



Government of India
Ministry of Environment, Forest and Climate Change
(Impact Assessment Division)

To,

The President (O) & Unit Head

JK CEMENT LTD KANPUR

JK Cement Works Kailash Nagar Nimbahera,,chittorgarh,Rajasthan-312617

Subject: Grant of Environmental Clearance (EC) to the proposed Project Activity under the provision of EIA Notification 2006-regarding

Sir/Madam,

This is in reference to your application for Environmental Clearance (EC) in respect of project submitted to the Ministry vide proposal number IA/RJ/IND/236959/2021 dated 22 Dec 2021. The particulars of the environmental clearance granted to the project are as below.

- | | |
|---|--|
| 1. EC Identification No. | EC22A009RJ140687 |
| 2. File No. | IA-J-11011/243/2016-IA-II(I) |
| 3. Project Type | Expansion7 |
| 4. Category | A |
| 5. Project/Activity including Schedule No. | 3(b) Cement plants |
| 6. Name of Project | Expansion in Clinker Production Capacity (5.0 to 5.2 MTPA) and WHRS {13.2 (Water Cooled) to 15 MW (Air Cooled)} along with additional WHRS {15 MW (Air Cooled)} and Reduction in capacity of Captive Power Plant (47 to 22 MW) At Nimbahera, District: Chittorgarh (Rajasthan) by M/s. JK Cement Limited |
| 7. Name of Company/Organization | JK CEMENT LTD KANPUR |
| 8. Location of Project | Rajasthan |
| 9. TOR Date | N/A |

The project details along with terms and conditions are appended herewith from page no 2 onwards.

Date: 14/02/2022

(e-signed)
Sundar Ramanathan
Scientist E
IA - (Industrial Projects - 1 sector)

Note: A valid environmental clearance shall be one that has EC identification number & E-Sign generated from PARIVESH. Please quote identification number in all future correspondence.

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PARIVESH

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and Virtuous Environment Single-Window Hub)*



This refers to your proposal no. **IA/RJ/IND/236959/2021** dated **22/12/2021** submitted through Parivesh Portal seeking grant of **Environment Clearance (EC) under Para 7 (ii) of EIA Notification, 2006** for the project mentioned above.

2. As per the provisions of the Environment Impact Assessment (EIA) Notification, 2006, the above-mentioned project/activity is listed at schedule no. 3(b) Cement Plants under Category "A" of the schedule of the EIA notification, 2006 and appraised at Central level.
3. Accordingly, the above-mentioned proposal has been considered by the **Re-constituted EAC (Industry-I) in its 51st meeting held on 11-12th January, 2022**. The minutes of the meeting and all the project documents are available on PARIVESH portal which can be accessed at <https://parivesh.nic.in/>.
4. The details of the proposal are as per the Addendum EIA report submitted by the proponent. The salient features of the expansion proposal as presented during the above-mentioned meeting of EAC (Industry 1) are as under: -

