

## JK Cement Works, Prayagraj

Formerly known as Jaykaycem (Central: Ltd. now amalgamated) A Unit of JK Cement Ltd.

CIN: L17229UP1994PLC017199

Khasra No. 441,448,450,451, Village: Ledar, Tehsil: Bara, District: Prayagraj, Uttar Pradesh, Pin Code: 212107

State: Uttar Pradesh

To, Date: 22-05-2024

The Deputy Director General of Forest (C) Integrated Regional Office, Kendriya Bhawan, 5<sup>th</sup> Floor, Sector-H, Aliganj,

Pin Code: - 226020, Lucknow (UP) Email: - rocz.lko-moef@nic.in

<u>Subject:</u> Half Yearly Environmental Clearance Compliance Report for the period from (October-2023 to March-2024) of our Proposed Standalone Clinker Grinding Unit with Cement Production Capacity of 2.5 million TPA along with installation of D.G. Sets of capacity 1750 kVA (1250 / 500 / 250 / 125) at Village: Ledar, Tehsil: Bara, District: Prayagraj (Uttar Pradesh) by M/s. JK Cement Limited.

Ref. No. IA-J-11011/300/2022-IA-II(IND-I) dated 19.07.2023.

Dear Sir,

Kindly refer to the above subject matter & referred letter, we are submitting herewith the Six-Monthly Compliance Report of stipulated conditions in Environmental Clearance to M/s. JK Cement Limited Ltd for our Proposed Clinker Grinding Unit Cement Capacity of 2.5 million TPA along with installation of D.G. Sets of capacity 1750 kVA (1250 / 500 / 250 / 125).

As per MoEF&CC Notification vide No.: S.O. 5845(E) dated 26.11.2018 regarding to submit the Environment Clearance Compliance Report in Soft Copy only and in compliance to the same, we are hereby submitting the EC Compliance reports through e-mail for your kind reference and record please.

We trust you will find the same in order.

Thanking you,
Yours faithfully,
M/s. JK Cement Limited,

(Sangeet Nema)
Authorized Signatory

## Copy to:

- 1. CEO -2, UP Pollution Control Board, TC-12V, Paryavaran Bhawan, Vibhuti Khand, Gomti Nagar, Pin Code: 226 010, Lucknow (UP) E. mail: ceo2@uppcb.com
- 2. The Regional Officer Prayagraj, UPPCB, Avas Vikas Parishad Colony, Sector-10, Scheme No.- 3, Jhunsi, Prayagraj.

Corporate Office

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   Gwal Pahari, Gurugram 122102, Haryana
- +0124 6919000
- admin prismt@ikcement.com
- www.jkcement.com





Manufacturing Units at

Nimbahera, Mangrol, Gotan, Rajasthan, Muddapur, Karrataka Jharli Haryana, Katni M.P., Algarh U.P., Balasina, Guarat



	pistrice: Trayagraj (Ottar Trades	,,,	y my or one odinione minime		
Name & Location of Project		:	M/s. JK Cement Limited, at Village: Ledar, Tehsil: Bara, District: Prayagraj (Uttar Pradesh)		
Clearance Letter No. & Date		:	A-J-11011/300/2022-IA-II(IND-I) dated 19.07.2023		
Detail of Project as Per EC Letter		0 8			
Period	of Compliance Report	:	October' 2023 to March	2024	
S. No.	Conditi	on	S	Compliance Status	
Α	SPECIFIC CONDITION				
1.		nea bm th t,	isures and safeguards nitted to the Ministry. All ne EIA/EMP in respect of and risk mitigation		
2.		tili ted atic	ze modern technologies and shall also develop on resources capable of e implementation report		
3.	The PP shall obtain complete a land and convert for the indu Government Rules/Guidelines project	acq str	uisition of the proposed ial purpose as per State		
4.		ct sa nab It a Tl	Proponent shall take feguard measures to itation of the locals. PP all around the plant area the PP shall also include		
5.	The water requirement of 200 from ground water after obta from the Competent Authorit possibility of shifting to alte reduce its dependency from g	ini y. I rna rot	ng necessary permission PP shall also explore the ate source of water to andwater	Unit is obtained 3 No's of NOC for Ground water withdrawal.  I. NOC 047077  II. NOC017949  III. NOC041298  which is valid till 03/11/2027.	
6.	Three tier Green Belt shall be of the project area in a time of 1 along the periphery of the property and tree density shall not be Survival rate of green belt devon periodic basis to ensure replaced with new plants in the also develop greenbelt in comprising of total of 6 rows of trees & broad leaves with windshield inside the plant	ye jec e th the sithe th	ar with native species all at site of adequate width less than 2500 per ha. upped shall be monitored at damaged plants are absequent years. PP shall a form of shelter belt x2 m plantation with tall ick canopy along with	equal to 33% with cover entire periphery of the plant area during commissioning the project.  However approx. 10,000 trees are already planted within the premises.	

