



Regd.AD.

JK Cement LTD.

CIN : L17229UP1994PLC017199

ISO 9001:2008, ISO 14001:2004 & OHSAS 18001 : 2007 CERTIFIED COMPANY

Phone : +91-1477-220098, 220087
Fax : +91-1477-220027, 220049
E-mail : jkc.nbh@jkcement.com
Web : www.jkcement.com

J.K. Cement Works
Kailash Nagar - 312617, Nimbahera
Distt. Chittorgarh (Raj.) INDIA

Ref.No.:NBH-PC-13/ 2747

Date: 26.09.2018

To,

✓ **The Member Secretary,**
Rajasthan State Pollution Control Board 4,
Industrial Area, Jhalana Dungri
JAIPUR – 302004 (Raj)

SUBJECT: **Environmental Statement for the year 2017 – 2018 (02 Copies)**

Dear Sir,

Kindly find herewith enclosed **Environment Statement Report of J.K. Cement Works Nimbahera** for the **year 2017 - 2018** for your reference and record. We trust you will find the same in order.

Thanking You.

Yours Faithfully
For J.K. Cement Works, Nimbahera


S.K. Acharya
Asth. V.P. (E & I)

Encl. : a / a

Copy to -

The Regional Officer, Rajasthan State Pollution Control Board, Near FCI Godown,
Chandaria, Distt.- CHITTORGARH (RAJ)

Corporate & Registered Office : Kamla Tower, Kanpur-208001, (U. P.) INDIA
Phone : +91-512-2371478 to 81 **Fax :** 2399854 **E-mail :** ho.grey@jkcement.com



J. K. Cement Works, Nimbahera
J. K. Cement Works Mangrol
J. K. Cement Works, Gotan
J. K. Cement Works, Jharli

J. K. Power, Bamania
J. K. Cement Works, Muddapur
J. K. White Cement Works, Gotan
J. K. White, Katni



Government of India
Ministry of Environment and Forest

" FORM - V "

(See rule 14)

ENVIRONMENTAL STATEMENT FOR THE FINANCIAL YEAR ENDING THE 31STMARCH 2018

PART - A

- (I) NAME & ADDRESS OF THE
OWNER / OCCUPIER OF THE INDUSTRY
OPERATION OR PROCESS
(AS PER FACTORY ACT)
- S. K. Rathore
Unit Head
J.K. Cement Works,
Kailash Nagar: 312617
NIMBAHERA, Chittorgarh (Raj.)
- (II) INDUSTRY CATEGORY
PRIMARY :- (STC CODE)
SECONDARY :- (SIC CODE)
- Primary
- (III) CEMENT PRODUCTION CAPACITY :-
(DESIGNED / INSTALLED CAPACITY)
- 3.6 MMTPA
- (IV) YEAR OF ESTABLISHMENT :- UNITS
- | UNIT I | UNIT II | UNIT III |
|--------|---------|--|
| 1974 | 1978 | 1982 &
1988
Upgraded
in 98-99 |
- (V) DATE OF LAST ENVIRONMENTAL
STATEMENT SUBMITTED
- 16th September 2017.

PART - B

WATER & RAW MATERIAL CONSUMPTION

(1) **WATER CONSUMPTION M³/day**

Process : NIL
Cooling : 2160 M³/day
Domestic : 385 M³/day

NAME OF THE PRODUCTS	PROCESS WATER CONSUMPTION PER PRODUCT OUTPUT	
	PREVIOUS FINANCIAL YEAR	CURRENT FINANCIAL YEAR

(1)

(2)

CEMENT

Being a dry process cement plant, process water consumption is nil.

(II) RAW MATERIAL CONSUMPTION

NAME OF RAW MATERIAL USED

NAME OF PRODUCTS

CONSUMPTION OF RAW MATERIAL PER UNIT OF OUTPUT

DURING THE PREVIOUS FINANCIAL YEAR

DURING THE CURRENT FINANCIAL YEAR

Limestone

CEMENT

1.093

1.019

Laterite

0.092

0.105

Gypsum

0.068

0.080

Flyash

0.149

0.139

* Industry may use codes if disclosing details of raw material would violate contractual obligations
Otherwise all industries have to name the raw materials used.

PART - C

POLLUTION DISCHARGE TO ENVIRONMENT / UNIT OF OUTPUT (Parameters as specified in the consent issued)

(1)	Pollutants	Quantity of Pollutants discharged (Mass / day)	Concentrations of Pollutants in discharged (Mass / volume)	Percentage of variation from prescribed standards with reasons
(a)	Water :			
(i)	colonial :	370 KL/day (treated Sewage water analysis report is enclosed in Table No. VIII)		
(ii)	Industrial :	NIL		
(b)	Air :	(See Table No.IV, V,VI & VII in report)		

PART - D

(As specified under Hazardous Waste & Other waste Management rules-2016)

HAZARDOUS WASTE

TOTAL QUANTITY (KGS.)

