



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

To,

The GM Legal and Corporate Affairs  
JK CEMENT LIMITED

JK Cement Limited, Padam Tower, 19, DDA Community Center, Okhla  
Phase - 1, New Delhi - 110020,,New Delhi,Delhi-110020

**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/UP/IND1/411361/2022 dated 05 May 2023. The particulars of the environmental clearance granted to the project are as below.

- |   |   |
|---|---|
| 1. <b>EC Identification No.</b>                   | <b>EC23A009UP119311</b>   |
| 2. <b>File No.</b>                                | IA-J-11011/300/2022-IA-II(IND-I)  |
| 3. <b>Project Type</b>                            | New   |
| 4. <b>Category</b>                                | A   |
| 5. <b>Project/Activity including Schedule No.</b> | 3(b) Cement plants  |
| 6. <b>Name of Project</b>                         | 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. Jaykaycem (Central) Ltd. |
| 7. <b>Name of Company/Organization</b>            | JK CEMENT LIMITED   |
| 8. <b>Location of Project</b>                     | Uttar Pradesh   |
| 9. <b>TOR Date</b>                                | N/A   |

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

Date: 19/07/2023

(e-signed)  
Dr. R B Lal  
Scientist F

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.*

*This is a computer generated cover page.*



**IA-J-11011/300/2022-IA-II (I)**  
**Government of India**  
**Ministry of Environment, Forest and Climate Change**  
**(I.A. Division – Industry I sector)**

\*\*\*

Indira Paryavaran Bhawan  
Vayu Wing, 3<sup>rd</sup> Floor,  
Jor Bagh Road, Aliganj,  
New Delhi – 110003

**Dated: 19<sup>th</sup> July, 2023**

To,

**M/s Jaykaycem (Central) Limited**  
J.K. Cement Works, Kailash Nagar,  
Nimbahera, District – Chittorgarh,  
Rajasthan-312617  
Email: [anil.jain@jkcement.com](mailto:anil.jain@jkcement.com)

**Project: 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) by M/s Jaykaycem (Central) Limited, located at Village Ledar, Tehsil Bara, District Prayagraj, Uttar Pradesh – Grant of Environmental Clearance Regarding.**

Sir,

This refers to your proposal no. **IA/UP/IND1/411361/2022** dated **05.05.2023** received through PARIVESH Portal for grant of **Environmental Clearance (EC)** for the project mentioned above. Further, the project proponent has uploaded the information on portal on 08.06.2023 & also submitted the information on land on 22.06.2023.

2. As per the provisions of the Environment Impact Assessment (EIA) Notification, 2006, the above-mentioned project/activity is listed at S. No. 3(b) Cement Plants under Category “B” of the schedule of the EIA Notification, 2006 and attracts general condition due to Interstate Boundary of Uttar Pradesh - Madhya Pradesh falls at a distance of 0.75 km in SSE direction from the proposed project site being appraised at Central Level.

3. The proposal was first considered in the 32<sup>nd</sup> meeting of the EAC for Industry-I sector held on 26<sup>th</sup> & 29<sup>th</sup> May, 2023, wherein the Committee, after detailed deliberations, recommended the proposal. 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 EIA/EMP report submitted by the proponent. The salient features of the proposal as presented during the above-mentioned meetings of EAC (Industry I Sector) are as under: -

S. No.	Particulars	Details submitted by PP
a.	Terms of Reference for undertaking EIA study	31.08.2022
b.	Period of baseline data collection	Summer Season (March to May, 2022)



