Regd.AD.

JK Cement LTD.

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E-mail : jkc.nbh@jkcement.com
Web : www.jkcement.com

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/ 2488

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 25 MW coal based Captive 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, 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, Chanderia, Distt.- CHITTORGARH (RAJ)

Government of India

Ministry of Environment and Forest

" FORM - V "

(See rule 14)

ENVIRONMENTAL STATEMENT FOR THE FINANCIAL YEAR ENDING THE 31ST MARCH 2018

25 MW Captive 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)	25 MW Power generation
(IV)	YEAR OF ESTABLISHMENT : -	Year 2014
(V)	DATE OF LAST ENVIRONMENTAL STATEMENT SUBMITTED	16th September 2017

PART - B

WATER & RAW MATERIAL CONSUMPTION

(1) **WATER CONSUMPTION M^3/day**

Process : 300 M^3/day (Max. permitted quantity)

Cooling : Nil

Domestic : 200 M^3/day (Including Cement plant)

NAME OF THE PRODUCTS	PROCESS WATER CONSUPTION PER PRODUCT OUTPUT	
	PREVIOUS FINANCIAL YEAR (M3 / KWH)	CURRENT FINANCIAL YEAR (M3 / KWH)
	(1)	(2)
POWER	0.00060	0.00054

(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 (MT / KWH)	DURING THE CURRENT FINANCIAL YEAR (MT / KWH)
Coal / Petcoke	Power	0.0006062	0.0005560

* 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

(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 in process Waste water Analysis report attached as annexure -1		
(b)	Air	:	Parameter	Standard	Remarks
			Boiler ESP	100 mg/Nm3	Parameters are with in prescribed limit (See annexure -2)
			Coal Crusher B.F.	100 mg/Nm3	

PART - D

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

HAZARDOUS WASTE	TOTAL QUANTITY (KL.)	
	DURING THE PREVIOUS FINANCIAL YEAR	DURING THE CURRENT FINANCIAL YEAR
(a) From Process (DG & Plant Machinery)	10.00 KL Used Oil (Including Cement Plant)	16.38 KL Used Oil (Including Cement Plant)
(b) From Pollution Control facilitées	N. A.	N. A.

PART – E

SOLID WASTES

	TOTAL QUANTITY	
	DURING THE PREVIOUS FINANCIAL YEAR	DURING THE CURRENT FINANCIAL YEAR
Fly ash	19940.770	340945

Total quantity of generated fly ash is being utilized in our Cement plant.

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: Waste water treated in neutralization pit & reused in process.
(b) Air : We have installed adequate Air Pollution Control measures i.e. ESP & Bag filters for Maintain the emission level. Dense plantation done around the plant.

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
A.V.P. (E&I)
J.K. CEMENT WORKS
NIMBAHERA
Distt. CHITTORGARH (Raj.)

J.K. Cement WORKS, Mangrol (RAJ)

25MW CAPTIVE POWER PLANT

Outlet of Power Plant FY 2017-18

S.No.	Parameter/Month	Apr-17	May-17	Jun-17	Jul-17	Aug-17	Sep-17	Oct-17	Nov-17	Dec-17	Jan-18	Feb-18	Mar-18
1	Total Suspended Solids (TSS)	48.00	42.00	39	42	46	42	46	49	30	51	46	33
2	Oil & Grease	<1.6	<1.1	<1.4	<1.6	<1.2	<1.6	<1.2	<1.4	<1.4	<1.3	<1.6	<1.4
3	Total Residual Chlorine	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	<0.1	NIL	NIL	<0.1
4	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
5	pH Value	7.85	7.50	7.65	7.40	7.85	7.60	7.35	7.5	7.42	7.8	7.5	7.54
6	Temperature	4oc higher than the intake water temperature	4oc higher than the intake water temperature	4^{o}c higher than the intake water temperature	4^{o}c higher than the intake water temperature	4^{o}c higher than the intake water temperature	4^{o}c higher than the intake water temperature	4oc higher than the intake water temperature	4oc higher than the intake water temperature	4oc higher than the intake water temperature	4oc higher than the intake water temperature	4oc higher than the intake water temperature	4oc higher than the intake water temperature
7	Copper as (Cu)	<0.01	<0.02	<0.03	<0.02	<0.03	<0.02	<0.09	<0.01	<0.02	<0.03	<0.02	<0.02
8	Zinc (as Zn)	<0.02	<0.01	<0.02	<0.01	<0.02	<0.01	<0.02	<0.03	<0.02	<0.02	<0.01	<0.02
9	Iron (Total)	0.1	0.2	0.10	0.20	0.10	0.20	0.1	0.2	<0.05	0.2	0.2	<0.05
10	Chromium (total)	0.002	0.005	0.002	0.004	0.006	0.003	0.005	0.006	<0.01	0.005	0.006	<0.01
11	Biological Oxygen Demand as BOD			8.10	7.60	8.10	8.90	9.15	9.7	8.0	8.2	8.7	8.4
12	Chemical Oxygen Demand as COD			39.0	42.0	39.0	49.0	46	49	46.0	48	51	49
13	Phosphate			3.45	3.60	3.90	3.75	3.9	3.75	3.6	3.75	3.9	3.2

NT : Not Traceable

Bdl : Below detectable level

J.K.Cement Works, Mangrol

25MW Captive power plant

Stack monitoring report Year 2017-18

Month/Parameter	Boiler ESP			Coal crusher Bag Filter		
	Tones/Day	SPM (mg/Nm3)	% variaation from prescribed standard	Tones/Day	SPM (mg/Nm3)	% variaation from prescribed standard
Apr-17	0.10	16.0	-84.0	0.01	14.0	-86.0
May-17	0.11	18.0	-82.0	0.01	16.0	-84.0
Jun-17	0.10	15.0	-85.0	0.01	18.0	-82.0
Jul-17	0.11	17.0	-83.0	0.01	14.0	-86.0
Aug-17	0.09	15.0	-85.0	0.01	17.0	-83.0
Sep-17	0.11	17.0	-83.0	0.01	13.0	-87.0
Oct-17	0.12	19.0	-81.0	0.01	15.0	-85.0
Nov-17	0.11	17.0	-83.0	0.01	12.0	-88.0
Dec-17	0.18	28.0	-72.0	0.009	22.0	-78.0
Jan-18	0.15	23.0	-77.0	0.01	13.0	-87.0
Feb-18	0.12	20.0	-80.0	0.01	11.0	-89.0
Mar-18	0.18	26.0	-74.0	0.01	20.0	-80.0