S.No.	Particulars	Details																																																			
a.	Terms of Reference for undertaking EIA study	EC is under the provisions of para 7(ii) of EIA Notification, 2006.																																																			
b.	Period of baseline data collection	Baseline monitoring data for the period from April, 2021 to Sept., 2021 based on post project monitored data.																																																			
c.	Date of Public Consultation	Public Consultation for the expansion project was held on 30/06/2017 as part of the existing EC accorded on 23/07/2018.																																																			
d.	Action plan to address the PH issues	As per the previous EC dated 23/07/2018, the proponent had earmarked an amount of Rs. 4.22 Crores to address the issues raised during public consultation.																																																			
e.	Location of the project	Kailash Nagar, Tehsil Nimbahera, District Chittorgarh, Rajasthan.																																																			
f.	Latitude and Longitude of the project site	<table> <tr> <th>Point</th><th>Latitude</th><th>Longitude</th></tr> <tr><td>A</td><td>74°40'51.56" E</td><td>24°39'19.13" N</td></tr> <tr><td>B</td><td>74°40'55.45" E</td><td>24°39'20.94" N</td></tr> <tr><td>C</td><td>74°41'4.83" E</td><td>24°38'54.27" N</td></tr> <tr><td>D</td><td>74°41'11.59" E</td><td>24°38'36.05" N</td></tr> <tr><td>E</td><td>74°41'14.31" E</td><td>24°38'29.25" N</td></tr> <tr><td>F</td><td>74°41'17.35" E</td><td>24°38'19.76" N</td></tr> <tr><td>G</td><td>74°41'19.27" E</td><td>24°38'12.58" N</td></tr> <tr><td>H</td><td>74°41'8.57" E</td><td>24°38'11.71" N</td></tr> <tr><td>I</td><td>74°40'58.07" E</td><td>24°38'19.25" N</td></tr> <tr><td>J</td><td>74°40'58.26" E</td><td>24°38'20.11" N</td></tr> <tr><td>K</td><td>74°40'52.98" E</td><td>24°38'21.75" N</td></tr> <tr><td>L</td><td>74°40'51.09" E</td><td>24°38'21.55" N</td></tr> <tr><td>M</td><td>74°40'52.12" E</td><td>24°38'6.66" N</td></tr> <tr><td>N</td><td>74°40'50.80" E</td><td>24°38'6.57" N</td></tr> <tr><td>O</td><td>74°40'48.43" E</td><td>24°38'14.22" N</td></tr> <tr><td>P</td><td>74°40'49.27" E</td><td>24°38'21.07" N</td></tr> </table>	Point	Latitude	Longitude	A	74°40'51.56" E	24°39'19.13" N	B	74°40'55.45" E	24°39'20.94" N	C	74°41'4.83" E	24°38'54.27" N	D	74°41'11.59" E	24°38'36.05" N	E	74°41'14.31" E	24°38'29.25" N	F	74°41'17.35" E	24°38'19.76" N	G	74°41'19.27" E	24°38'12.58" N	H	74°41'8.57" E	24°38'11.71" N	I	74°40'58.07" E	24°38'19.25" N	J	74°40'58.26" E	24°38'20.11" N	K	74°40'52.98" E	24°38'21.75" N	L	74°40'51.09" E	24°38'21.55" N	M	74°40'52.12" E	24°38'6.66" N	N	74°40'50.80" E	24°38'6.57" N	O	74°40'48.43" E	24°38'14.22" N	P	74°40'49.27" E	24°38'21.07" N
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g.	Total land	98.05 ha [Private Land]																					
h.	Land acquisition details as per MoEF&CC O.M. dated 7/10/2014	The expansion is proposed in existing project area of 98.05 ha. Total land is under the possession of the company. No additional land is required for proposed expansion.																					
i.	Existence of habitation & involvement of R&R, if any	No R&R is involved.																					
j.	Elevation of the project site	437 to 446 m above mean sea level																					
k.	Involvement of Forest land if any.	No Forest Land is involved																					
l.	Water body exists within the project site as well as study area	<p>Project site: Nil</p> <p>Study area:</p> <table> <tr> <th>Water Body</th><th>Distance</th><th>Direction</th></tr> <tr><td>KadamaliNadi</td><td>2.0 km</td><td>SE</td></tr> <tr><td>Gambhiri Reservoir</td><td>2.15 km</td><td>East</td></tr> <tr><td>Daru Nadi</td><td>5.5 km</td><td>SSW</td></tr> <tr><td>Gambhiri Right Main Canal</td><td>7.0 km</td><td>NNE</td></tr> <tr><td>Muraliya Right Main Canal</td><td>7.0 km</td><td>NNW</td></tr> <tr><td>UnchaTalav</td><td>8.0 km</td><td>SW</td></tr> </table>	Water Body	Distance	Direction	KadamaliNadi	2.0 km	SE	Gambhiri Reservoir	2.15 km	East	Daru Nadi	5.5 km	SSW	Gambhiri Right Main Canal	7.0 km	NNE	Muraliya Right Main Canal	7.0 km	NNW	UnchaTalav	8.0 km	SW
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m.	Existence of ESZ / ESA / national park / wildlife Sanctuary / biosphere Reserve / tiger reserve / elephant reserve etc. if any within the study area	<p>Nil</p> <p>However, following Reserved & Protected Forest are located in study area:</p> <ul style="list-style-type: none"> • Arnod RF (8.0 km in NE) • Bhanda Block RF (9.0 km in SSW) 																					
n.	Project cost	<p>Previous EC dated 23/07/2018 – INR 2959.90 Crores</p> <p>Proposed Investment - INR 40 Crores</p>																					
o.	EMP cost	No capital cost for environmental protection measures is proposed. The annual recurring cost towards the environmental protection measures for proposed expansion is nil (Existing recurring cost - 421.06 Crores)																					
p.	Employment opportunity	Nil from the proposed expansion.																					
q.	Water and Power requirement	<p>Water – 2892 KLD</p> <p>Power – 62.5 MW</p>																					

Unit configuration and capacity:

Unit configuration and capacity:													
S. No.	Plant Equipment/ Facility	Existing Facilities as per EC dated 23 rd July, 2018 and amended on 18 th Nov. 2020								Proposed Unit		Final (Existing + Proposed)	
		Total (A + B)		Implemented (A)		Un - implemented (B)		As per CTO					
		Config uration (TPD)	Capacity (MTPA)	Config uration (TPD)	Capacity (MTPA)	Config uration (TPD)	Capacity (MTPA)	Config uration (TPD)	Capacity (MTPA)	Config uration (TPD)	Capacity (MTPA)	Config uration (TPD)	Capacity (MTPA)
1.	Clinker	Line-1: 1175 Line-2: 1675 Line-3: 5500 Line-4: 6567	5.0	Line-1: 1175 Line-2: 1675 Line-3: 5500	2.8	Line-4: 6567	2.2	Line-1: 1175 Line-2: 1675 Line-3: 5500	2.8	Line-3: 1200 (0.4 MTPA) Line-4: (-) 597 {(-) 0.2 MTPA}	0.2 MTPA	Line-1: 1175 Line-2: 1675 Line-3: 6700 Line-4: 5970	5.2
2.	Cement	CM-1: 1509 CM-2: 2152 CM-3 (I&II): 7067 HRP: 3880 CM-4: 4777	6.5	CM-1: 1509 CM-2: 2152 CM-3 (I&II): 7067 HRP: 3880	4.9	CM-4: 4777	1.60	CM-1: 1509 CM-2: 2152 CM-3 (I&II): 7067 HRP: 3880	4.9	No change		CM-1: 1509 CM-2: 2152 CM-3 (I&II): 7067 HRP: 3880 CM-4: 4777	6.5
3.	CPP	CPP-1: 22 MW CPP-2: 25 MW	47 MW	-	22 MW	-	25 MW	-	22 MW	Drop the additional CPP of 25 MW		-	22 MW
4.	WHRB	-	15 MW	-	13.2 MW	-	1.8 MW	-	13.2 MW	15 MW		-	30 MW

5. The Re-constituted EAC (Industry-I) in its 51st meeting held on 11-12th January, 2022 based on information & clarifications provided by the project proponent and after detailed deliberations recommended the instant expansion proposal for grant of Environment Clearance under the provisions of para 7 (ii) of EIA Notification, 2006 subject to stipulation of specific and general conditions as detailed in the paragraph given below.
6. The MoEF&CC has examined the proposal in accordance with the Environment Impact Assessment (EIA) Notification, 2006 & further amendments thereto and after accepting the recommendations of the Expert Appraisal Committee (Industry-1) hereby decided to grant Environment Clearance for instant expansion proposal of **M/s. JK Cement Limited** under the provisions of para 7 (ii) of EIA Notification, 2006 subject to the following specific conditions and general conditions.

A. Specific conditions

- i. All the observations made in the inspection report of Regional Office dated 20/12/2021 shall be complied within one month from date of issue of the Environment Clearance. Compliance status in this regard shall be furnished to the Ministry and the concerned Regional Office of the MoEF&CC.
- ii. Particulate matter emissions from all the stacks shall be less than 30 mg/Nm³.
- iii. Air cooled condensers shall be used in the captive power plant in place of water-cooled system.
- iv. Water consumption shall be reduced from 4071 KLD to 2892 KLD due to switch over from water cooled system to air cooled condensers. Compliance status in this regard

shall be submitted to the concerned Regional Office of the MoEF&CC along with the six-monthly compliance report.

- v. Dioxin and furans shall be monitored twice a year during co-processing of hazardous waste and report shall be submitted to the Regional Office of the MoEF&CC.
- vi. Green belt shall be developed in 33% of the total area all along the entire periphery of the area with a density of 2500 trees per ha by 31st December, 2022 as committed. This shall include development of green belt with a width of 20 m within the project site towards 4 villages around the plant i.e. Rampura (220m), Ahirpura (340m), Kautha (350m) and Nimbaheda (860m) from the project site. Additionally, 14.57 ha land located outside the project site shall be brought under green belt development as committed by the proponent.
- vii. Rain Water harvesting shall be implemented as per the action plan submitted in the addendum EIA report.
- viii. All stockyards shall be having impervious flooring and shall be equipped with water spray system for dust suppression. Stock yards shall also have garland drains to trap the run off material.
- ix. Slip roads shall be provided at the gates and along crossings on main roads.
- x. All internal and connecting road to the Highway shall be black topped/ concreted with suitable load in term of Million Standard Axle (MSA) as per IRC guidelines.
- xi. Performance monitoring of pollution control equipment shall be taken up yearly and compliance status in this regard shall be reported to the concerned Regional Office of the MoEF&CC.
- xii. The recommendations of the approved Site-Specific Conservation Plan / Wildlife Management Plan shall be implemented in consultation with the State Forest Department. The implementation report shall be furnished along with the six-monthly compliance report to the concerned Regional Office of the MoEF&CC.