S. No.	Particulars	Details submitted by PP																																																																											
c.	Date of Public Consultation	05 <sup>th</sup> Dec., 2022 (Monday)																																																																											
d.	Action plan to address the PH issues	An amount of Rs. 5.71 Crores has been earmarked to address the issues raised during public hearing and need based activities attached as <b>Annexure 1</b> .																																																																											
e.	Location of the project	Village Ledar, Tehsil Bara, District Prayagraj, Uttar Pradesh																																																																											
f.	Latitude and Longitude of the project site	<table border="1"> <thead> <tr> <th>Point</th><th>Latitude</th><th>Longitude</th></tr> </thead> <tbody> <tr><td>A.</td><td>25°12'18.39"N</td><td>81°33'55.22"E</td></tr> <tr><td>B.</td><td>25°12'16.97"N</td><td>81°34'1.33"E</td></tr> <tr><td>C.</td><td>25°12'16.61"N</td><td>81°34'1.17"E</td></tr> <tr><td>D.</td><td>25°12'14.80"N</td><td>81°34'11.61"E</td></tr> <tr><td>E.</td><td>25°12'11.87"N</td><td>81°34'10.95"E</td></tr> <tr><td>F.</td><td>25°12'12.21"N</td><td>81°34'8.97"E</td></tr> <tr><td>G.</td><td>25°12'1.07"N</td><td>81°34'9.23"E</td></tr> <tr><td>H.</td><td>25°12'0.99"N</td><td>81°34'6.63"E</td></tr> <tr><td>I.</td><td>25°11'59.33"N</td><td>81°34'6.46"E</td></tr> <tr><td>J.</td><td>25°11'59.29"N</td><td>81°34'6.21"E</td></tr> <tr><td>K.</td><td>25°11'55.10"N</td><td>81°34'5.80"E</td></tr> <tr><td>L.</td><td>25°11'55.03"N</td><td>81°34'4.84"E</td></tr> <tr><td>M.</td><td>25°11'59.41"N</td><td>81°34'5.41"E</td></tr> <tr><td>N.</td><td>25°11'59.62"N</td><td>81°34'0.83"E</td></tr> <tr><td>O.</td><td>25°11'58.94"N</td><td>81°34'0.34"E</td></tr> <tr><td>P.</td><td>25°11'57.72"N</td><td>81°33'59.95"E</td></tr> <tr><td>Q.</td><td>25°11'56.43"N</td><td>81°33'56.45"E</td></tr> <tr><td>R.</td><td>25°11'57.82"N</td><td>81°33'56.13"E</td></tr> <tr><td>S.</td><td>25°12'4.63"N</td><td>81°33'58.93"E</td></tr> <tr><td>T.</td><td>25°12'6.90"N</td><td>81°33'59.55"E</td></tr> <tr><td>U.</td><td>25°12'6.74"N</td><td>81°33'59.97"E</td></tr> <tr><td>V.</td><td>25°12'9.51"N</td><td>81°34'1.33"E</td></tr> <tr><td>W.</td><td>25°12'10.79"N</td><td>81°33'53.23"E</td></tr> <tr><td>X.</td><td>25°12'11.36"N</td><td>81°33'51.57"E</td></tr> </tbody> </table>	Point	Latitude	Longitude	A.	25°12'18.39"N	81°33'55.22"E	B.	25°12'16.97"N	81°34'1.33"E	C.	25°12'16.61"N	81°34'1.17"E	D.	25°12'14.80"N	81°34'11.61"E	E.	25°12'11.87"N	81°34'10.95"E	F.	25°12'12.21"N	81°34'8.97"E	G.	25°12'1.07"N	81°34'9.23"E	H.	25°12'0.99"N	81°34'6.63"E	I.	25°11'59.33"N	81°34'6.46"E	J.	25°11'59.29"N	81°34'6.21"E	K.	25°11'55.10"N	81°34'5.80"E	L.	25°11'55.03"N	81°34'4.84"E	M.	25°11'59.41"N	81°34'5.41"E	N.	25°11'59.62"N	81°34'0.83"E	O.	25°11'58.94"N	81°34'0.34"E	P.	25°11'57.72"N	81°33'59.95"E	Q.	25°11'56.43"N	81°33'56.45"E	R.	25°11'57.82"N	81°33'56.13"E	S.	25°12'4.63"N	81°33'58.93"E	T.	25°12'6.90"N	81°33'59.55"E	U.	25°12'6.74"N	81°33'59.97"E	V.	25°12'9.51"N	81°34'1.33"E	W.	25°12'10.79"N	81°33'53.23"E	X.	25°12'11.36"N	81°33'51.57"E
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g.	Total land	Total land area proposed at the time of ToR for the project was 19.88 ha; [Private agriculture land]. As on date, Consent from land owner for 18.029 ha has been obtained.																																																																											
h.	Land acquisition details as per MoEF&CC O.M. dated 7/10/2014	Total land area proposed at the time of TOR for the project was 19.88 ha. As on date, Consent from land owner for 18.029 ha (44.5508 Acre) has been obtained out of which company has land Sale Deed for 4.35 ha (10.7630 Acre) and for purchase of remaining 13.67 ha (33.7879 Acre), the company has submitted application on 21st April, 2023 to the DM, Prayagraj, UP for exemption under Land Ceiling Act for purchase of more than 5.05 ha (12.5 Acre) of land in UP. The PP vide email dated 22.06.2023 has submitted that sale deed of 18.0293 ha land along with																																																																											