	barrier for air pollution & noise levels towards Villages. Compliance status in this regard, shall be submitted to concerned Regional Office of the MoEF&CC.	
7.	All the commitments made towards socio-economic development of the nearby villages shall be satisfactorily implemented. The action plan based on the social impact assessment study of the project as per the EMP in accordance to the Ministry's OM dated 30.09.2020 amounting to Rs. 5.71 Crores shall be strictly implemented, and progress shall be submitted to the Regional Office of MoEF&CC.	per the given direction. Presently project commissioning activities are under process. Socio-economic development implementation progress report will be submitted to MoEF&CC on
8.	PP shall adopt three Villages namely viz. Village Gadha, Village Ledar & Village Abhaipur as committed and undertake village adoption programme, prepare and implement the action plan to develop them into model villages.	per the given direction. Presently project commissioning activities
В	GENERAL CONDITION	
(1) (i)	Statutory compliance: 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)	This Environmental clearance is granted subject to final outcome of Hon'ble Supreme Court of India, Hon'ble High Court, Hon'ble NGT and any other Court of Law, if any, as may be applicable to this project	
(II) (i)	Air quality monitoring and preservation  The project proponent shall install 24x7 continuous emission monitoring system at process stacks to monitor stack emission as well as 04 Nos. Continuous Ambient Air Quality Station (CAAQMS) 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 carryout Continuous Ambient Air Quality monitoring for common/criterion parameters relevant to the main pollutants released (e.g. PM10 and PM2.5 in reference to PM emission, and SO2 and NOx in reference to SO2 and NOx emissions) within and outside the plant area (at least at four locations one within and	will be installed, and monitoring of applicable parameters will be done as per prescribed norms after commissioning of project activities.

	three outside the plant area at an angle of 120° each), covering upwind and downwind directions	
(iii)	The project proponent shall monitor fugitive emissions in the plant premises at least once in every quarter through laboratories recognized under Environment (Protection) Act, 1986 or NABL accredited laboratories.	per the given direction.
(iv)	Sampling facility at process stacks and at quenching towers shall be provided as per CPCB guidelines for manual monitoring of emissions.	_
(v)	Appropriate Air Pollution Control (APC) system shall be provided for all the dust generating points including fugitive dust from all vulnerable sources, so as to comply prescribed stack emission and fugitive emission standards.	
(vi)	The project proponent shall provide leakage detection and mechanized bag cleaning facilities for better maintenance of bags.	
(vii)	Sufficient number of mobile or stationery vacuum cleaners shall be provided to clean plant roads, shop floors, roofs, regularly	_
(viii)	Ensure covered transportation and conveying of raw material to prevent spillage and dust generation. The project proponent use leak proof trucks/dumpers carrying coal and other raw materials and cover them with tarpaulin.	as per the given direction.
(ix)	The project proponent shall provide primary and secondary fume extraction system at all heat treatment furnaces.	
(x)	Wind shelter fence and chemical spraying shall be provided on the raw material stockpiles.	Agreed and assured for the compliance.
(xi)	Design the ventilation system for adequate air changes as per prevailing norms for all tunnels, motor houses, Oil Cellars.	
(xii)	The project proponent shall adopt the Clean Air practices like mechanical collectors, wet scrubbers, fabric filters (bag houses), electrostatic precipitators, combustion systems (thermal oxidizers), condensers, absorbers, adsorbers, and biological degradation. Controlling emissions related to transportation shall include emission controls on vehicles as well as use of cleaner fuels. Sufficient numbers of additional truck mounted Fog/Mist water cannons shall be procured and operated regularly inside the project premises and also in the surrounding villages to arrest suspended dust in the atmosphere.	per the given direction.
(xiii)	Bag filters shall be cleaned regularly, and efficiency of bag filter system shall be monitored at regular intervals.	Agreed and assured for the compliance as per the given direction.
(xiv)	Water Sprinklers/Water mist system shall be installed near raw material yards, operational units and other strategic locations to control fugitive emissions from the plant.	per the given direction. whenever, project

