



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/ 2245

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 10 MW waste heat recovery power plant for the year 2016-2017** for your kind reference and record. We trust you will find the same in order.

Thanking You.

Gangwan
(V.K. Gangwan)

Yours Faithfully
For J.K. Cement Works, Mangrol

S.K. Acharya
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 2017
10 MW Waste Heat Recovery Power Plant of M/s J.K. Cement Works, Mangrol (Raj.)**

PART - A

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|---------|--|--|
| (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) | 10.0 MW Power generation |
| (IV) | YEAR OF ESTABLISHMENT :- | Year 2014 |
| (V) | DATE OF LAST ENVIRONMENTAL
STATEMENT SUBMITTED | September 2016 |

PART - B

WATER & RAW MATERIAL CONSUMPTION

(1) **WATER CONSUMPTION M³/day**

Process	:	Nil
Boiler/Cooling	:	225 M ³ /day (Max. Permitted quantity)
Domestic	:	200 M ³ /day (Max.) (Including Cement Plant)

NAME OF THE PRODUCTS

PROCESS WATER CONSUMPTION PER
PRODUCT OUTPUT

	PREVIOUS FINANCIAL YEAR (M ³)	CURRENT FINANCIAL YEAR (M ³)
	(1)	(2)
POWER	0.00128	0.00155

(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, Cooler -1 and Cooler-2 (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
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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 (KL)	DURING THE CURRENT FINANCIAL YEAR (KL)
(a)	From Process (Plant Machinery)	17.94	10.0 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
MANGROL**

J.K. Cement WORKS, MANGROL (RAJ)
10 MW WASTE HEAT RECOVERY POWER PLANT
Outlet of Power Plant FY 2016-17

Month/Parameter	Apr-16	May-16	Jun-16	Jul-16	Aug-16	Sep-16	Oct-16	Nov-16	Dec-16	Jan-17	Feb-17	Mar-17
Total Suspended Solids (TSS)	42	49	42	38	32	35	38	35	39	48	48	52
Oil & Grease	<0.4	<1.1	<1.5	<1.2	<1.0	<1.0	<1.4	<1.6	<1.2	<1.1	<1.1	<1.5
Total Residual Chlorine	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL
Phosphate	4.8	4.45	4.3	4.1	4.3	4.1	4.25	4.1	3.9	3.9	3.9	3.75
Free available chlorine	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
pH Value	7.35	7.42	7.7	7.35	7.7	7.85	7.6	7.3	7.45	7.6	7.2	7.35
Temperature	4°C Higher then the intake water	4°C Higher then the intake water	4°C Higher then the intake water	4°C Higher then the intake water	4°C Higher then the intake water	4°C Higher then the intake water	4°C Higher then the intake water	4°C Higher then the intake water	4°C Higher then the intake water	4°C Higher then the intake water	4°C Higher then the intake water	4°C Higher then the intake water
Copper as (Cu)	<0.03	<0.03	<0.04	<0.03	<0.01	<0.01	<0.03	<0.01	<0.02	<0.03	<0.03	<0.02
Zinc (as Zn)	<0.04	<0.03	<0.02	<0.03	<0.02	<0.02	<0.02	<0.02	<0.01	<0.02	<0.01	<0.02
Iron (Total)	0.2	0.4	0.3	0.2	0.4	0.2	0.4	0.2	0.1	0.2	0.2	0.1
Chromium (total)	0.006	0.009	0.005	0.003	0.006	0.004	0.006	0.003	0.002	0.004	0.006	0.003

* All results are in mg/l except temperature

* Bdl : Below detectable limit

* N.T. : Not treceable