Keg. AD.



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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/ 30 ML

Date: 16.09.2017

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

SUBJECT: Environmental Statement for the year 2016-2017 (02 Copies)

Dear Sir,

Kindly find herewith enclosed Environment Statement Report of 22 MW coal based Captive Power Plant for the year 2016-2017 for your kind 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, 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 31stMARCH 2017

22 MW Captive Power Plant of M/s J.K. Cement Works, Nimbahera (Raj.)

PART - A

(I)	NAME & ADDRESS OF THE	S.K. Rathore
	OWNER / OCCUPIER OF THE INDUSTRY	Unit Head
	OPERATION OR PROCESS	J.K. Cement Works,
	(AS PER FACTORY ACT)	Nimbahera, Chittorgarh (Raj.)

- (II) INDUSTRY CATEGORY PRIMARY (STC CODE) :-SECONDARY :- (SIC CODE)
- (III) POWER PRODUCTION CAPACITY: -(DESIGNED / INSTALLED CAPACITY)
- (IV) YEAR OF ESTABLISHMENT: -
- (V) DATE OF LAST ENVIRONMENTAL: -STATEMENT SUBMITTED

Primary

22 MW Power generation

Year 2006

September 2016

PART - B

WATER & RAW MATERIAL CONSUMPTION

(1) WATER CONSUMPTION M³/day

- Process 276 M³/day (Max. permitted quantity) :
- Cooling : Nil
- Domestic : 5 M³/day

NAME OF THE PRODUCTS

PROCESS WATER CONSUPTION PER PRODUCT OUTPUT

	PREVIOU	JS FINANCIAL	CURRENT FINANCIAL	
	YEAR (M	13 / KWH)	YEAR (M3 / KWH)	
	(1)		(2)	
POWER	0.0	00033	0.00057	
(II) <u>RAW MATER</u>	IAL CONSUMPTION			
NAME OF	NAME OF	CONSUMPTI	ON OF RAW MATERIAL	
RAW MATERIAL USED	PRODUCTS	PER UNIT OF	FOUTPUT	
		DURING THE	DURING THE	
		PREVIOUS	CURRENT	
		FINANCIAL	FINANCIAL	
		YEAR (MT / KWH)	YEAR (MT / KWH)	
Coal / Petcoke	Power	0.0011	0.0008	

* 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	Concentrations	Percentage of
		Pollutants	of Pollutants	variation from
		discharged	in discharged	prescribed standards
		(Mass / day)	(Mass / volume)	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 for water spray in coal y					
			& haul road.					
			Waste water Analysis repor	t attached as annexure -1				
(b)	Air	:	Parameter	Standard	Remarks			
			Boiler ESP	100 mg/Nm3	Parameters are with in			
			Coal Transfer point B.F.	100 mg/Nm3	prescribed limit			
			Coal Handling system B.F	. 100 mg/Nm3	(see annexure -2)			
			Ash Handling System Ven	t 100 mg/Nm3				

PART - D

(As specified under Hazardous Waste Management, Handling and Trans Boundary Movement rules-2008)

Н	AZARDOUS WASTE	TOTAL QUANTITY (KL)			
		DURING THE PREVIOU	US DURING THE CURRENT		
		FINANCIAL YEAR	FINANCIAL YEAR		
(a)	From Process (DG & Plant Mac	hinery) -	29.0 KL Used Oil (Including		
			Cement plant)		
(b)	From Pollution	N. A.	N. A.		
	Control facilities				
		PART – E			
		SOLID WASTES			
		TOTA	L QUANTITY		
	Ι	OURING THE PREVIOUS	DURING THE CURRENT		
	Η	FINANCIAL YEAR	FINANCIAL YEAR		
F	ly ash	27571.405 MT	18832.400 MT		

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 & used for spraying dust suppression inside plant.
- (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 NIMBAHERA

J.K. Cement WORKS, NIMBAHERA (RAJ)

22MW Captive power plant

Outlet of Power Plant (FY 2016-17)

S.No.	Parameter/Month	Average Data
1	рН	7.5
2	Total Suspended Solids (TSS)	33.8
3	Chemical Oxygen Demand (COD)	24.5
4	Bio-Chemical Oxygen Demand (BOD)(3 Days at 270C)	19.5
5	Oil & Grease	<1 .0 - <1.7
6	Chlorides	235.8
7	Sulphate	249.6
8	Temperature	4oc higher than the intake water temperature
9	Iron (Total)	0.2
10	Copper (total)	<0.01 - <0.06
11	Phosphate (as PO ₄)	1.1
12	Zinc (as Zn)	<0.01 - <0.02
13	Chromium (total)	0.0
14	Total Residual Chlorine	NIL
15	Free available chlorine	<0.1

NT : Not Traceable

Bdl : Below detectable level

J.K.Cement Works, Nimbahera 22MW Captive power plant Stack Monitoring report Year 2016-2017

		Boiler ESP		Coal Handling system Bag Filter			Coal Transfer point Bag Filter		
Month/Parameter	Tones/Day	SPM (mg/Nm3)	% of variation from prescribed standard	Tones/Day	SPM (mg/Nm3)	% of variation from prescribed standard	Tones/Day	SPM (mg/Nm3)	% of variation from prescribed standard
Apr-16	0.1	68.4	-31.6	0.0	25.5	-74.5	0.0	21.3	-78.7
May-16	0.1	71.2	-28.8	0.0	27.2	-72.8	0.0	23.6	-76.4
Jun-16	0.2	78.6	-21.4	0.0	24.5	-75.5	0.0	25.2	-74.8
Jul-16	UM	UM	UM	UM	UM	UM	UM	UM	UM
Aug-16	UM	UM	UM	UM	UM	UM	UM	UM	UM
Sep-16	0.2	75.4	-24.6	0.0	20.3	-79.7	0.0	23.1	-76.9
Oct-16	0.2	79.2	-20.8	0.0	21.7	-78.3	0.0	24.5	-75.5
Nov-16	0.1	76.4	-23.6	0.0	20.1	-79.9	0.0	22.7	-77.3
Dec-16	0.1	72.2	-27.8	0.0	25.8	-74.2	0.0	21.8	-78.2
Jan-17	0.1	69.4	-30.6	0.0	22.8	-77.2	0.0	25.5	-74.5
Feb-17	0.1	66.0	-34.0	0.0	20.0	-80.0	0.0	23.0	-77.0
Mar-17	0.1	62.0	-38.0	0.0	23.9	-76.1	0.0	26.1	-73.9