(xv)	The particulate matter emissions from the process stacks	_
	shall be less than 30 mg/Nm3and measures shall be	
	undertaken as per the submitted action plan. Efficient Air monitoring equipment shall be installed	will be commissioned.
(xvi)	Following additional arrangements to control fugitive dust	shall be provided:
а	Following additional arrangements to control fugitive dust	Agreed and assured for the compliance
	shall be provided:	as per the given direction.
b	Proper covered vehicle shall be used while transport of	
	materials.	per the given direction.
С	Wheel washing mechanism shall be provided in entry and	
/\	exit gates with complete recirculation system.	per the given direction.
(xvii)	Provide Low NOx burners as primary measures and SCR /NSCR technologies as secondary measure to control NOx emissions.	
(xviii)	The emission norms applicable for the cement plant shall be adhered to	
(xix)	Dioxin and Furan monitoring shall be carried out once in six months at cement kiln stack	This condition is not applicable to us, as it is a Clinker Grinding Unit.
(xx)	DeSOx system shall be provided dry type. NOx level shall	1.1
/ *	be maintained below 600 mg/Nm3 by using best available technology.	_
(xxi)	Petcoke dosing shall be controlled automatically to control SO2 emission from chimney within the prescribed limits.	
(xxii)	PP shall identify the Source of fluoride emissions and action plan to mitigate the same shall be implemented.	This condition is not applicable to us, as it is a Clinker Grinding Unit.
(xxiil)	Pollution control system in the cement plant shall be provided as per the CREP Guidelines of CPCB	Agreed and assured for the compliance as per the given direction.
(111)	Water quality monitoring and preservation	Agreed and assured for the compliance
(i)	The project proponent shall install 24x7 continuous effluent monitoring system with respect to standards prescribed in Environment (Protection) Rules 1986 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 monitor regularly 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)	Garland drains and collection pits shall be provided for each stockpile to arrest the run-off in the event of heavy rains and to check the water pollution due to surface run off.	,
(iv)	Tyre washing facilities shall be provided at the entrance of the plant gates.	Agreed and assured for the compliance as per the given direction.
(v)	Water meters shall be provided at the inlet to all unit processes in the plants.	Agreed and assured for the compliance as per the given direction.