S. No.	Particulars	Details submitted by PP			
		Khasra.			
i.	Existence of habitation & involvement of R&R, if any	Project Site: No habitation exists within the project site.			
		Study Area: Villages falling near to the project site are as given below:			
		Habitation	Distance (km)	Direction	
		Gada	~0.8 km	SE	
		Ledar	~ 2.0 Km	SW	
		Kataha	~ 2.0 Km	ENE	
		Amgondar	~ 2.3 Km	West	
		Abhaipur	~ 2.5 Km	SW	
		Biharia	~ 2.5 Km	NW	
		Benipur	~ 3.5 Km	ENE	
		Shivrajpur	~ 3.5 Km	ESE	
		Janwan	~ 3.5 Km	WNW	
		Malapur	~ 5.0 Km	ENE	
		Shankargarh	~5.0 Km	SE	
j.	Elevation of the project site	148 m to 154 m above mean sea level			
k.	Involvement of Forest land if any.	No Forest Land is involved in the project site.			
l.	Water body exists within the project site as well as study area	Project site:			
		No water body exists within the project site			
		Study area :			
		S. No	Water body	Distance	Direction
		1.	Loni Nala	~4.0 km	SSW
		2.	Pardawan talab	~4.5 km	NNW
		3.	Barasot Nala	~ 4.5 km	NNW
		4.	Baghla Jhil	~6.0 km	NE
		5.	Baghar Nala	~6.5 km	NNW
		6.	Dubha Minor	~6.5 km	NE
		7.	Hardi talab	~7.0 km	SW
		8.	Bundela Nala	~7.0 km	NNW
		9.	Baghla Minor	~7.0 km	NE
		10.	Bachhla Canal	~7.5 km	ESE
		11.	Jhagrabaria Nala	~7.5 km	NE
		12.	Chitauli Nala	~8.0 km	SSW
		13.	Bhatgawan Bandh	~8.0 km	WSW
		14.	Gangiwa Nala	~8.5 km	NW
		15.	Soharwa Minor	~8.5 km	SSE
		16.	Yamuna River	~9.0 km	NW
17.	Semra Bandh	~ 9.0 km	SW		





S. No.	Particulars	Details submitted by PP			
		18.	Arwari Bandh	~9.0 km	East
		19.	Sarauli Nala	~9.5 km	NNE
		20.	Donrhakiya Minor	~9.5 km	South
		21.	Pandua Minor	~9.5 km	North
m.	Existence of ESZ / ESA / national park / wildlife Sanctuary / biosphere Reserve / tiger reserve / elephant reserve etc. if any within the study area	No ESZ, National Park, Wildlife Sanctuary, Tiger/ Elephant Reserve, Biosphere Reserve exist within 10 km radius study area However, the 13 Reserve Forests (RFs) and 02 Protected Forests (PFs) existing within the 10 km radius Study area are as follows: <ul style="list-style-type: none"><li>Reserve Forests- Ledar RF (~0.5 km in South), Khatkari RF (~0.75 km in South), Lakhnauti RF (~1.5 km in North), Lakhanpur (~2.0 km in ESE), Jobai Pahar RF (~2.5 km in NE), RF (~3.0 km in WNW), RF (~3.5 km in WNW), Janwan (~4.0 km in WNW), Baghla (~4.0 km in NE), Channar RF (~6.5 km in SW), Bojh RF (~7.5 km in WSW), Ghatia (~8.5 km in SSW), &amp; Mahrja RF (~9.5 Km in WSW)</li><li>Protected Forests- Barha kotra PF (~5.5 km in NW), Baraha Kathar PF (~6.5 km in SSW).</li></ul>			
n.	Project cost	The capital cost of the project is Rs. 380.23 Crores			
o.	EMP cost	Type	Capital (Rs. in Crores)	Recurring (Rs. in Crores)	
		Proposed	Rs. 37.45 Crores	Rs 0.721 Crores	
p.	Employment opportunity	The employment generation from the proposed project is about 180 persons during construction phase and about 205 persons during operational phase.			
q.	Water and Power requirement	Water – The water requirement for the proposed project is estimated as 200 m3 /day (total fresh water). The power requirement for the proposed project is estimated as 13 MW.			