B. General conditions

I. Statutory compliance:

- i. The Environment Clearance (EC) granted to the project/ activity is strictly under the provisions of the EIA Notification, 2006 and its amendments issued from time to time. It does not tantamount/ construe to approvals/ consent/ permissions etc., required to be obtained or standards/conditions to be followed under any other Acts/Rules/Subordinate legislations, etc., as may be applicable to the project.

II. Air quality monitoring and preservation

- i. The project proponent shall install 24x7 Continuous Emission Monitoring System (CEMS) at process stacks to monitor stack emission as well as 4 Nos. Continuous Ambient Air Quality Station (CAAQS) for monitoring AAQ parameters with respect to standards prescribed in Environment (Protection) Rules 1986 as amended from time to time. The CEMS and CAAQMS shall be connected to SPCB and CPCB online servers and calibrate these systems from time to time according to equipment supplier specification through labs recognized under Environment (Protection) Act, 1986 or NABL accredited laboratories.
- ii. The project proponent shall monitor fugitive emissions in the plant premises at least once in every quarter through labs recognized under Environment (Protection) Act, 1986.
- iii. The project proponent shall provide leakage detection and mechanized bag cleaning facilities for better maintenance of bags.

- iv. The project proponent shall ensure covered transportation and conveying of ore, coal and other raw material to prevent spillage and dust generation; Use closed bulkers for carrying fly ash;
- v. The project proponent shall provide wind shelter fence and chemical spraying on the raw material stock piles;
- vi. Ventilation system shall be designed for adequate air changes as per the prevailing norms for all tunnels, motor houses, and cement bagging plants.

III. Water quality monitoring and preservation

- i. The project proponent shall install 24x7 continuous effluent monitoring system with respect to standards prescribed in Environment (Protection) Rules 1986 vide G.S.R. No. 612 (E) dated 25th August, 2014 (Cement) and subsequent amendment dated 9th May, 2016 (Cement) and 10th May, 2016 (in case of Co-processing Cement) as amended from time to time; S.O. 3305 (E) dated 7th December 2015 (Thermal Power Plants) as amended from time to time) and connected to SPCB and CPCB online servers and calibrate these system from time to time according to equipment supplier specification through labs recognized under Environment (Protection) Act, 1986 or NABL accredited laboratories.
- ii. The project proponent shall regularly monitor ground water quality at least twice a year (pre- and post-monsoon) at sufficient numbers of piezometers/sampling wells in the plant and adjacent areas through labs recognized under Environment (Protection) Act, 1986 and NABL accredited laboratories.
- iii. Sewage Treatment Plant shall be provided for treatment of domestic wastewater to meet the prescribed standards.
- iv. Garland drains and collection pits shall be provided for each stock pile to arrest the run-off in the event of heavy rains and to check the water pollution due to surface run off
- v. Water meters shall be provided at the inlet to all unit processes in the cement plant.
- vi. The project proponent shall make efforts to minimize water consumption in the cement plant complex by segregation of used water, practicing cascade use and by recycling treated water.

IV. Noise monitoring and prevention

- i. Noise quality shall be monitored as per the prescribed Noise Pollution (Regulation and Control) Rules, 2000 and report in this regard shall be submitted to Regional Officer of the Ministry as a part of six-monthly compliance report.

V. Energy Conservation measures

- i. Waste heat recovery system shall be provided for kiln and cooler.
- ii. The project proponent makes efforts to achieve power consumption less than 65 units/ton for Portland Pozzolona Cement (PPC) and 85 units/ton for Ordinary Portland Cement (OPC) production and thermal energy consumption of 670 Kcal/Kg of clinker.
- iii. Provide solar power generation on roof tops of buildings, for solar light system for all common areas, street lights, parking around project area and maintain the same regularly.
- iv. Provide the project proponent for LED lights in their offices and residential areas.

VI. Waste management

- i. Used refractories shall be recycled as far as possible.

VII. Green Belt

- i. The project proponent shall prepare GHG emissions inventory for the plant and shall submit the program for reduction of the same including carbon sequestration by trees in the plant premises.