		DURING THE PREVIOUS FINANCIAL YEAR	DURING THE CURRENT FINANCIAL YEAR
(a)	From Process(DC & Plant Machinery)	29.0 K.L.	11.8 K.L.
(b)	From Pollution Control facilities	N. A.	N. A.

PART - E
SOLID WASTES

		TOTAL QUANTITY	
		DURING THE PREVIOUS FINANCIAL YEAR	DURING THE CURRENT FINANCIAL YEAR
(a)	From Process	N. A.	N. A.
(b)	From Pollution control facilities	155837.963 MT	205622.117 MT
(c)	(i) Qty. recycled or reused with in the unit	155837.963 MT	205622.117 MT
	(ii) Sold	NIL	NIL
	(iii) Disposed	NIL	NIL

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.

- * Soild waste generated from PCE (i. e. from ESP' s, Bag filters & dust cyclones) in form of bottom dust is completely recycled .
- * Hazardous waste is generated in the form of used / spent oil, wastes/ residues containing oil which is stored in 210 ltr. capacity drums at safe side and sale of to approved party from Moef / Rajasthan Pollution Control Board.

PART - G

IMPACT OF THE POLLUTION ABATEMENT MEASURES TAKEN ON CONSERVATION OF NATURAL RESOURCES AND ON THE COST OF PRODUCTION.

- * By recycling total solid waste generated from pollution control facilities, the industry has conserve natural raw materials.

PART - H

ADDITIONAL MEASURES / INVESTMENT PROPOSALS FOR ENVIRONMENTAL PROTECTION INCLUDING ABATEMENT POLLUTION, PREVENTION OF POLLUTION.

N. A.

PART - I

ANY OTHER PARTICULARS FOR IMPROVING THE QUALITY OF ENVIRONMENT.

- * Industry has planted 5080 plants in and around factory area during the period under review.



S.K. ACHARYA
A.V.P. (E&I)
J.K. CEMENT WORKS
NIMBAHERA
Dist. CHITTORGARH (Raj.)

For J.K.CEMENT WORKS
NIMBAHERA

J.K.CEMENT WORKS, NIMBAHERA
STACK EMISSION CONCENTRATION
(MONTHLY AVERAGE IN mg/NM³)
FY 2017-18
TABLE - IV

MONTH	L.S.C.	KILN1M	KILN2	KILN3	P.C.	F.C.	CL1	CL2	CL3	CL4	CM1	CM2	CM3	CM4	P1	P2	P3	P4	P5	P6
Apr-17	24.5	UM	UM	15.6	18.3	42.8	UM	UM	16.6	13.4	19.0	14.5	16.0	17.9	20.2	22.3	26.4	21.7	27.8	18.1
May-17	21.7	UM	UM	10.7	14.4	40.6	UM	UM	17.4	15.7	UM	17.0	19.6	18.2	18.9	20.7	19.7	24.6	23.4	21.6
Jun-17	23.4	10.3	UM	12.6	15.2	26.2	20.1	UM	14.8	17.3	21.4	20.2	18.8	21.6	17.4	24.4	23.2	19.6	22.2	15.5
Jul-17	26.3	12.4	UM	13.2	16.4	24.3	17.6	UM	18.9	14.7	20.4	22.6	21.4	19.3	16.0	27.6	22.1	26.5	24.3	20.2
Aug-17	25.4	9.7	10.2	11.4	13.6	28.0	15.4	17.2	12.8	16.4	13.4	18.2	14.6	17.6	27.4	28.9	24.7	22.7	19.6	25.6
Sep-17	20.3	13.5	12.6	10.2	14.9	25.3	21.3	19.8	15.6	11.8	22.3	24.6	20.8	16.3	29.2	25.6	28.4	17.2	16.4	22.3
Oct-17	22.5	11.9	9.6	14.3	17.4	33.7	23.0	16.2	13.5	10.8	18.6	26.3	24.1	20.3	19.7	23.2	17.8	28.6	21.7	16.8
Nov-17	18.9	14.4	UM	12.8	15.8	36.2	19.6	UM	10.7	9.2	17.4	21.5	17.3	15.2	24.4	21.7	23.6	27.0	18.8	28.2
Dec-17	21.6	UM	UM	15.4	18.6	39.2	UM	UM	12.2	13.7	20.8	18.9	23.3	19.7	14.2	11.8	15.6	20.2	12.2	17.4
Jan-18	23.7	12.1	13.6	16.0	19.4	41.5	17.2	20.4	15.8	11.9	21.6	16.8	20.6	24.3	18.3	13.9	19.8	22.4	14.8	20.4
Feb-18	17.5	10.2	11.8	13.9	16.3	37.7	15.8	17.9	13.6	12.3	16.4	19.3	13.8	12.1	13.9	12.7	10.4	9.8	11.2	18.4
Mar-18	15.6	8.4	12.2	11.7	13.2	40.4	19.3	15.1	10.4	9.8	12.7	14.6	11.8	16.2	15.2	10.7	11.1	13.8	9.5	12.4

L.S.C.= LIME STONE CRUSHER, STACK, M = MAIN, A = ADDITIONAL, P.C.= PRE-CALCINER, F.C.= FOLAX COOLER, CL= COAL MILL, CM = CEMENT MILL, P = PACKER.

