Regd.AD.

JK Cement LTD.

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

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

CIN : L17229UP1994PLC017199
ISO 9001:2008, ISO 14001:2004 & OHSAS 18001 : 2007 CERTIFIED COMPANY

Ref. No.: MGR-PC -13/ 2393

Date: 27.09.2018

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 Mangrol Line-1** 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, Mangrol

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

Encl. : a / a

Copy to -

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

Government of India

Ministry of Environment and Forest

" FORM - V "

(See rule 14)

ENVIRONMENTAL STATEMENT FOR THE FINANCIAL YEAR ENDING THE 31ST MARCH 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, Mangrol, Chittorgarh (Raj.) (line-1)
(II)	INDUSTRY CATEGORY PRIMARY :- (STC CODE) SECONDARY :- (SIC CODE)	Primary
(III)	CEMENT PRODUCTION CAPACITY :- (DESIGNED / INSTALLED CAPACITY)	0.95 MMTPA
(IV)	YEAR OF ESTABLISHMENT :-	1995 Started Grinding & packing Unit Plant Commissioned in Dec-2001
(V)	DATE OF LAST ENVIRONMENTAL STATEMENT SUBMITTED	16th September 2017.

PART - B

WATER & RAW MATERIAL CONSUMPTION

(I) **WATER CONSUMPTION M^3/day**

Process : NIL

Cooling : 140 M^3/day

Domestic : 35 M^3/day

NAME OF THE PRODUCTS	PROCESS WATER CONSUPTION 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	1.2958	1.000
Laterite		0.1187	0.132
Gypsum		0.0587	0.054
Flyash		0.0000	0.158

* 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 :	10 KL / day (treated Sewage water analysis report 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 (DG & Plant Machinery)	10.00K.L.	16.38 K.L. (including unit-2)
(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	47738.473 MT	243774.114 MT
(c)	(i) Qty. recycled or reused with in the unit	47738.473 MT	243774.114 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 5000 plants (including unit-2) in and around factory area during the period under review.

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

For J.K.CEMENT WORKS
MANGROL

J.K.Cement Works,Mangrol (Line-1)

DUST CONCENTRATION FROM STACK

(MONTHLY AVERAGE IN mg/NM^3)

FY 2017-18

TABLE - IV

Month	Kiln Bag house Stack	Cooler ESP Stack	Coal Mill B.F. Stack	Cement Mill -1 B.F. Stack	Cement Mill -2 B.F. Stack
Apr-17	UM	UM	UM	Stop	42.3
May-17	14.2	44.3	13.7	Stop	40.2
Jun-17	12.6	24.3	15.4	Stop	26.3
Jul-17	13.6	22.1	18.5	Stop	25.3
Aug-17	15.4	35.2	14.4	Stop	23.7
Sep-17	17.2	33.2	12.7	Stop	21.6
Oct-17	16.2	31.4	17.4	Stop	24.5
Nov-17	11.7	34.0	15.8	Stop	22.4
Dec-17	14.5	40.3	11.8	Stop	15.6
Jan-18	18.4	38.7	13.6	Stop	11.5
Feb-18	13.5	42.4	10.5	Stop	9.7
Mar-18	11.4	39.8	12.3	Stop	10.8

J.K.CEMENT WORKS, MANGROL (Line-1)
STACK EMISSION CONCENTRATION
(% variation from prescribed standard)
FY 2017-18
TABLE - V

Month	Kiln Bag house Stack	Cooler ESP Stack	Coal Mill B.F. Stack	Cement Mill -1 B.F. Stack	Cement Mill -2 B.F. Stack
Apr-17	UM	UM	UM	Stop	-57.7
May-17	-85.9	-55.8	-86.3	Stop	-59.8
Jun-17	-87.5	-75.7	-84.7	Stop	-73.7
Jul-17	-86.4	-77.9	-81.5	Stop	-74.7
Aug-17	-84.6	-64.8	-85.6	Stop	-76.3
Sep-17	-82.8	-66.9	-87.3	Stop	-78.4
Oct-17	-83.8	-68.6	-82.6	Stop	-75.5
Nov-17	-88.3	-66.0	-84.2	Stop	-77.6
Dec-17	-85.5	-59.7	-88.2	Stop	-84.4
Jan-18	-81.7	-61.4	-86.4	Stop	-88.5
Feb-18	-86.6	-57.6	-89.5	Stop	-90.3
Mar-18	-88.6	-60.2	-87.7	Stop	-89.2

J.K.Cement Works,Mangrol (Line-1)

DUST GENERATION FROM STACK

(MONTHLY AVERAGE IN TONNES / DAY)

FY 2017-18

TABLE - VI

Month	Kiln Bag house Stack	Cooler ESP Stack	Coal Mill B.F. Stack	Cement Mill -1 B.F. Stack	Cement Mill -2 B.F. Stack
Apr-17	UM	UM	UM	Stop	0.014
May-17	0.074	0.142	0.013	Stop	0.014
Jun-17	0.064	0.080	0.014	Stop	0.009
Jul-17	0.067	0.073	0.017	Stop	0.009
Aug-17	0.076	0.109	0.013	Stop	0.008
Sep-17	0.079	0.100	0.011	Stop	0.007
Oct-17	0.076	0.101	0.016	Stop	0.008
Nov-17	0.056	0.108	0.014	Stop	0.008
Dec-17	0.066	0.127	0.011	Stop	0.003
Jan-18	0.089	0.126	0.012	Stop	0.003
Feb-18	0.064	0.136	0.010	Stop	0.003
Mar-18	0.055	0.144	0.011	Stop	0.003

J.K.Cement Works,Mangrol (Line-1 & 2)

AMBIENT AIR QUALITY MONITORING DATA FOR SPM

(MONTHLY AVERAGE IN µg/M^3)

FY 2017-18

TABLE - VII

Month	Location			
	NEAR TIME OFFICE	NEAR THERMAL POWER PLANT	NEAR RAW MATERIAL GATE	NEAR PACKING PLANT GATE
Apr-17	346.3	388.0	355.0	323.5
May-17	379.0	397.5	366.8	349.8
Jun-17	347.2	377.7	350.2	350.3
Jul-17	295.8	315.2	295.8	275.0
Aug-17	296.3	342.2	312.3	282.0
Sep-17	328.3	379.3	355.5	311.7
Oct-17	335.8	384.0	359.0	319.0
Nov-17	328.5	345.0	394.2	358.5
Dec-17	343.0	381.5	399.7	369.3
Jan-18	319.3	352.5	377.0	350.3
Feb-18	334.7	350.8	392.7	373.8
Mar-18	335.8	363.3	420.3	383.3

J.K.CEMENT WORKS, Mangrol(Line-1 & 2)

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)	**9.6**
3	Chemical Oxygen Demand (COD)	**79.5**
4	Bio-Chemical Oxygen Demand (BOD) (3 Days at 27^0C)	**14.6**
5	Oil & Grease	**5.5**
6	Ammononical Nitrogen (as N)	**<0.1**
7	Sulphide (as S)	**<0.1**
8	Chlorides	**108.7**
9	Total Residual Chlorine	**<0.1**