VIII. Public hearing and Human health issues

- i. Emergency preparedness plan based on the Hazard identification and Risk Assessment (HIRA) and Disaster Management Plan shall be implemented.
- ii. The project proponent shall carry out heat stress analysis for the workmen who work in high temperature work zone and provide Personal Protection Equipment (PPE) as per the norms.
- iii. Occupational health surveillance of the workers shall be done on a regular basis and records maintained.

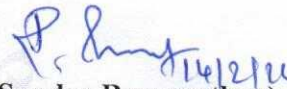
IX. Environment Management

- i. The project proponent shall comply with the provisions contained in this Ministry's OM vide F.No. 22-65/2017-IA.III dated 30/09/2020.
- ii. The company shall have a well laid down environmental policy duly approved by the Board of Directors. The environmental policy should prescribe for standard operating procedures to have proper checks and balances and to bring into focus any infringements/deviation/violation of the environmental / forest / wildlife norms / conditions. The company shall have defined system of reporting infringements / deviation / violation of the environmental / forest / wildlife norms / conditions and / or shareholders / stake holders. The copy of the board resolution in this regard shall be submitted to the MoEF&CC as a part of six-monthly report.
- iii. A separate Environmental Cell both at the project and company head quarter level, with qualified personnel shall be set up under the control of senior Executive, who will directly to the head of the organization.

X. Miscellaneous


- i. The project proponent shall make public the environmental clearance granted for their project along with the environmental conditions and safeguards at their cost by prominently advertising it at least in two local newspapers of the District or State, of which one shall be in the vernacular language within seven days and in addition this shall also be displayed in the project proponent's website permanently.
- ii. The copies of the environmental clearance shall be submitted by the project proponents to the Heads of local bodies, Panchayats and Municipal Bodies in addition to the relevant offices of the Government who in turn has to display the same for 30 days from the date of receipt.
- iii. The project proponent shall upload the status of compliance of the stipulated environment clearance conditions, including results of monitored data on their website and update the same on half-yearly basis.
- iv. The project proponent shall monitor the criteria pollutants level namely; PM10, SO2, NOx (ambient levels as well as stack emissions) or critical sectoral parameters, indicated for the projects and display the same at a convenient location for disclosure to the public and put on the website of the company.
- v. The project proponent shall submit six-monthly reports on the status of the compliance of the stipulated environmental conditions on the website of the ministry of Environment, Forest and Climate Change at environment clearance portal.

- vi. The project proponent shall submit the environmental statement for each financial year in Form-V to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently and put on the website of the company.
 - vii. The project proponent shall inform the Regional Office as well as the Ministry, the date of financial closure and final approval of the project by the concerned authorities, commencing the land development work and start of production operation by the project.
 - viii. The project proponent shall abide by all the commitments and recommendations made in the EIA/EMP report, commitment made during Public Hearing and also that during their presentation to the Expert Appraisal Committee.
 - ix. No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment, Forests and Climate Change (MoEF&CC).
 - x. Concealing factual data or submission of false/fabricated data may result in revocation of this environmental clearance and attract action under the provisions of Environment (Protection) Act, 1986.
 - xi. The Ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.
 - xii. The Ministry reserves the right to stipulate additional conditions if found necessary. The Company in a time bound manner shall implement these conditions.
 - xiii. The Regional Office of this Ministry shall monitor compliance of the stipulated conditions. The project authorities should extend full cooperation to the officer (s) of the Regional Office by furnishing the requisite data / information/monitoring reports.
 - xiv. Any appeal against this EC shall lie with the National Green Tribunal, if preferred, within a period of 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.
7. This issues with the approval of the Competent Authority.


(Sundar Ramanathan)
Scientist 'E'

Copy to:-

1. Secretary, Department of Environment, Government of Rajasthan, Secretariat, Jaipur.
2. Regional Officer, Ministry of Environment, Forest and Climate Change, Integrated Regional Office, A- 209 & 218, Aranya Bhawan, Mahatma Gandhi Road, Jhalana Institutional Area, Jaipur - 304002
3. Chairman, Central Pollution Control Board, Parivesh Bhawan, CBD-cum-Office Complex, East Arjun Nagar, Delhi-110032.
4. Chairman, Rajasthan State Pollution Control Board, 4, Institutional area, Jhalana, Doongri, Jaipur.
5. Member Secretary, Central Ground Water Authority, A-2, W3, Curzon Road Barracks, K.G. Marg, New Delhi-110001.
6. District Collector, Chittorgarh District, Rajasthan.
7. Guard File/Record File/Monitoring File.
8. MoEF&CC website


(Sundar Ramanathan)
Scientist 'E'