

Ref. No.: JKJharli/PC-01/925

Date : 27.09.2021

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 2020 - 2021 of J.K. Cement Limited, Village - Jharli, Teshil - Matanhail, District - Jhajjar (Haryana).

Ref.: CTO: HSPCB/Consent/: 2776718 JHACTO4348463, Dated 21.01.2018.

Dear Sir,

With reference to above subject matter, please find enclosed herewith Environment Statement Report (Form - V) of J.K. Cement Works, Jharli for the Fin. Year 2020 – 2021 for your reference and record. We trust you will find the same in order.

Thanking you,

Yours faithfully,

For JK Cement Works Jharli



Authorized Signatory

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

CC: The Regional Officer, Haryana State Pollution Control Board, SCF No. 42 & 43,
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Mail id:- hspcbrobdh@gmail.com

Corporate Office

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Jharli (Haryana) | Katni (M.P.) | Aligarh (U.P.) | Balasinor (Gujarat)



ENVIRONMENTAL STATEMENT

FORM - V

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

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	2.0 Million TPA 30 MT/ Day
iv. Year of establishment- (UNIT WISE)	Year- 2014
v. Date of last environmental statement submitted	25.09.2020

PART-B

WATER AND RAW MATERIAL CONSUMPTION

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

Process : 8.29 m3/day

Domestic : 46.86 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)
1. Cement	0.002	0.0025
2. Tile Adhesive	0.0	0.0

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	0.62	0.59
Gypsum		0.07	0.09
Flyash %		0.28	0.28
Pondash %		0.03	0.04
Silica Sand	Tile Adhesive	0	0.90
Cement		0	0.03

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 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	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 (2019-20) (KL)	During current financial year (2020-21) (KL)
(a) From Process	Used Oil (Cat. 5.1) - 8.106 KL	Used Oil (Cat. 5.1) - 4.26 KL
(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 Solid 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	0	68.25
Plastic Scrap	0	6.92
Empty Drums	0	0
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.)	0	0
Spent Batteries	0	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, 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 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.

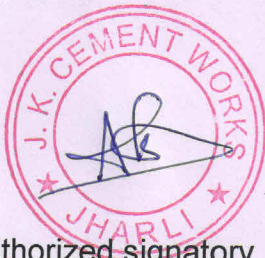
PART-I

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 (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 HSPCB & CPCB.
- 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 tripper.
- 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) Ground water level monitoring being done.
- 13) Industry has constructed 09 Nos. of rain water harvesting structures in plant & nearby Villages to recharge ground water.
- 14) Total 9000 plants planted till June - 2021 and 93093 m² area covered under green belt.

Yours faithfully,
For JK Cement Works, Jharli



Authorized signatory

J.K.Cement Works, Jharli (Haryana)
Sewage STP Treated Water Analyses Report (Quarterly)
(F. Year- 2020 - 2021)

S. No.	Parameter	I st Quarter	II nd Quarter	III rd Quarter	IV th Quarter
1	Bio-Chemical Oxygen Demand (BOD) (3 Days at 270C) (mg/l)	24.00	22.00	20.65	19.30
2	Chemical Oxygen Demand (COD)(mg/l)	81.50	78.00	76.20	74.00
3	Total Suspended Solids (TSS) (mg/l)	31.00	28.00	25.00	24.00
4	Oil & Grease (mg/l)	0.65	0.56	0.49	0.47



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

Month	PM (Monthly average in mg/Nm ³)	PM (TPD)	PM (TPM)	PM (Kg/Tons of Cement)	% Variation from Prescribed Standard
April' 20	Covid-19 Lock Down				
May' 20					
June' 20	26.50	0.02	0.54	0.005	-3.5
July' 20	23.20	0.02	0.39	0.004	-6.8
Aug' 20	20.42	0.02	0.36	0.003	-9.58
Sept.' 20	23.14	0.02	0.52	0.004	-6.86
Oct.' 20	24.50	0.02	0.56	0.004	-5.5
Nov.' 20	25.84	0.02	0.45	0.004	-4.16
Dec.' 20	23.80	0.02	0.49	0.004	-6.2
Jan.' 21	21.88	0.02	0.24	0.003	-8.12
Feb.' 21	24.82	0.02	0.38	0.003	-5.18
March' 21	25.16	0.02	0.45	0.003	-4.84



