

Regd.AD.

JK Cement LTD.

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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/ 2407

Date: 27.09.2018

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

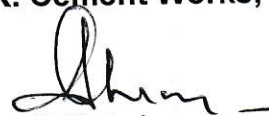
SUBJECT: Environmental Statement for the year 2017-2018 (02 Copies)

Dear Sir,

Kindly find herewith enclosed **Environment Statement Report of 10 MW waste heat recovery power plant for the year 2017-2018** for your kind reference and record. We trust you will find the same in order.

Thanking You.

Yours Faithfully
For J.K. Cement Works, Mangrol


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

Encl. : a / a

Copy to –
The Regional Officer, Rajasthan State Pollution Control Board, Near FCI Godown,
Chandera, 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
10 MW Waste Heat Recovery 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) | 10.0 MW Power generation |
| (IV) YEAR OF ESTABLISHMENT :- | Year 2014 |
| (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 | : | 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	0.00155	0.00101

(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

PART - D

(As specified under Hazardous Waste & other waste Management rules-2016)

HAZARDOUS WASTE		TOTAL QUANTITY (KL)	
		DURING THE PREVIOUS FINANCIAL YEAR (KL)	DURING THE CURRENT FINANCIAL YEAR (KL)
(a)	From Process (Plant Machinery)	10.0 KL (used oil) (Including Cement plant)	16.38 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
MANGROL**


S.K. ACHARYA
(E&I)
J.K. CEMENT WORKS
MUMBAHERA
DIST. CHITTORGARH (Raj.)

J.K. Cement WORKS, MANGROL (RAJ)
10 MW WASTE HEAT RECOVERY POWER PLANT
Outlet of Power Plant FY 2017-18

Annexure-1

Month/Parameter	Apr-17	May-17	Jun-17	Jul-17	Aug-17	Sep-17	Oct-17	Nov-17	Dec-17	Jan-18	Feb-18	Mar-18
Total Suspended Solids (TSS)	49	46	42	46	49	45	43	47	34	47	50	30
Oil & Grease	<1.2	<1.6	<1.2	<1.8	<1.6	<1.3	<1.6	<1.2	<1.4	<1.6	<1.2	<1.4
Total Residual Chlorine	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	<0.1	NIL	NIL	<0.1
Phosphate	3.9	3.7	3.95	4.10	4.00	4.10	4	3.9	4	3.9	3.7	3.60
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	7.6	7.35	7.50	7.25	7.60	7.35	7.65	7.4	7.4	7.7	7.85	7.48
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	<0.01	<0.02	<0.03	<0.01	<0.02	<0.01	<0.01	<0.02	<0.03	<0.02	<0.02
Zinc (as Zn)	<0.02	<0.02	<0.03	<0.02	<0.03	<0.01	<0.03	<0.02	<0.02	<0.03	<0.02	<0.02
Iron (Total)	0.2	0.1	0.2	0.2	0.1	0.2	0.2	0.2	<0.05	0.3	0.2	<0.05
Chromium (total)	0.005	0.002	0.004	0.006	0.003	0.005	0.002	0.004	<0.01	0.004	0.003	<0.01
Biological Oxygen Demand as BOD	NA	NA	7.7	7.2	8.7	8.3	8.7	9.2	7.6	8.1	8.4	7.0
Chemical Oxygen Demand as COD	NA	NA	32	39	41	46	42	46	43	46	49	41

* All results are in mg/l except temperature

* Bdl : Below detectable limit

* N.T. : Not treceable