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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/ 3651

Date: 20.09.2016

To,

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

SUBJECT: Environmental Statement for the year 2015-2016 (02 Copies)

Dear Sir,

Kindly find herewith enclosed **Environment Statement Report of 25 MW coal based Captive Power Plant for the year 2015-2016** for your reference and record. We trust you will find the same in order.

Thanking you.

Gayatri

Yours Faithfully
For J.K. Cement Works, Mangrol

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

Encl. : a / a

Copy to –

The Regional Officer
Rajasthan State Pollution Control Board
Near FCI Godown, Chanderia
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
31ST MARCH 2016**

25 MW Captive Power Plant of M/s J.K. Cement Works, Mangrol (Raj.)

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.) |
| (II) | INDUSTRY CATEGORY
PRIMARY :- (STC CODE)
SECONDARY :- (SIC CODE) | Primary |
| (III) | POWER PRODUCTION CAPACITY: -
(DESIGNED / INSTALLED CAPACITY) | 25 MW Power generation |
| (IV) | YEAR OF ESTABLISHMENT :- | Year 2014 |
| (V) | DATE OF LAST ENVIRONMENTAL
STATEMENT SUBMITTED | September 2015 |

PART - B

WATER & RAW MATERIAL CONSUMPTION

- (1) **WATER CONSUMPTION M³/day**
- | | | |
|----------|---|---|
| Process | : | 300 M ³ /day (Max. permitted quantity) |
| Cooling | : | Nil |
| Domestic | : | 200 M ³ /day (Including Cement plant) |

NAME OF THE PRODUCTS

PROCESS WATER CONSUPTION PER
PRODUCT OUTPUT

	PREVIOUS FINANCIAL YEAR (M3 / KWH)	CURRENT FINANCIAL YEAR (M3 / KWH)
	(1)	(2)
POWER	0.00087	0.000602

(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 (MT / KWH)	DURING THE CURRENT FINANCIAL YEAR (MT / KWH)
Coal / Petcoke	Power	0.0008654	0.0007146

* 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
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(a)	Water	:		
(i)	Colonial	:	Domestic effluent is being treated in Sewage Treatment Plant.	
(ii)	Industrial	:	Nil, as discharge waste water after treatment reuse for water spray in coal yard & haul road.	
			Waste water Analysis report attached as annexure -1	
(b)	Air	:	Parameter	Standard
			Boiler ESP	100 mg/Nm ³
			Coal Crusher B.F.	100 mg/Nm ³
				Remarks
				Parameters are within prescribed limit
				(See annexure -2)

PART - D

(As specified under Hazardous Waste Management, Handling and Trans Boundary Movement rules-2008)

HAZARDOUS WASTE		TOTAL QUANTITY (KL.)	
		DURING THE PREVIOUS FINANCIAL YEAR	DURING THE CURRENT FINANCIAL YEAR
(a)	From Process (DG & Plant Machinery) -	17.94 KL Used Oil (Including Cement plant)	
(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
Fly ash	15615.86 MT	19497.236

Total quantity of generated fly ash is being utilized in our Cement plant.

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.

Not Applicable

PART - G

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

- (a) Water: Waste water treated in neutralization pit & used for spraying dust suppression inside plant.
- (b) Air : We have installed adequate Air Pollution Control measures i.e. ESP & Bag filters for Maintain the emission level. Dense plantation done around the plant.

PART - H

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

Not Applicable

PART - I

ANY OTHER PARTICULARS FOR IMPROVING THE QUALITY OF ENVIRONMENT.

Not Applicable

**For J.K.CEMENT WORKS
MANGROL**


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

J.K. Cement WORKS, Mangrol (RAJ)
25MW CAPTIVE POWER PLANT
Outlet of Power Plant FY 2015-16

S.No.	Parameter/Month	Apr-15	May-15	Jun-15	Jul-15	Aug-15	Sep-15	Oct-15	Nov-15	Dec-15	Jan-16	Feb-16	Mar-16
1	Total Suspended Solids (TSS)	46.00 mg/l	54.00 mg/l	49.00 mg/l	44.00 mg/l	39.00 mg/l	36.00 mg/l	32.00 mg/l	35.00 mg/l	39.00 mg/l	34.00 mg/l	37.00 mg/l	36.00 mg/l
2	Oil & Grease	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
3	Total Residual Chlorine	N.T.	N.T.	N.T.	N.T.	N.T.	N.T.	N.T.	N.T.	N.T.	N.T.	N.T.	N.T.
4	Free available chlorine	N.T.	N.T.	N.T.	N.T.	N.T.	N.T.	N.T.	N.T.	N.T.	N.T.	N.T.	N.T.
5	pH Value	8.1	7.80	7.65	7.9	7.45	7.72	7.45	7.65	7.9	7.75	7.95	7.72
6	Temperature	4 deg. C higher than the intake water temperature	4 deg. C higher than the intake water temperature	4 deg. C higher than the intake water temperature	4 deg. C higher than the intake water temperature	4 deg. C higher than the intake water temperature	4 deg. C higher than the intake water temperature	4 deg. C higher than the intake water temperature	4 deg. C higher than the intake water temperature	4 deg. C higher than the intake water temperature	4 deg. C higher than the intake water temperature	4 deg. C higher than the intake water temperature	4 deg. C higher than the intake water temperature
7	Copper as (Cu)	Bdl	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL
8	Zinc (as Zn)	N.T.	N.T.	N.T.	N.T.	N.T.	N.T.	N.T.	N.T.	N.T.	N.T.	N.T.	N.T.
9	Iron (Total)	Bdl	Bdl	Bdl	Bdl	Bdl	Bdl	Bdl	Bdl	Bdl	Bdl	Bdl	Bdl
10	Chromium (total)	Bdl	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL

NT : Not Traceable
Bdl : Below detectable level

J.K.Cement Works, Mangrol
25MW Captive power plant
Stack monitoring report Year 2015-2016

Month/Parameter	Boiler ESP			Coal crusher Bag Filter		
	Tones/Day	SPM (mg/Nm ³)	% variation from prescribed standard	Tones/Day	SPM (mg/Nm ³)	% variation from prescribed standard
Apr-15	0.17	28.5	-71.5	0.009	24.8	-75.2
May-15	0.169	27.2	-72.8	0.009	25.5	-74.5
Jun-15	0.168	26.6	-73.4	0.009	27.2	-72.8
Jul-15	0.152	24.2	-75.8	0.009	25.4	-74.6
Aug-15	0.159	26.1	-73.9	0.008	23.6	-76.4
Sep-15	0.139	22.4	-77.6	0.008	21.8	-78.2
Oct-15	0.157	24.6	-75.4	0.008	20.2	-79.8
Nov-15	0.157	25.6	-74.4	0.008	21.7	-78.3
Dec-15	0.149	24.1	-75.9	0.009	22.5	-77.5
Jan-16	0.137	22.4	-77.6	0.009	24.2	-75.8
Feb-16	0.152	24.1	-75.9	0.008	21.6	-78.4
Mar-16	0.173	26.3	-73.7	0.009	23.2	-76.8