(vi)	The project proponent shall make efforts to minimise water consumption in the plant complex by segregation of used water, practicing cascade use and by recycling treated water	Agreed and assured for the compliance
(vii)	The proposed project shall be designed as "Zero Liquid Discharge" Plant. ETP shall be installed and there shall be no discharge of effluent from the plant. Domestic effluent shall be treated in Sewage Treatment Plant. Suitable measures shall be adopted for sewage water handling to ensure no contamination of any kind of water body.	
(viii)	All stockyards shall have impervious flooring and shall be equipped with water spray system for dust suppression. Stock yards shall also have garland drains and catch pits to trap the run off material and shall be implemented as per the action plan submitted in EIA/EMP report	-
(ix)	Rainwater harvesting shall be implemented to recharge/harvest water as per the action plan submitted in the EIA/EMP report.	Agreed and assured for the compliance as per the EIA/EMP report.
(IV) (i)	Noise monitoring and prevention  Noise pollution shall be monitored as per the prescribed  Noise Pollution (Regulation and Control) Rules, 2000 and amendments thereof, and report in this regard shall be submitted to Regional Officer of the Ministry as a part of six-monthly compliance report.	in this regard shall be submitted to Regional Officer of the Ministry as a part of six-monthly compliance report.
(ii)	The ambient noise levels should conform to the standards prescribed under E(P)A Rules, 1986 viz. 75 dB(A) during day time and 70 dB(A) during night time.	Agreed and assured for the compliance.
(V) (i)	Provide solar power generation on roof tops of buildings, for solar light system for all common areas, streetlights, parking around project area and maintain the same regularly;	Agreed and assured for the compliance.
(ii)	Provide LED lights in their offices and residential areas	Agreed and assured for the compliance.
(iii)	The project proponent makes efforts to achieve power consumption less than 65 units/tonne for Portland Pozzolona Cement (PPC) and 85 units/tonne for Ordinary Portland Cement (OPC) production and thermal energy consumption of 670 Kcal/Kg of clinker.	Agreed and assured for the compliance.
(iv)	Maximize utilization of fly ash, slag and sweetener in cement blend as per BIS standards	Agreed and assured for the compliance.
(v)	Maximize utilization of alternate fuels and Co-processing to achieve best practice norms	Agreed and assured for the compliance.
(VI)	Waste management	Agreed and assured for the compliance.
(i)	Used refractories shall be recycled as far as possible	
	Oil Callantian with about he many ideal in all collams to callant	Agreed and assured for the compliance
(ii)	Oil Collection pits shall be provided in oil cellars to collect and reuse/recycle spilled oil	whenever, project will be commissioned.
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(v)	The Plastic Waste Management Rules 2016, inter-alia, mandated banning of identified Single Use Plastic (SUP) items with effect from 01/07/2022. In this regard, CPCB has issued a direction to all the State Pollution Control Boards (SPCBs)/Pollution Control Committees (PCCs) on 30/06/2022 to ensure the compliance of Notification published by Ministry on 12/08/2021. The technical guidelines issued by the CPCB in this regard is available at https://cpcb.nic.in/technical-guidelines-3/. All the project proponents are hereby requested to sensitize and create awareness among people working within the Project area as well as its surrounding area on the ban of SUP in order to ensure the compliance of Notification published by this Ministry on 12/08/2021. A report, along with photographs, on the measures taken shall also be included in the six-monthly compliance report being submitted by the project proponents.	Agreed and assured for the compliance as per the given directions.  Notice of SINGLE USE PLASTIC BAN shared & communicated with all the associated members with the Project.
(vi)	A proper action plan must be implemented to dispose of the electronic waste generated in the industry.	Agreed and assured for the compliance.
(VII) (i)	Green Belt The project proponent shall prepare GHG emissions inventory for the plant and shall submit the programme for reduction of the same including carbon sequestration by trees.	GHG emissions inventory will be prepared for the plant and submit report for reduction of the carbon sequestration including plantation
(ii)	Project proponent shall submit a study report on Decarbonisation program, which would essentially consist of company's carbon emissions, carbon budgeting/balancing, carbon sequestration activities and carbon capture, use and storage and offsetting strategies. Further, the report shall also contain time bound action plan to reduce its carbon intensity of its operations and supply chains, energy transition pathway from fossil fuels to Renewable energy etc. All these activities/ assessments should be measurable and monitor able with defined time frames.	Agreed and assured for the compliance.
(iii)	Greening and Paving shall be implemented in the plant area to arrest soil erosion and dust pollution from exposed soil surface.	Agreed and assured for the compliance.
VIII (i)	Public hearing and Human health issues  Emergency preparedness plan based on the Hazard identification and Risk Assessment (HIRA) and Disaster Management Plan shall be implemented.	Agreed and assured for the compliance whenever, project will be commissioned.
(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.	whenever, project will be commissioned.
(iii)	Provision shall be made for the housing of construction labour within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile STP.	·