J.K.Cement Works, Jharli (Haryana)

Ambient Air Quality Report (Monthly Average Data in $\mu\text{g}/\text{M}^3$)
(F. Year- 2020 - 2021)

Month	Near Gate No. 1				Near Gate No. 2				Near Railway Line Side				Near Wagon Trippler			
	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
April' 20																
May' 20																
June' 20	65.2	44.7	9.2	23.2	66.7	46.8	9.0	20.9	59.6	40.5	9.4	24.2	54.0	39.2	9.4	22.7
July' 20	55.4	31.5	8.9	20.7	50.9	30.1	8.7	20.2	55.7	38.6	8.8	20.6	57.7	37.9	9.2	21.6
Aug' 20	53.9	35.5	8.4	17.8	50.5	31.8	8.2	18.7	52.7	32.7	8.8	19.8	56.6	36.8	8.7	19.0
Sept.' 20	54.1	37.9	8.8	19.1	50.2	29.7	9.0	21.2	56.1	35.7	8.7	20.0	54.2	35.7	9.7	22.9
Oct.' 20	70.4	48.2	9.0	21.1	62.6	53.0	9.1	22.5	59.7	43.4	9.3	22.3	60.8	44.6	8.6	19.3
Nov.' 20	64.9	37.9	8.9	20.1	65.4	29.7	9.0	20.9	63.7	35.7	8.8	19.5	59.2	35.7	8.6	17.7
Dec.' 20	59.0	34.7	8.9	18.7	57.5	34.7	8.9	19.3	59.4	36.7	8.4	17.3	55.2	38.5	8.3	16.1
Jan.' 21	54.2	39.6	8.9	17.9	59.8	37.8	8.9	18.9	54.7	34.3	8.4	16.1	58.6	37.6	8.4	16.1
Feb.' 21	56.4	37.9	9.0	18.1	57.8	35.7	9.1	18.8	56.5	37.7	8.5	16.0	55.9	36.5	8.2	15.1
March' 21	52.5	33.7	9.1	18.6	58.0	39.2	9.0	18.5	56.4	35.4	8.6	16.2	54.2	36.5	8.2	15.6
Average	58.6	38.2	8.9	19.5	57.9	36.9	8.9	20.0	57.5	37.1	8.8	19.2	56.6	37.9	8.7	18.6

Covid-19 LockDown



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

MONTH	Near Gate No. 1		Near Gate No. 2		Near Railway Line Side		Near Wagon Trippler	
	Day	Night	Day	Night	Day	Night	Day	Night
April' 20	Covid -19 Lockdown							
May' 20								
June' 20	68.2	57.3	64.4	58.3	61.7	49.9	70.4	52.1
July' 20	69.3	56.1	66.2	53.6	68.1	59.4	69.6	60.5
Aug' 20	68.3	55.1	65.3	56.6	63.4	55.1	62.1	53.5
Sept.' 20	69.1	51.6	64.5	54.2	63.1	47.5	71.3	61.7
Oct.' 20	70.3	56.1	66.2	53.6	68.1	59.4	62.1	53.5
Nov.' 20	68.4	55.3	61.3	55.1	63.4	57.1	59.2	49.6
Dec.' 20	58.1	51.3	62.4	45.2	65.8	55.6	60.4	55.6
Jan.' 21	62.4	49.5	64.1	45.2	60.2	49.3	61.4	50.7
Feb.' 21	63.5	48.2	67.3	53.1	68.3	53.4	59.2	48.5
March' 21	62.1	46.5	63.4	50.6	65.1	52.2	63.5	49.1
Average	66.0	52.7	64.5	52.6	64.7	53.9	63.9	53.5

