KL/MT)
CEMENT	0.025	0.019

ii. **RAW MATERIAL CONSUMPTION**

Name of Raw Material	Name of products	Consumption of Raw Material per unit of output	
		During the previous financial year (2020-21-20)	During the current financial year (2021-22)
Clinker	Cement	0.6102	0.5800
Gypsum		0.0818	0.0828
Flyash		0.3080	0.3372

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	1. Stack Emission Monitoring Report is attached as Annexure- I. 2. Ambient Air Monitoring Report is attached as Annexure- II. 3. Ambient Air Noise monitoring Report is attached as Annexure- III.		

PART-D

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

Hazardous waste	Total Quantity	
	During previous financial year (2020-21) (KL)	During current financial year (2020-21) (KL)
(a) From Process	Used oil (5.1) - 3.19 Waste oil (5.2) – NIL Cat.33.1 – NIL Cat. 33.2- NIL	Used oil (5.1) – 1.000 Waste oil (5.2) – 0.100 Cat.33.1 – NIL Cat. 33.2- NIL

(b) From Pollution Control facilities	Not Applicable	Not Applicable
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* Hazardous waste generated will be sold to authorized recycler authorized by CPCB.

PART-E
SOLID WASTE

Source	Total Quantity	
	During previous financial year (2020-21) (MT/Year)	During current financial year (2021-22) (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 (2020-21) (MT/Year)	During current financial year (2021-22) (MT/Year)
Metal Scrap	202.6	49.26
Plastic Scrap	34.31	16.72
Empty Drums	2	2
Wooden Scrap & Cable Scrap	24.97	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.

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

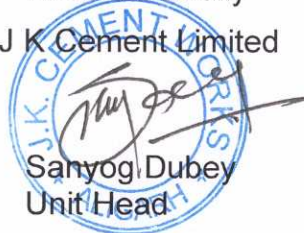
ANY OTHER PARTICULARS FOR IMPROVING THE QUALITY OF ENVIRONMENT

- 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 covered 0.54 ha with 580 nos of tree saplings in FY 2021-22 and total plantation area 1.85 ha is covered with 2211 nos of tree sapling.

Yours Faithfully

J K Cement Limited



Sanyog Dubey
Unit Head

Annexure-I

J.K.CEMENT WORKS, ALIGARH

Cement Mill Stack Emission Monitoring Results for FY: 2021-22

Month	PM (Monthly average in mg/Nm ³)	PM (TPD)	PM (TPM)	Mass Dust Load (Kg/Tons of Cement)	% variation from prescribed standard
Apr-21	12.20	0.04	0.59	0.01	-17.80
May-21	13.00	0.04	0.72	0.01	-17.00
Jun-21	11.70	0.04	0.46	0.00	-18.30
Jul-21	13.00	0.04	0.65	0.01	-17.00
Aug-21	9.50	0.03	0.50	0.005	-20.50
Sep-21	16.10	0.03	0.47	0.01	-13.90
Oct-21	15.60	0.05	0.93	0.008	-14.4
Nov-21	16.00	0.05	0.77	0.008	-14.0
Dec-21	13.80	0.04	0.81	0.007	-16.2
Jan-22	13.80	0.04	0.78	0.007	-16.2
Feb-22	13.10	0.04	0.67	0.007	-16.9
Mar-22	14.20	0.05	1.09	0.009	-15.8
Average	13.50	0.04	0.70	0.01	-16.50



J.K.CEMENT WORKS,ALIGARH

AMBIENT AIR QUALITY MONITORING DATA FOR (MONTHLY AVERAGE)

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 ₂	NO _x	PM10	PM2.5	SO ₂	NO _x	PM10	PM2.5	SO ₂	NO _x	PM10	PM2.5	SO ₂	NO _x
	(Unit: µg/m ³)															
April' 21	52.5	33.7	12.1	17.8	58.0	39.2	11.6	31.5	53.1	35.4	12.4	24.3	56.92	37.14	13.15	26.65
May' 21	55.5	36.3	19.5	26.7	63.5	43.7	17.2	24.1	61.07	38.3	16.7	23.04	58.49	38.22	16.33	23.2
June' 21	64.9	46.8	15.8	18.3	73.4	63.5	37.7	13.5	24.4	67.02	41.77	18.24	65.64	40.58	17.9	29.7
July' 21	52.5	33.7	12.1	17.8	58.0	39.2	11.6	31.5	56.1	38.6	10.4	21.0	56.92	37.14	13.15	26.65
Aug' 21	55.5	36.3	19.5	26.7	57.09	42	17.2	24.13	57.2	38.3	16.7	23.0	58.49	38.22	16.33	23.2
Sept.' 21	58.1	40.1	14.5	26.9	57.3	35.7	13.5	24.4	58.9	39.5	18.2	32.0	58.1	39.9	17.9	29.7
Oct.' 21	52.4	30.0	12.1	21.3	55.0	35.5	12.2	26.1	51.8	36.1	12.0	26.2	48.53	36.67	11.95	26.24
Nov.' 21	51.44	32.42	20.71	28.77	59.4	37.4	15.8	26.4	58.0	37.2	16.3	22.6	56.5	35.9	18.2	26.8
Dec.' 21	51.80	34.05	14.45	23.16	54.76	36.53	15.13	29.85	52.66	37.27	17.35	29.53	54.43	35.94	17.23	29.36
Jan.' 22	56.63	29.50	12.15	21.31	55.0	37.9	12.3	28.4	51.78	36.13	11.95	26.24	53.9	34.5	11.7	25.5
Feb.' 22	56.8	36.8	14.2	22.4	56.0	36.8	13.9	27.7	56.1	34.5	13.4	22.8	53.4	35.8	14.8	27.0
March' 22	53.9	35.4	14.9	23.3	53.7	36.3	15.1	29.9	54.8	36.1	17.4	29.5	56.6	35.9	17.2	29.4
Average	55.2	35.4	15.2	22.9	58.4	40.3	16.1	26.4	53.0	39.5	17.1	24.9	56.5	37.2	15.5	26.9

J.K.CEMENT WORKS, ALIGARH annexure-2

AMBIENT NOISE LEVEL MONITORING RESULT FOR THE FY: 2021-22

Unit: dB(A)

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
Apr' 21	63.0	61.0	66.0	59.0	65.0	58.0	64.0	57.0
May' 21	66.0	59.0	64.0	58.0	63.0	57.0	66.0	58.0
Jun' 21	71.6	65.2	70.6	61.9	72.8	63.2	69.1	56.7
July' 21	65.0	63.0	68.0	61.0	66.0	62.0	67.0	61.0
Aug' 21	67.0	62.0	66.0	60.0	67.0	59.0	68.0	61.0
Sept.' 21	64.0	63.0	66.0	62.0	68.0	64.0	67.0	58.0
Oct.' 21	65.4	62.3	66.4	58.8	64.5	57.0	65.0	58.2
Nov.' 21	63.6	60.1	64.3	60.2	66.0	58.0	63.0	57.0
Dec.' 21	71.6	63.2	66.8	62.7	69.1	56.7	70.8	62.4
Jan.' 22	66.1	62.3	66.4	61.8	64.5	58.1	68.2	60.4
Feb.' 22	63.6	63.1	64.4	60.2	66.2	64.8	63.8	59.4
Mar' 22	70.6	63.8	67.2	64.5	69.1	56.7	70.8	62.4
Average	66.5	62.3	66.3	60.8	66.8	59.5	66.9	59.3

