

NBH/PC/ESR/2025-26/ 743

Date: 17/9/26

To,

The Member Secretary,

Rajasthan State Pollution Control Board,

4, Industrial Area, Jhalana Doongri

JAIPUR – 302004 (Raj.)

Subject: Environmental Statement Report for the FY 2025-2026 of Waste Heat Recovery Power Plant (15.0 MW) of M/s J. K. Cement Works, Nimbahera, Tehsil: Nimbahera, Distt: Chittorgarh (Rajasthan).

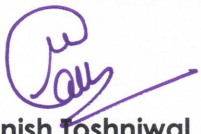
Ref.: F(CPM)/Chittorgarh/Nimbahera/4002(1)/2020-2021/5680-5682, Order no. 2022-2023/CPM/8694, Dated 16/01/2023.

Dear Sir,

Kindly refer to above subject matter, please find enclosed herewith Environment Statement Report of Waste Heat Recovery Power Plant (15.0 MW) of M/s J. K. Cement Works, Nimbahera for the FY 2025-2026 for your kind reference and record. We believe you will find the same in order.

Thanking You.

Yours Faithfully

For J.K. Cement Works, Nimbahera
Manish Toshniwal
Unit Head (Operations)

Encl.: as above.

Copy:

The Regional Officer, Rajasthan State Pollution Control Board, Near FCI Godown, Chanderiya, -312021 Distt. - CHITTORGARH (RAJ.)



Corporate Office

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- ☎ 0124-6919000
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JK SUPER
CEMENT
BUILD SAFE

Manufacturing Units at :

Nimbahera, Mangrol, Gotan (Rajasthan) | Muddapur (Karnataka)
Jharli (Haryana) | Katni (M.P.) | Aligarh (U.P.) | Balasinor (Gujarat)

JK CEMENT
WallMaxX
White Cement Wall Putty



“ENVIRONMENTAL STATEMENT”

15 MW Waste Heat Recovery Systems

**For the period of
April 2025 to March 2026**



**JK Cement Works, Nimbahera,
Chittorgarh, Rajasthan**



“Form-V”

(See rule 14)

Environmental Statement for the financial year 2025-26, ending the 31st March 2026

Part – A

I. Name an address of the owner/occupier of the industry operation or process	J. K. Cement Works, Nimbahera (15 MW Waste Heat Recovery System) Kailash Nagar, Tehsil: Nimbahera, Chittorgarh (Rajasthan) PIN-312617
II. Industry category Primary - (STC Code) Secondary - (STC Code)	Primary
III. Production capacity	15 MW
IV. Year of establishment	2007
V. Date of last environmental statement submitted	22.09.2025

Part – B

WATER AND RAW MATERIAL CONSUMPTION

i. WATER CONSUMPTION in m³/day

Process	:	Nil
Cooling	:	76.55 m ³ /day
Domestic	:	Nil

Name of products	Process water consumption per unit of products	
	During the previous financial year (2024-25) (KL/MWh)	During the current financial year (2025-26) (KL/MWh)
1. Power (Electricity)	0.41	0.29

* Total water consumption including utilization of WHR waste water in Cement plant.

ii. RAW MATERIAL CONSUMPTION

Name of raw material	Name of products	Consumption of raw material per unit of output	
		During the previous financial year (2024-25)	During the current financial year (2025-26)
Waste hot gases from Kiln & Cooler	Power (Electric)	Waste heat recovered from Kiln-1, Kiln-2, Kiln 3, Cooler (Waste hot gases depends up on availability)	

Part – C
Pollution Discharge to Environment / Unit of Output

Pollutants	Quantity of pollutants discharged (kg/ ton of Clinker)	Concentration of pollutants in discharge (mg/Nm ³)	Percentage of variation from prescribed standards with reasons			
(a) Water	Effluent waste water generated from blow down of cooling tower and DM plant waste water treated in neutralization pit as prescribed by Rajasthan State Pollution Control Board and treated water is being utilized in cement plant in cooling purpose, hence maintaining Zero Liquid Discharge unit.					
(b) Air	Waste heat recovery power plant has no any stack; hence it is not applicable					
Ambient Air Quality Monitoring Results (yearly average)						
Location		Parameters				
		PM10 (µg/m ³)	PM2.5 (µg/m ³)	SO ₂ (µg/m ³)	NO _x (µg/m ³)	CO (mg/m ³)
Near Main Gate		56.10	28.28	9.43	19.19	0.40
Near CPP Gate		54.21	29.69	10.09	19.83	0.40
Near Cricket ground colony		51.89	27.09	9.85	19.35	0.40
Near Mine gate		55.17	28.58	9.70	19.68	0.41

