

Reg A.D.  
**JK Cement LTD.**

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

CIN : L17229UP1994PLC017199

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

Ref. No.: NBH - PC-13/ 3047

Date: 16.09.2017

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

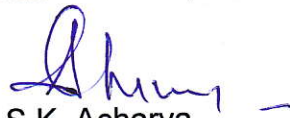
SUBJECT: **Environmental Statement for the year 2016-2017 (02 Copies)**

Dear Sir,

Kindly find herewith enclosed **Environment Statement Report of 13.2 MW waste heat recovery power plant 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, Nimbahera

  
S.K. Acharya  
Astt. 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  
31<sup>ST</sup>MARCH 2017**

**13.2 MW Waste Heat Recovery Power Plant of M/s J.K. Cement Works, Nimbahera (Raj.)**

**PART - A**

- |        |   |  |
|--------|---|--|
| (I)    | NAME & ADDRESS OF THE<br>OWNER / OCCUPIER OF THE INDUSTRY<br>OPERATION OR PROCESS<br>(AS PER FACTORY ACT) | S.K. Rathore<br>Unit Head<br>J.K. Cement Works,<br>Nimbahera, Chittorgarh (Raj.) |
| (II)   | INDUSTRY CATEGORY<br>PRIMARY :- (STC CODE)<br>SECONDARY :- ( SIC CODE)                                    | Primary  |
| (III ) | POWER PRODUCTION CAPACITY :-<br>(DESIGNED / INSTALLED CAPACITY )  | 13.2 MW Power generation   |
| (IV)   | YEAR OF ESTABLISHMENT :-  | Year 2007  |
| (V)    | DATE OF LAST ENVIRONMENTAL<br>STATEMENT SUBMITTED   | September 2016   |

**PART - B**

**WATER & RAW MATERIAL CONSUMPTION**

- (1) **WATER CONSUMPTION M<sup>3</sup>/day**
- |                |   |  |
|----------------|---|--|
| Process        | : | Nil  |
| Boiler/Cooling | : | 1750 M <sup>3</sup> /day Max. (Permitted quantity) |
| Domestic       | : | 05 M <sup>3</sup> /day (Max.)                      |

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NAME OF THE PRODUCTS

PROCESS WATER CONSUPTION PER  
PRODUCT OUTPUT

	PREVIOUS FINANCIAL YEAR (KL)	CURRENT FINANCIAL YEAR (KL)
	(1)	( 2 )
POWER	0.0095	0.0095

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(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
Hot gases From kilns	Power	Waste heat recovered from Different unit of cement plant Kiln -1, Kiln-2, Kiln-3, Precalcinar and Folax Cooler (Hot gases depend up on availability)

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\* 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
<hr/>				
(a )	Water	:		
(i )	colonial	:	N.A., Domestic effluent is being treated in Sewage treatment plant.	
(ii )	Industrial	:	Nil, as discharge waste water after treatment reuse for cement plant machineries cooling purpose.	
(b )	Air	:	Not Applicable	
Waste water Analysis report attached as annexure -1				

## 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 (Plant Machinery)	11.80 KL	29.0 KL (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
Not Applicable	Not Applicable

**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 : Trade effluent is the main Pollutant. To Control the trade effluent under Specified norms laid down by RPCB, We have installed neutralization pit for proper treatment of trade effluent.
- (b) Air : Not Applicable

**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  
NIMBAHERA

**J.K. Cement WORKS, NIMBAHERA (RAJ)**  
13.2 MW THERMAL WASTE HEAT RECOVERY SYSTEM  
 Outlet of Power Plant FY 2016-17

Parameter	Average data
pH	7.47
Total Suspended Solids ( TSS )	37.58
Oil & Grease	<1.1 - <1.6
Bio-Chemical Oxygen Demand (BOD) ( 3 Days at 270C )	8.63
Chemical Oxygen Demand (COD)	39.75
Chlorides ( as Cl )	197.33
Sulphates ( as SO <sub>4</sub> )	40.03
Phosphate	3.70
Iron (as Fe)	0.27
Total Chromium (as Cr)	0.06
Free Available chlorine	<0.1
Copper as (Cu)	<0.01- <0.3
Zinc (Zn)	<0.01 - <0.04
Total Residual Chlorine	NIL
Temperature	4 oC Higher than the intake water