#### Unit configuration and capacity:

S. No.	Plant Equipment /Facility	Proposed Unit	
		Configuration	Capacity
1.	Cement Mill (VRM) for Cement manufacturing	1 x 450 TPH	2.5 Million TPA
2.	D.G. Sets	1750 (1250 / 500 / 250 / 125) kVA	1750 (1250 / 500 / 250 / 125) kVA
3.	HAG (Coal, Diesel and Biomass based)	1 x 20 M kcal per hour	20 M kcal per hour

5. The EAC, in its meeting held during 26<sup>th</sup> & 29<sup>th</sup> May, 2023, inter-alia, deliberated the following:

- The instant proposal is for setting up of a new 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).
- The proposed cement grinding unit is a category B project and appraised as Category A project due to Interstate Boundary of Uttar Pradesh - Madhya Pradesh falls at a distance of 0.75 km in SSE direction from the proposed project site.



- iii. The EAC, constituted under the provision of the EIA Notification, 2006 comprising Expert Members/domain experts in various fields, examined the proposal submitted by the Project Proponent in desired format along with EIA/EMP reports prepared and submitted by the Consultant accredited by the QCI/ NABET on behalf of the Project Proponent.
- iv. The EAC noted that the Project Proponent has given an undertaking that the data and information given in the application and enclosures are true to the best of his knowledge and belief and no information has been suppressed in the EIA/EMP reports. If any part of data/information submitted is found to be false/ misleading at any stage, the project will be rejected and Environmental Clearance given, if any, will be revoked at the risk and cost of the project proponent.
- v. The Committee noted that the EIA reports are in compliance of the ToR issued for the project, reflecting the present environmental status and the projected scenario for all the environmental components. The Committee deliberated on the proposed mitigation measure towards Air, Water, Noise and Soil pollutions. The Committee suggested that the storage of toxic/explosive raw materials/products shall be undertaken with utmost precautions and following the safety norms and best practices.
- vi. The total project area is 19.88 ha. As on date, Consent from land owner for 18.029 ha (44.5508 Acre) has been obtained out of which company has land Sale Deed for 4.35 ha (10.7630 Acre) and for purchase of remaining 13.67 ha (33.7879 Acre), the company has submitted application on 21<sup>st</sup> April, 2023 to the DM, Prayagraj, UP for exemption under Land Ceiling Act for purchase of more than 5.05 ha (12.5 Acre) of land in UP.
- vii. There are about 64 villages within 10 km radius study area of the project site. The EAC is of the opinion that PP shall strictly implement the environmental safeguard measures proposed to minimise the impact on the habitation of the locals.
- viii. The water requirement for the proposed project is estimated as 200 m<sup>3</sup> /day (total fresh water); which is proposed to be obtained from the Ground water.
- ix. The Committee has found that the baseline data and incremental GLC due to the proposed project and found it satisfactory.
- x. The PP has submitted that Greenbelt will be developed in 6.56 ha which is about 33 % of the total project area of 19.88 ha. Total no. of 16,400 saplings will be planted and nurtured in 6.56 Hectares in three years. The EAC deliberated on the greenbelt action plan along with the budget earmarked and is of the opinion that as committed, the greenbelt shall be completed within two years, with maximum plantation during the 1st year itself.
- xi. The committee deliberated details of carbon foot prints and carbon sequestration study w.r.t. proposed project and found them to be satisfactory.
- xii. The Committee also deliberated on the public hearing issues along with action plan submitted by the proponent to address the issues raised during the public hearing and found it satisfactory.
- xiii. The EAC also deliberated on the submitted written representation of project proponent and found it satisfactory.