N-pit yearly average Analysis report

S.No.	PARAMETER	Standards	Yearly Average
1	pH	Between 5.5 to 9.0	7.6
2	Total Suspended solids	Not to exceed 100 mg/l	42.9
3	Chemical Oxygen Demand	Not to exceed 250 mg/l	168.4
4	Biological Oxygen Demand (3 days at 27 Degree C)	Not to exceed 30 mg/l	17.8
5	Oil & Grease	Not to exceed 10 mg/l	1.7
6	Iron (Total)	Not to exceed 50 mg/l	0.1
7	Copper (Total)	Not to exceed 1.0 mg/l	<0.1
8	Phosphate (as PO ₄)	Not to exceed 5.0 mg/l	0.7
9	Zinc (as Zn)	Not to exceed 1.0 mg/l	<0.1
10	Free available chlorine	Not to exceed 0.5 mg/l	<0.01

Noise level monitoring data

Main Security Gate		Near CPP Gate		Near Cricket Ground		Near Mine Office	
Day	Night	Day	Night	Day	Night	Day	Night
65.91	54.78	64.02	52.57	62.90	48.05	64.14	54.95

Part – D
(As Specified under Hazardous & other Waste Management Rule – 2016)

Hazardous waste	Total Quantity	
	During previous financial year (2024-25) (KL)	During current financial year (2025-26) (KL)
(a) From process	Used oil (5.1)- 19.954 Waste oil (5.2)- Nil	Used oil (5.1)- 6.95 (32 Drums) Waste oil (5.2)- 4.2 (20 Drums)
(b) From pollution Control facilities	Not applicable	Not applicable

*including Cement Plant, CPP, WHRS, Mines & Colony. Hazardous waste generated are being sold to authorized recycler by CPCB.

Part – E
Solid Waste

S. N.	Source	Total Quantity	
		During previous financial year (2024-25) (MT/Year)	During current financial year (2025-26) (MT/Year)
(a)	From process	Not applicable	Not applicable
(b)	From pollution control facility	Not applicable	Not applicable
(c)	Quantity rejected or reutilized with in the unit	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.

- **Solid Waste: Not application**
- **Hazardous Waste:** Authorization no.- RPCB/HWM/2025-2026/ CPM/HSW/19 dated 06/10/2025 of used spent oil (Cat. 5.1) & waste oil (Cat.5.2) which is collected from mines, L.S Crusher, Plant machineries/equipment & Colony is being is being stored in centralized location at plant premises in M.S. drums on concreted floor under covered shed and is being sold out to authorized recycler.
- **Battery Waste Management:** Complying with the provisions under Batteries (Management & Handling) amendment Rules, 2010 and subsequently amended rules 2022, as a Bulk Consumer and maintain record as per the said rule.
- **E-Waste Management:** Complying with the provisions under E-Waste (Management) Rules, 2022 and subsequently amendments, as a Bulk Consumer, the annual return regarding disposal of e-waste is being submitted regularly to RSPCB. The E-waste generated from the unit is being sold out only to authorized e-waste recyclers. During year 2025-26, e-waste sold out quantity is Nil.
- **Biomedical Waste Management:** Complying with the provision under Bio-Medical Waste Management Rules, 2016 and subsequently amended rules 2019, for the generation,

segregation & disposal of Bio-medical waste generated. Authorization letter no. BMW/2022-2023/Chittorgarh/BMW/19 dated 2/11/2022. The Bio Medical waste is being segregated collected & stored at health centre premises in prescribed coloured bins as per rule & handed over to authorized CBMWTDF i.e. m/s envision enviro engineers pvt. ltd. Udaipur for final treatment/disposal. For the year 2025 Annual return for Bio-Medical waste submitted to RSPCB on dated 24/01/2026

- Waste hot gas release from Kiln & Cooler section totally use for power generation by WHRS. Effluent waste water generated from blow down of cooling tower and DM plant waste water treated in neutralization pit as prescribed by Rajasthan State Pollution Control Board and treated water is being utilized in cement plant in cooling purpose, hence maintaining Zero Liquid Discharge unit.

Part – G

IMPACT OF THE POLLUTION ABATEMENT MEASURES TAKEN ON CONSERVATION OF NATURAL RESOURCES AND ON THE COST OF PRODUCTION.

