

Regd.AD.

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/ 2761

Date: 26.09.2018

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

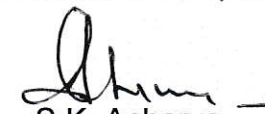
SUBJECT: Environmental Statement for the year 2017-2018 (02 Copies)

Dear Sir,

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

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 2018**

13.2 MW Waste Heat Recovery Power Plant of M/s J.K. Cement Works, Nimbahera (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,
Nimbahera, Chittorgarh (Raj.) |
| (II) INDUSTRY CATEGORY
PRIMARY :- (STC CODE)
SECONDARY :- (SIC CODE) | Primary |
| (III) POWER PRODUCTION CAPACITY :-
(DESIGNED / INSTALLED CAPACITY) | 13.2 MW Power generation |
| (IV) YEAR OF ESTABLISHMENT :- | Year 2007 |
| (V) DATE OF LAST ENVIRONMENTAL
STATEMENT SUBMITTED | 16 th September 2017 |

PART - B

WATER & RAW MATERIAL CONSUMPTION

- (1) **WATER CONSUMPTION M³/day**
- | | | |
|----------------|---|--|
| Process | : | Nil |
| Boiler/Cooling | : | 1750 M ³ /day Max. (Permitted quantity) |
| Domestic | : | 05 M ³ /day (Max.) |

NAME OF THE PRODUCTS

PROCESS WATER CONSUMPTION PER
PRODUCT OUTPUTPREVIOUS FINANCIAL
YEAR (KL)CURRENT FINANCIAL
YEAR (KL)

(1)

(2)

POWER

0.0095

0.0082

(II) RAW MATERIAL CONSUMPTIONNAME OF
RAW MATERIAL
USEDNAME OF
PRODUCTSCONSUMPTION OF RAW MATERIAL
PER UNIT OF OUTPUTDURING THE
PREVIOUS
FINANCIAL
YEARDURING THE
CURRENT
FINANCIAL
YEARHot 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)

* 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 : 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)	29.0 KL (used oil) (Including Cement plant)	11.8 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
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 2017-18

Annexure-1

Parameter	Average data
pH	7.60
Total Suspended Solids (TSS)	45.17
Oil & Grease	<1.0 - <1.7
Bio-Chemical Oxygen Demand (BOD) (3 Days at 270C)	8.91
Chemical Oxygen Demand (COD)	47.75
Chlorides (as Cl)	157.00
Sulphates (as SO ₄)	34.25
Phosphate	3.61
Iron (as Fe)	0.15
Total Chromium (as Cr)	0.05
Free Available chlorine	<0.1
Copper as (Cu)	<0.01- <0.02
Zinc (Zn)	<0.01 - <0.03
Total Residual Chlorine	NIL
Temperature	4 oC Higher than the intake water