

Reg. A.D.
JK Cement LTD.

CIN : L17229UP1994PLC017199

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

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

Ref. No.: MGR-PC -13/ 2247

Date: 21.09.2017

To,
● **The Director,**
Ministry of Environment and Forests,
Regional office (Central Region),
Kendriya Bhawan, 5th Floor, Sector 'H',
ALIGANJ, LUCKNOW- 226020 (U.P.)

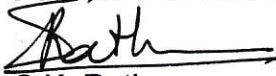
SUBJECT: Environmental Statement for the year 2016-2017

Dear Sir,

Kindly find herewith enclosed **Environment Statement Report of J.K. Cement Works Mangrol Line-1** for the **year 2016-2017** 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. Rathore
Unit Head

Encl. : a / a

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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
2017**

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 | September 2016. |

PART - B

WATER & RAW MATERIAL CONSUMPTION

- (1) **WATER CONSUMPTION M³/day**
- | | | |
|----------|---|-------------------------|
| Process | : | NIL |
| Cooling | : | 140 M ³ /day |
| Domestic | : | 35 M ³ /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	1.2861	1.2958
Laterite		0.1096	0.1187
Gypsum		0.0511	0.0587
Flyash		0.0084	0.0000

* 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 Management, Handling and Trans Boundary Movement rules-2008)

HAZARDOUS WASTE		TOTAL QUANTITY (KGS.)	
		DURING THE PREVIOUS FINANCIAL YEAR	DURING THE CURRENT FINANCIAL YEAR
(a)	From Process (DG & Plant Machinery)	17.94K.L.	10.00 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	65514.653 MT	47738.473 MT
(c) (i) Qty. recycled or reused with in the unit	65514.653 MT	47738.473 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 7500 plants (including unit-2) in and around factory area during the period under review.



For J.K.CEMENT WORKS
MANGROL

J.K.CEMENT WORKS, Mangrol
ANALYSIS OF SEWAGE WATER (STP OUTLET)
(2016-17 Yearly Average)
TABLE - VIII

S.No.	PARAMETER	RESULT
1	pH	7.6
2	Total Suspended Solids (TSS)	13.8
3	Chemical Oxygen Demand (COD)	68.4
4	Bio-Chemical Oxygen Demand (BOD)	14.7
	(3 Days at 27 ⁰ C)	
5	Oil & Grease	8.4
6	Ammononical Nitrogen (as N)	1.1
7	Sulphide (as S)	<0.1
8	Chlorides	83.7
9	Total Residual Chlorine	<0.1

J.K.Cement Works,Mangrol (Line-1)
DUST CONCENTRATION FROM STACK
(MONTHLY AVERAGE IN mg/NM³)

FY 2016-17

TABLE - IV

Month	Kiln ESP Stack	Cooler ESP Stack	Coal Mill B.F. Stack	Cement Mill -1 B.F. Stack	Cement Mill -2 ESP Stack
Apr-16	78.0	45.0	17.0	UM	39.0
May-16	UM	UM	UM	UM	43.0
Jun-16	11.0	42.0	13.0	UM	40.0
Jul-16	13.0	26.0	16.0	UM	35.0
Aug-16	15.2	24.3	14.5	UM	41.6
Sep-16	14.4	22.3	12.6	UM	44.3
Oct-16	12.6	27.4	17.4	UM	42.1
Nov-16	10.7	25.5	15.4	UM	46.7
Dec-16	16.2	23.7	16.6	UM	43.1
Jan-17	13.8	21.6	14.2	UM	36.6
Feb-17	17.0	26.4	18.0	UM	48.0
Mar-17	15.6	40.5	19.2	UM	45.0

J.K.CEMENT WORKS, MANGROL (Line-1)
STACK EMISSION CONCENTRATION

(% variation from prescribed standard)

FY 2016-17

TABLE - V

Month	Kiln ESP Stack	Cooler ESP Stack	Coal Mill B.F. Stack	Cement Mill -1 B.F. Stack	Cement Mill -2 ESP Stack
Apr-16	-22.0	-55.0	-83.0	UM	-61.0
May-16	UM	UM	UM	UM	-57.0
Jun-16	-89.0	-58.0	-87.0	UM	-60.1
Jul-16	-87.1	-74.0	-84.0	UM	-65.1
Aug-16	-84.8	-75.7	-85.6	UM	-58.4
Sep-16	-85.6	-77.7	-87.5	UM	-55.7
Oct-16	-87.4	-72.6	-82.6	UM	-57.9
Nov-16	-89.4	-74.6	-84.7	UM	-53.4
Dec-16	-83.8	-76.4	-83.4	UM	-56.9
Jan-17	-86.2	-78.4	-85.8	UM	-63.5
Feb-17	-83.0	-73.6	-82.0	UM	-52.0
Mar-17	-84.4	-59.5	-80.8	UM	-55.0

J.K.Cement Works,Mangrol (Line-1)
DUST GENERATION FROM STACK
(MONTHLY AVERAGE IN TONNES / DAY)

FY 2016-17

TABLE - VI

Month	Kiln ESP Stack	Cooler ESP Stack	Coal Mill B.F. Stack	Cement Mill -1 B.F. Stack	Cement Mill -2 ESP Stack
Apr-16	0.465	0.151	0.016	UM	0.012
May-16	UM	UM	UM	UM	0.013
Jun-16	0.060	0.144	0.012	UM	0.013
Jul-16	0.067	0.087	0.015	UM	0.011
Aug-16	0.080	0.084	0.013	UM	0.014
Sep-16	0.076	0.080	0.012	UM	0.015
Oct-16	0.068	0.105	0.016	UM	0.015
Nov-16	0.058	0.105	0.014	UM	0.016
Dec-16	0.084	0.096	0.015	UM	0.015
Jan-17	0.070	0.072	0.013	UM	0.012
Feb-17	0.087	0.087	0.016	UM	0.016
Mar-17	0.083	0.136	0.017	UM	0.016

J.K.Cement Works,Mangrol (Line-1)
AMBIENT AIR QUALITY MONITORING DATA FOR SPM
(MONTHLY AVERAGE IN $\mu\text{g}/\text{M}^3$)
FY 2016-17
TABLE - VII

Month	Location			
	NEAR TIME OFFICE	NEAR THERMAL POWER PLANT	NEAR RAW MATERIAL GATE	NEAR PACKING PLANT GATE
Apr-16	368.5	326.5	350.0	356.0
May-16	382.0	338.3	356.7	362.5
Jun-16	332.3	292.2	309.7	316.0
Jul-16	285.0	311.7	286.8	268.3
Aug-16	213.0	231.3	204.2	188.2
Sep-16	283.0	310.8	288.0	257.3
Oct-16	316.0	339.5	315.3	294.0
Nov-16	324.0	349.8	322.5	310.5
Dec-16	346.5	365.0	329.8	307.5
Jan-17	338.0	387.8	355.8	369.5
Feb-17	324.2	358.3	348.8	350.0
Mar-17	341.0	383.5	360.8	330.0