J.K.CEMENT WORKS, NIMBAHERA
STACK EMISSION CONCENTRATION
(% variation from prescribed standard)
FY 2017-18
TABLE - V

MONTH	L.S.C.	KILN1M	KILN2	KILN3	P.C.	F.C.	CL1	CL2	CL3	CL4	CM1	CM2	CM3	CM4	P1	P2	P3	P4	P5	P6
Apr-17	-75.50	UM	UM	-84.43	-81.73	-57.23	UM	UM	-83.40	-86.63	-81.05	-85.53	-83.98	-82.10	-79.80	-77.70	-73.60	-78.30	-72.20	-81.90
May-17	-78.33	UM	UM	-89.33	-85.60	-59.38	UM	UM	-82.65	-84.35	UM	-83.00	-80.40	-81.80	-81.10	-79.30	-80.30	-75.40	-76.60	-78.40
Jun-17	-76.63	-89.75	UM	-87.38	-84.78	-73.85	-79.95	UM	-85.18	-82.73	-78.60	-79.80	-81.23	-78.43	-82.60	-75.60	-76.80	-80.40	-77.80	-84.50
Jul-17	-73.73	-87.63	UM	-86.83	-83.58	-75.68	-82.38	UM	-81.15	-85.35	-79.60	-77.40	-78.58	-80.70	-84.00	-72.40	-77.90	-73.50	-75.70	-79.80
Aug-17	-74.63	-90.33	-89.85	-88.60	-86.45	-72.00	-84.60	-82.85	-87.20	-83.65	-86.57	-81.78	-85.45	-82.43	-72.60	-71.10	-75.30	-77.30	-80.40	-74.40
Sep-17	-79.70	-86.50	-87.38	-89.83	-85.15	-74.73	-78.75	-80.18	-84.38	-88.20	-77.70	-75.40	-79.23	-83.75	-70.80	-74.40	-71.60	-82.80	-83.60	-77.70
Oct-17	-77.50	-88.08	-90.40	-85.68	-82.65	-66.33	-76.98	-83.85	-86.53	-89.23	-81.43	-73.70	-75.90	-79.73	-80.30	-76.80	-82.20	-71.40	-78.30	-83.20
Nov-17	-81.13	-85.60	UM	-87.23	-84.18	-63.78	-80.45	UM	-89.30	-90.83	-82.60	-78.50	-82.70	-84.80	-75.60	-78.30	-76.40	-73.00	-81.20	-71.80
Dec-17	-78.43	UM	UM	-84.58	-81.43	-60.80	UM	UM	-87.80	-86.28	-79.20	-81.10	-76.68	-80.28	-85.80	-88.20	-84.40	-79.80	-87.80	-82.60
Jan-18	-76.33	-87.95	-86.38	-83.98	-80.58	-58.50	-82.85	-79.65	-84.20	-88.08	-78.38	-83.20	-79.45	-75.68	-81.70	-86.10	-80.20	-77.60	-85.20	-79.60
Feb-18	-82.55	-89.80	-88.20	-86.15	-83.70	-62.35	-84.20	-82.08	-86.38	-87.68	-83.58	-80.73	-86.20	-87.93	-86.10	-87.30	-89.60	-90.20	-88.80	-81.60
Mar-18	-84.45	-91.63	-87.83	-88.33	-86.80	-59.58	-80.70	-84.93	-89.58	-90.18	-87.35	-85.38	-88.20	-83.78	-84.80	-89.30	-88.90	-86.20	-90.50	-87.60

L.S.C.= LIME STONE CRUSHER, STACK, M = MAIN, A = ADDITIONAL, P.C.= PRE-CALCINER, F.C.= FOLAX COOLER, CL= COAL MILL, CM = CEMENT MILL, P = PACKER.