	Safe drinking water, medical health care, creche etc. The	
	housing may be in the form of temporary structures to be removed after the completion of the project	
(iv)	Occupational health surveillance of the workers shall be done on a regular basis and records maintained.	Agreed and assured for the compliance.
(IX) (i)	Environment Management The project proponent shall comply with the provisions contained in this Ministry's OM vide S.No. 22-65/2017-IA.III dated 30/09/2020. As part of Corporate Environment Responsibility (CER) activity, company shall adopt nearby villages based on the socio-economic survey and undertake community developmental activities in consultation with the village Panchayat and the District Administration as committed.	
(ii)	The company shall have a well laid down environmental policy duly approve 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 shareholder's / stake holders. The copy of the board resolution in this regard shall be submitted to the MoEF&CC as a part of sixmonthly report.	Agreed and assured for the compliance
(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	_
(iv)	Performance test shall be conducted on all pollution control systems every year and report shall be submitted to Integrated Regional Office of the MoEF&CC	
(X) (i)	Miscellaneous 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.	27-1111-1 -

		पर्यावरण उाजुगित के सक्ति में सूचना पर्यावरण अवस्था पर्यावरण वन और कलवाय परिवर्तन मंत्रालव (पन अदिएकसोसी) भारत सरकार में दिन्हें को है आहें ए ऑपस्चन मंत्रालव (पन अदिएकसोसी) भारत सरकार में दिन्हें को है आहें ए ऑपस्चन 2006 के अचीन सम्मा तो के सेम (सेट्रल) तिस्टेड को है आहें ए ऑपस्चन 2006 के अचीन सम्मा तो के सेम (सेट्रल) तिस्टेड को है आहें ए अने कि स्टेड - अनीन कि कि स्टेड में हिन्दी में सिट्रल) तिस्ति के सेम रेट - अनीन कि कि सेम में सिट्रल हो है सिट्रल के सेम रेट अपादन अपता, डी. जी. सेट 1750 के वीष (1250/500/250/125) एवं एच. ए.जी (20 एम. कैलोरी प्रतियंदा की प्रस्तान परियोजना के लिए पर्वावरण वन और अस्त्राला की स्ट्रल है हिन्हें के हाथ पर्यावरण की अनुमति प्रदान की गई है। वह विज्ञापन आम जनता के सूचनार्थ है। पर्यावरण अनुमति प्रदान की गई है। वह विज्ञापन आम जनता के सूचनार्थ है। पर्यावरण अनुमति प्रदान की गई है। वह विज्ञापन आम जनता के सूचनार्थ है। पर्यावरण अनुमति पर क्रमांक A-11011/300/2022-1A-1[[ND-1], दिनोंक 19.07.2023 पर्यावरण वन और जलवायु परिवर्तन मंत्रालय (एमओईएफसीसी) भारत सरकार में विज्ञावर की विज्ञावर (https://partvesh.nic.in/) पर भी उपलब्ध है।
(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 must display the same for 30 days from the date of receipt	has been submitted to the Heads of the Local Bodies (Panchayat and Municipal Bodies), District Collector and DFO vide letter No. JCL/PROJ/2023 /20 dated 26.07.2023.
(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.	Agreed and assured for the compliance
(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 EC Identification No EC23A009UP119311 File No IA-J-11011/300/2022-IA-II(IND-I) Date of Issue EC - 19/07/2023 Page 12 of 18 projects and display the same at a convenient location for disclosure to the public and put on the website of the company.	
(v)	Action plan for developing connecting and internal road in	
(vi)	terms of MSA as per IRC guidelines shall be implemented. 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	
(vii)	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.	Agreed and assured for the compliance
(viii)	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.	Agreed and assured for the compliance

(ix)	The project proponent shall abide by all the commitments and recommendations made in the EIA/EMP report, commitment made during Public Hearing and that during their presentation to the Expert Appraisal Committee	Agreed and assured for the compliance
(x)	The recommendations of the approved Site-Specific Wildlife Management Plan (in case of involvement of Schedule-I species) 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.	
(xi)	The PP shall put all the environment related expenditure, expenditure related to Action Plan on the PH issues, and other commitments made in the EIA/EMP Report etc. in the company web site for the information to public/public domain. The PP shall also put the information on the left-over funds allocated to EMP and PH as committed in the earlier ECs and shall be carried out and spent in next three years, in the company web site for the information to public/public domain.	
(xii)	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).	_
(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.	

M/s. JK Cement Limited

(Sangeet Nema)

**Authorized Signatory**