- xiv. The EAC deliberated on the proposal with due diligence in the process as notified under the provisions of the EIA Notification, 2006, as amended from time to time and accordingly made the recommendations to the proposal. The Experts Members of the EAC found the proposal in order and recommended for grant of environmental clearance.
- xv. The environmental clearance recommended to the project/activity is strictly under the provisions of the EIA Notification 2006 and its subsequent amendments. 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. The project proponent shall obtain necessary permission as mandated under the Water (Prevention and Control of Pollution) Act, 1974 and the Air (Prevention and Control of Pollution) Act, 1981, as applicable from time to time, from the State Pollution Control Board, prior to construction & operation of the project.
- xvi. The EAC also reviewed the EC conditions (specific and general) pertaining to Industry-I projects and observed that some of the specific conditions stipulated so far in the previously recommended EC projects are common and applicable to most of the projects in general. In view of the same, the General Conditions (in case of EC projects) have been revised through reallocation of these common conditions from specific to General Conditions (in case of EC projects). Accordingly, the instant project is also being stipulated with the modified General conditions.

6. The EAC, in its 32<sup>nd</sup> meeting of Expert Appraisal Committee (Industry-1 Sector) held on 26<sup>th</sup> & 29<sup>th</sup> May, 2023, based on information & clarifications provided by the project proponent and after detailed deliberations **recommended** the instant proposal for grant of Environment Clearance under the provisions of EIA Notification, 2006 subject to stipulation of following specific conditions and general conditions as per the Ministry's Office Memorandum No. 22-34/2018-III dated 9/8/2018 based on project specific requirements

7. 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 Sector) hereby decided to grant **Environment Clearance** for instant proposal of **M/s Jaykaycem (Central) Limited** under the provisions of EIA Notification, 2006 subject to the following specific conditions and general conditions:

**A. Specific conditions:**

- i. The project proponent shall comply with all the environmental protection measures and safeguards proposed in the documents submitted to the Ministry. All the recommendations made in the EIA/EMP in respect of environmental management, and risk mitigation measures relating to the project shall be implemented.
- ii. The project proponent shall utilize modern technologies for capturing of carbon emitted and shall also develop carbon sink/carbon sequestration resources capable of capturing more than emitted. The implementation report shall be submitted to the IRO, MoEF&CC in this regard.
- iii. The PP shall obtain complete acquisition of the proposed land and convert for the industrial purpose as per State Government Rules/Guidelines prior to commencement of project.





- iv. There are about 64 villages within 10 km radius study area of the project site. Project Proponent shall take appropriate environmental safeguard measures to minimise the impact on the habitation of the locals. PP needs to strengthen green belt all around the plant area to reduce the dust pollution. The PP shall also include some of these locations in its environmental monitoring programme.
- v. The water requirement of 200 m<sup>3</sup>/day shall be obtained from ground water after obtaining necessary permission from the Competent Authority. PP shall also explore the possibility of shifting to alternate source of water to reduce its dependency from groundwater.
- vi. Three tier Green Belt shall be developed in at least 33% of the project area in a time period of 1 year with native species all along the periphery of the project site of adequate width and tree density shall not be less than 2500 per ha. Survival rate of green belt developed shall be monitored on periodic basis to ensure that damaged plants are replaced with new plants in the subsequent years. PP shall also develop greenbelt in the form of shelter belt comprising of total of 6 rows of 2x2 m plantation with tall trees & broad leaves with thick canopy along with windshield inside the plant premises to act as green barrier for air pollution & noise levels towards Villages. Compliance status in this regard, shall be submitted to concerned Regional Office of the MoEF&CC.
- vii. 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.
- viii. 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.

## **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. 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. Air quality monitoring and preservation**

- i. 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. PM<sub>10</sub> and PM<sub>2.5</sub> in reference to PM emission, and SO<sub>2</sub> and NO<sub>x</sub> in reference to SO<sub>2</sub> and NO<sub>x</sub> emissions) within and outside the plant area (at least at four locations one within and 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.
- 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.
- 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 stock piles.
- 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.
- xiii. Bag filters shall be cleaned regularly and efficiency of bag filter system shall be monitored at regular intervals.
- 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.
- xv. The particulate matter emissions from the process stacks shall be less than 30 mg/Nm<sup>3</sup> and measures shall be undertaken as per the submitted action plan. Efficient Air monitoring equipment shall be installed.
- xvi. Following additional arrangements to control fugitive dust shall be provided:
  - a. Fog / Mist Sprinklers at all on bulk raw material storage area (at the transfer points).
  - b. Proper covered vehicle shall be used while transport of materials.
  - c. Wheel washing mechanism shall be provided in entry and exit gates with complete recirculation system.