J.K.CEMENT WORKS, NIMBAHERA
STACK EMISSION GENERATED
(MONTHLY AVERAGE IN TONNES/DAY)
FY 2017-18
TABLE - VI

MONTH	L.S.C.	KILN1	KILN2	KILN3	P.C.	F.C.	CL1	CL2	CL3	CL4	CM1	CM2	CM3	CM4	P1	P2	P3	P4	P5	P6
Apr-17	0.007	UM	UM	0.070	0.140	0.268	UM	UM	0.006	0.013	0.005	0.007	0.009	0.010	0	0.01	0.01	0	0.01	0
May-17	0.006	UM	UM	0.045	0.113	0.245	UM	UM	0.007	0.015	UM	0.008	0.011	0.010	0.004	0.005	0.004	0.005	0.005	0.004
Jun-17	0.006	0.028	UM	0.055	0.118	0.148	0.006	UM	0.005	0.017	0.006	0.010	0.011	0.012	0.004	0.006	0.005	0.004	0.005	0.003
Jul-17	0.007	0.037	UM	0.063	0.135	0.150	0.005	UM	0.007	0.015	0.005	0.011	0.012	0.010	0.003	0.006	0.005	0.006	0.005	0.004
Aug-17	0.007	0.031	0.050	0.055	0.105	0.175	0.005	0.008	0.005	0.017	0.003	0.009	0.008	0.009	0.006	0.007	0.006	0.005	0.004	0.005
Sep-17	0.006	0.044	0.060	0.050	0.115	0.148	0.006	0.009	0.006	0.013	0.006	0.012	0.011	0.008	0.007	0.006	0.007	0.004	0.003	0.004
Oct-17	0.006	0.038	0.045	0.065	0.138	0.200	0.007	0.007	0.005	0.012	0.005	0.011	0.013	0.011	0.004	0.006	0.004	0.006	0.005	0.004
Nov-17	0.005	0.046	UM	0.058	0.125	0.203	0.006	UM	0.004	0.010	0.004	0.010	0.009	0.008	0.005	0.005	0.005	0.006	0.004	0.006
Dec-17	0.005	UM	UM	0.065	0.138	0.213	UM	UM	0.005	0.015	0.005	0.009	0.012	0.010	0.003	0.003	0.004	0.004	0.003	0.004
Jan-18	0.006	0.037	0.065	0.073	0.145	0.228	0.005	0.008	0.006	0.013	0.005	0.008	0.011	0.013	0.004	0.003	0.005	0.004	0.003	0.004
Feb-18	0.005	0.030	0.053	0.063	0.123	0.223	0.005	0.007	0.005	0.013	0.004	0.009	0.007	0.006	0.003	0.003	0.002	0.002	0.002	0.004
Mar-18	0.004	0.025	0.050	0.053	0.103	0.250	0.006	0.006	0.004	0.010	0.003	0.007	0.006	0.008	0.003	0.003	0.002	0.003	0.002	0.002

L.S.C.= LIME STONE CRUSHER, STACK, M = MAIN, A = ADDITIONAL, P.C.= PRE-CALCINER, F.C.= FOLAX COOLER, CL= COAL MILL, CM = CEMENT MILL, P = PACKER.

J.K.CEMENT WORKS, NIMBAHERA
AMBIENT AIR QUALITY MONITORING DATA FOR SPM
(MONTHLY AVERAGE $\mu\text{g}/\text{M}^3$)
FY 2017-18
TABLE - VII

	NEAR	NEAR	NEAR N.J.K.	NEAR
MONTH	MAIN SECURITY	STACKER TRANSFER	FACTORY GATE	MINE GATE
	GATE	POINT		
Apr-17	345.0	404.0	362.5	382.8
May-17	352.0	407.0	378.0	389.5
Jun-17	318.3	371.5	353.2	344.2
Jul-17	278.3	320.5	306.0	295.5
Aug-17	305.7	347.8	329.8	333.5
Sep-17	315.0	365.0	330.0	349.5
Oct-17	343.0	382.2	358.2	375.3
Nov-17	376.5	322.0	351.5	350.0
Dec-17	371.5	320.3	352.0	341.7
Jan-18	389.5	334.8	354.0	373.7
Feb-18	382.5	331.0	367.3	344.0
Mar-18	389.2	337.8	353.3	384.2

J.K.CEMENT WORKS, NIMBAHERA
ANALYSIS OF SEWAGE WATER (STP OUTLET)
(2017-18 Yearly Average)
TABLE - VIII

S.No.	PARAMETER	RESULT
1	pH	7.5
2	Total Suspended Solids (TSS)	40.1
3	Chemical Oxygen Demand (COD)	43.8
4	Bio-Chemical Oxygen Demand (BOD)	8.8
	(3 Days at 27 ⁰ C)	
5	Oil & Grease	2.0
6	Ammononical Nitrogen (as N)	3.8
7	Sulphide (as S)	0.8
8	Chlorides	66.3
9	Total Kjeldahl Nitrogen (as N)	3.9
10	Residual Chlorine	NIL