

**J.K. Cement Works, Mangrol (Raj.)**

Ref. No.: MGR - PC-13/ 2691

Date: 23.09.2015

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


SUBJECT: **Environmental Statement for the year 2014-2015 (02 Copies)**

Dear Sir,

Kindly find herewith enclosed **Environment Statement Report of 10 MW waste heat recovery power plant for the year 2014-2015** 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 -  
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)

➡ Pollution Control Deptt.

*4 pages*

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 2015  
10 MW Waste Heat Recovery Power Plant of M/s J.K. Cement Works, Mangrol (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>Mangrol, Chittorgarh ( Raj.) |
| ( II ) INDUSTRY CATEGORY<br>PRIMARY :- (STC CODE )<br>SECONDARY :- ( SIC CODE )                                   | Primary   |
| ( III ) POWER PRODUCTION CAPACITY :-<br>( DESIGNED / INSTALLED CAPACITY )   | 10.0 MW Power generation  |
| ( IV ) YEAR OF ESTABLISHMENT :-   | Year 2014   |
| ( V ) DATE OF LAST ENVIRONMENTAL<br>STATEMENT SUBMITTED   | -   |

**PART - B**

**WATER & RAW MATERIAL CONSUMPTION**

- ( 1 ) **WATER CONSUMPTION M<sup>3</sup>/day**
- |                |   |   |
|----------------|---|---|
| Process        | : | Nil   |
| Boiler/Cooling | : | 225 M <sup>3</sup> /day (Max.)                          |
| Domestic       | : | 200 M <sup>3</sup> /day (Max.) (Including Cement Plant) |

NAME OF THE PRODUCTS

PROCESS WATER CONSUMPTION PER  
PRODUCT OUTPUT

	PREVIOUS FINANCIAL YEAR	CURRENT FINANCIAL YEAR
	( 1 )	( 2 )
POWER	.....	0.0051

(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 : Nil, as discharge waste water after treatment reuse for cement plant  
 ( i ) colonial : machinery cooling purpose.  
 ( ii ) Industrial :  
 ( 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)	-	27.04 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

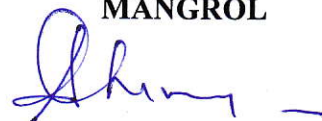
**PART - I**

ANY OTHER PARTICULARS FOR IMPROVING THE QUALITY OF ENVIRONMENT.

Not Applicable

**S.K. ACHARYA**  
**A.V.P. ( E&I )**

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



**J.K. Cement WORKS, MANGROL (RAJ)**  
**10 MW WASTE HEAT RECOVERY POWER PLANT**  
**Outlet of Power Plant FY 2014-15**

Month/Parameter	Nov-14	Dec-14	Jan-15	Feb-15	Mar-15
Total Suspended Solids ( TSS )	26.33	Plant was not run in full month	Plant was not run in full month	41	46
Oil & Grease	0.68			<2.0	<2.0
Total Residual Chlorine	0.15			N.T.	N.T.
Phosphate	NIL			2.8	3.1
Free available chlorine	0.1			N.T.	N.T.
pH Value	7.68			7.9	8.1
Temperature	2 <sup>0c</sup> -3 <sup>0c</sup> Higher then the intake water			4 <sup>0c</sup> Higher then the intake water	4 <sup>0c</sup> Higher then the intake water
Copper as ( Cu)	NIL			Bdl	Bdl
Zinc (as Zn)	NIL			N.T.	N.T.
Iron (Total)	0.11			Bdl	Bdl
Chromium (total)	NIL			Bdl	Bdl

\* All results are in mg/l except temperature

\* Bdl : Below detectable limit

\* N.T. : Not treceable