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JKLCL/ES/12MW-WHR/2023/ 90230

Date: 26.09.2023

To,
The Member Secretary
Rajasthan State Pollution Control Board,
4, Institutional Area, Jhalana Doongari,
JAIPUR-302 004 (Rajasthan)

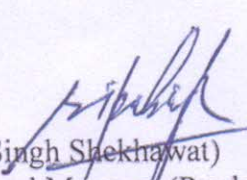
Sub: Environmental Statement for the Financial Year 2022-23 for for JK Lakshmi Cement Ltd. 12 MW Waste Heat Recovery Based Captive Power Plant at Jaykaypuram, Sirohi (Raj.)

Dear Sir,

Please find enclosed herewith Environmental Statement for the FY 2022-23 in the prescribed Form V in accordance with the notification GSR 329 (E) dated 13/03/1992 issued by the Ministry of Environment & Forest, New Delhi.

This is for information and record please.

Thanking you.
Yours Faithfully,
For JK LAKSHMI CEMENT LTD.


(Rajpal Singh Shekhawat)
Sr. General Manager (Production)

Encl: As above

CC: 1) Ministry of Environment & Forests, Regional office (Central Region)
Kendriya Bhawan, 5th Floor, Sector 'H' Aliganj, Lucknow – 226024 (UP)

2) The Regional Officer, Rajasthan State Pollution Control Board,
Plot No. 68, Shanti Nagar, Main Highway Road,
Sirohi (Raj.)-307001



FORM - V

ENVIRONMENTAL STATEMENT FOR THE FINANCIAL YEAR ENDING 31st MARCH 2023

PART - "A"

1- Name & address of the : Dr. S.K Saxena (Sr.VP Works)
Owner / Occupier of the industry JK Lakshmi Cement Ltd. Sirohi (Raj.)
Operation or process

CAPTIVE POWER PLANT : M/s JK LAKSHMI CEMENT LTD.
12 MW WHR BASED CAPTIVE POWER PLANT
P.O: JAYKAYPURAM
DIST. SIROHI (RAJASTHAN)
PIN CODE - 307019

Admn. Office : NEHRU HOUSE
4, BAHADUR SHAH ZAFAR MARG
NEW DELHI - 110001

2- Industry category : LARGE

3- Production capacity : 12 MW (WASTE HEAT RECOVERY) ENERGY

4- Year of establishment : 2021

5- Date of last Environmental :
Statement submitted 26.09.2022

Part "B"

Water and Raw Material Consumption

Water consumption M ³ /Day	:	FY 2022-23
Process	:	75 M ³ / DAY*
Washing / Road Spraying Greenary	:	NIL M ³ / DAY** **Common with Cement Plant.
Domestic	:	Common Colony for Cement Plant, Captive Power Plant & Limestone Mine
Name of the product:	:	<u>Water consumption (washing/spraying) per unit of product</u> <div style="display: flex; justify-content: space-around;"> <div> During the previous Financial year 2021-22 </div> <div> During the current Financial year 2022-23 </div> </div>

ELECTRICAL ENERGY	0.476 M ³ /MWH	0.352 M ³ /MWH
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Raw Material consumption: **Not applicable**

Name of the Raw material	Name of the Product	<u>Consumption of Raw material per</u>	
		<u>Unit of Kg/MWH and Lit/MWH During the</u>	
		<u>Financial year.</u>	<u>Current year.</u>
		2021-22	2022-23
a) Raw material	Energy		
1. Lime Stone		NIL Kg / MWH	NIL Kg/MWH
2. LDO/Diesel		NIL L / MWH	NIL L/MWH
b) Fuel			
1. Pet Coke		NIL Kg / MWH	NIL Kg/MWH
2. Coal		NIL Kg / MWH	NIL Kg/MWH

Part - "C"

Pollution discharged to Environment/unit of output (Paramteres as specified in the Consent issued)

<u>Pollutants</u>	Quality of Pollutants Discharged Mass/Day	Conc.of Pollutants in disch(mass/Vol.)	Percentage of variation from prescribed standard with Reasons.
<u>a) Water</u>			
I) Industrial	Nil	Nil	Nil
II) Domestic	Nil	Nil	Nil

Note:

The domestic effluents generated are treated (100%) in Sewage waste Treatment Plant (STP) & treated effluents are reused (100%) in cement plant for industrial Cooling purpose and therefore no waste water is discharged. Waste water from WHR is being recycled in cement plant. STP details are attached vide annex-"B"

b) Air : Stack emission

Stack attached to	Quantity of SPM discharged, Kg/Day	Conc.of SPM discharged, Mg/Nm ³	Percentage of variation from prescribed standard with Reasons.
Boiler ESP Stack			Not Applicable

Part "D"

Hazardous Waste

As specified under Hazardous Waste (Management, Handling & Transboundary Movement) Rules, 2008

Hazardous Waste: Used Oil Category 5.1 as per schedule - 1 of H & OW (M & TBM) Rule, 2016

	<u>Total quantity(Kg)</u>	
	During previous Financial year <u>2021-22</u>	During Current Financial year <u>2022-23</u>
a) From process	NIL	NIL
b) From Pollution Control Facilities	NIL	NIL

Part "E"

Solid Waste

	<u>Total quantity(MT)</u>	
	During previous Financial year 2021-22	During current Financial year 2022-23
(a) From process	-	-
(b) From pollution control facility	NIL	NIL
(c) (1) Quantity recycled or re-utilised within the unit		
(2) Sold	NIL	NIL
(3) Disposed	-	-

Part "F"

Please specify the characteristics (in terms of concentration & quantum) of hazardous as well as Solid waste and indicates disposal practice adopted for both these categories of wastes.

No hazardous waste was generated during FY 2022-23

Part "G"

Impact of Pollution Control measures on conservation of natural resources and consequently on the cost of production.

M/s JK Lakshmi Cement Ltd Installed Air Cooled Condensor in 12 MW WHR CPP inspite of Water Cooled Condensor. Reduction of water consumption is three times lesser with Air cooled condensor and no cooling waste water is generated. Waste water is being treated with necessary neutralize tretament and treated water is being used in industrial cooling in own cement plant.

Part "H"

Additional measures/investment proposal for environmental protection including abatement of Pollution, prevention of pollution

It is a waste heat recovery based power plant. It conserves natural resources like fossil fuel by utilization of waste heat from Pre-heater and Cooler. Moreover, it reduces CO2 emissions into atmosphere due to combustion of fossil fuel and water consumption utilized in cement manufacturing process.

Part "I"

Any other particulars for improving the quality of the environment.

In WHR CPP power is generated from waste heat of Kiln's sections. Air cooled condensor installed for cooling purpose.

Raw material Consumption Statement :April 2022 to March 2023

<u>Item</u>	<u>Receipts</u>	<u>Consumption</u>
1. DIESEL	NIL	NIL
2. LIME STONE	NIL	NIL
3. PET COCK	NIL	NIL
4. COAL	NIL	NIL

LIST OF FINISHED PRODUCT

	<u>Quantity MWH / Annum</u>
ELECTRICAL ENERGY (GROSS)	59247.197

Details of major Air Pollution Control Equipment installed

<u>S.NO</u>	<u>LOCATION</u>	<u>CONTROL EQUIPMENT</u>	<u>INVESTMENT</u> Lacs	<u>EFFICIENCY (%)</u>
i)	BOILER (12 MW)		Not applicable	