Industry have installed neutralization pit for proper treatment of trade effluent to control the norms under the prescribed limit as specified by Rajasthan State Pollution Control Board. Treated water is utilized in process and machinery cooling purposes in cement 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

1. We have successfully transitioned from a water-cooled system (cooling towers) to an Air-Cooled Condenser (ACC) for our Waste Heat Recovery System (WHRS). This strategic shift has led to a remarkable reduction in our daily water consumption. This initiative is a testament to our dedication to responsible resource management and our ongoing efforts to minimize our environmental footprint. The adoption of this advanced cooling technology not only enhances the efficiency of our operations but also plays a crucial role in conserving a vital natural resource. We will continue to explore and implement sustainable solutions to create a more resilient and environmentally conscious future.
2. Ambient air and water quality are being monitored on regularly as mentioned in consent to operate.
3. 4 nos. of Continuous Ambient Air Quality Monitoring Systems (CAAQMS) has been installed at periphery of the plant.
4. To utilization of waste heat, Waste heat recovery system has been installed to generate green power.
5. Proper Housekeeping and cleaning are being done with the help of three road sweeping machines.

6. Domestic waste water generated is being treated in sewage treatment plant (STP). Treated water is utilized for plantation / horticulture development.
7. Effluent waste water generated from WHRS is being totally being treated in Neutralization pit and finally reused in cement plant.
8. Cemented road constructed to avoid fugitive dust generation during the movement of vehicle.



9. Telemetry system installed for online ground water level monitoring.



10. Industry has constructed 4 nos. of rain water harvesting structures in plant area and 9 Nos. Check dam on seasonal nallah and 01 water pond at Nimbahera plant to recharge ground water more than 200%.



11. Total plantation 95647 nos. till 31st March 2025 on 32.36 Ha. area, apart from this 8823 nos. - Tree sapling planted in 2025-2026 to increase the plant density and gap filling.





12. We have dedicated team for planning execution of combined CSR activities for Both Cement Plant (Nimbahera and Mangrol unit) and its associated mines, on the focus area of infrastructure, health, sanitation & water, women-empowerment, sports, education etc. Area wise CSR activities with expenditure details for the period from April - 2025 to March - 2026 is given as below: -

Focus area	Beneficiaries reached		Expenditure (In Rs.)
	Direct	Indirect	CSR
Health	34070	28451	38,07,099
Education	3476	15904	74,63,287
Livelihood	56354	225416	31,83,770
Rural transformation	13559	30836	77,19,246
Environment & sustainability	17000	48000	5,28,701
Disaster relief & others	1700	800	1,20,621
Total	126159	349407	2,28,22,724

Evidences: -

1. Health



2. Education



3. Livelihood



4. Rural transformation



5. Environment & sustainability

जे. के. सीमेंट वर्क्स, निम्बाहेड़ा व मांगरोल प्लान्ट एवं आर. एस. पी. सी. बी चितोडगढ़ टीम द्वारा ओजोन दिवस का आयोजन

जन जागरण संदेश

मोहन लाल चितोडगढ़। निम्न ओजोन दिवस के अवसर पर जे. के. सीमेंट वर्क्स, निम्बाहेड़ा व मांगरोल प्लान्ट, आर. एस. पी. सी. बी चितोडगढ़ और सी एस आर टीम के सदस्यों ने पंचारत ओजोन और अरुणिया जैसी चाम पंचायतों के राजकीय उच्च माध्यमिक विद्यालय में जागरण कार्यक्रम आयोजित किया गया। यह कार्यक्रम जे. के. सीमेंट के लुनित हेड अरुणिया तालाबगढ़ और एमआर हेड प्रकाश निवा के मार्गदर्शन में आयोजित किए गए। कार्यक्रम का उद्देश्य बच्चों को ओजोन और सतह स्तरों से जोड़ने हुए उन्हें ओजोन परत के महत्व के



बारे में जागरण करता था। इस दौरान जागरण रात्र, पोस्टर प्रतियोगिता, निबंध लेखन प्रतियोगिता तथा प्रत्येकी प्रतियोगिता में प्रथम श्रेणी व श्रेष्ठ स्वयं प्राप्त प्राप्त छात्रों को पुरस्कार एवं आर एस पी सी बी चितोडगढ़ द्वारा उपलब्ध कराए गए प्रशस्ति पत्र

वितरण के साथ आनंदमय वातावरण रात्र से समान हुआ। अंत में छात्रों को पोषे उपहार स्वयं प्रदान किए गए, जो पर्यावरण संरक्षण और हरित जीवन के प्रति हमारी सार्वजनिक जिम्मेदारी का प्रतीक है। यह कार्यक्रम व केवल जागरण केवल में सफल रात्र बच्चों बच्चों को पर्यावरण की रात्र के लिए छोटे छोटे मूल महत्वपूर्ण काम उठाने के लिए प्रेरित भी किया। इस अवसर पर जे के सीमेंट के सचिव निवाग के निदेश प्रमुख जे. के. सीमेंट, प्रमुख रात्र की, पर्यावरण निवाग के प्रमुख अरुण शर्मा, प्रमुख मांगरी, मोहरी, सी एस आर प्रमुख मोहन कुमार एच आर टीम से लेकेरा व आरुण जी और अरुणिया से।



6. Disaster relief & others