- xvii. Provide Low NO<sub>x</sub> burners as primary measures and SCR /NSCR technologies as secondary measure to control NO<sub>x</sub> 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.
- xx. DeSO<sub>x</sub> system shall be provided dry type. NO<sub>x</sub> level shall be maintained below 600 mg/Nm<sup>3</sup> by using best available technology.
- xxi. Petcoke dosing shall be controlled automatically to control SO<sub>2</sub> 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.
- xxiii. Pollution control system in the cement plant shall be provided as per the CREP Guidelines of CPCB.

### **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 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 stock pile 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.
- v. Water meters shall be provided at the inlet to all unit processes in the plants.
- 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.
- 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. Rain water harvesting shall be implemented to recharge/harvest water as per the action plan submitted in the EIA/EMP report.

### **IV. Noise monitoring and prevention**

- i. 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.



- 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.

## **V. Energy Conservation measures**

- i. 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;
- ii. Provide LED lights in their offices and residential areas.
- iii. The project proponent make 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.
- iv. Maximize utilization of fly ash, slag and sweetener in cement blend as per BIS standards.
- v. Maximize utilization of alternate fuels and Co-processing to achieve best practice norms.

## **VI. Waste management**

- i. Used refractories shall be recycled as far as possible.
- ii. Oil Collection pits shall be provided in oil cellars to collect and reuse/recycle spilled oil.
- iii. Kitchen waste shall be composted or converted to biogas for further use.
- iv. 100% utilization of fly ash shall be ensured.
- 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.
- vi. A proper action plan must be implemented to dispose of the electronic waste generated in the industry.

## **VII. Green Belt**

- i. 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.
- 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.
- iii. Greening and Paving shall be implemented in the plant area to arrest soil erosion and dust pollution from exposed soil surface.





## **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. 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.

## **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. 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 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 report 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. 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. Action plan for developing connecting and internal road in terms of MSA as per IRC guidelines shall be implemented
- vi. 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.
- 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.
- ix. 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.
- 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.

8. The Ministry reserves the right to stipulate additional conditions, if found necessary at subsequent stages and the project proponent shall implement all the said conditions in a time bound manner. The Ministry may revoke or suspend the environmental clearance, if implementation of any of the above conditions is not found satisfactory.

9. Concealing factual data or submission of false/fabricated data and failure to comply with any of the conditions mentioned above may result in withdrawal of this clearance and attract action under the provisions of the Environment (Protection) Act, 1986.

10. Any appeal against this environmental clearance 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.

11. The above conditions shall be enforced, *inter-alia* under the provisions of the Water (Prevention & Control of Pollution) Act, 1974, the Air (Prevention & Control of Pollution) Act, 1981,



the Environment (Protection) Act, 1986, Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016 and the Public Liability Insurance Act, 1991 along with their amendments and Rules and any other orders passed by the Hon'ble Supreme Court of India / High Courts and any other Court of Law relating to the subject matter.

12. This issues with approval of the competent authority.



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**Encl. as above at Annexure –I**

**Copy to: -**

1. The Secretary, Department of Environment, Government of Uttar Pradesh, Sachivalaya, Bapu Bhawan, Adjacent to Vidhan Sabha, Lucknow – 226001.
2. The Director General of Forest, Ministry of Environment, Forest and Climate Change, New Delhi
3. The Deputy Director General of Forests (C), Integrated Regional Officer, Ministry of Environment, Forest and Climate Change, Kendriya Bhawan, 5th Floor, Sector “H”, Aliganj, Lucknow – 226020
4. The Chief Wildlife Warden, Government of Uttar Pradesh, 17, Rana Pratap Marg, Lucknow, U.P.
5. The Chairman, Central Pollution Control Board Parivesh Bhavan, CBD-cum-Office Complex, East Arjun Nagar, Delhi -32
6. Chairman, Uttar Pradesh State Pollution Control Board, Building. No. TC-12V. Vibhuti Khand, Gomti Nagar. Lucknow-226 010
7. Member Secretary, Uttar Pradesh State Pollution Control Board, PICUP Bhawan, 3rd Floor, B-Block, Vibhuti Khand, Gomti Nagar Lucknow – 226 010.
8. The Member Secretary, Central Ground Water Authority, Jamnagar House, 18/11, Man Singh Road Area, New Delhi, Delhi 110001
9. The District Collector, Prayagraj District, Uttar Pradesh
10. The Director, Monitoring Cell, MoEFCC, New Delhi
11. Guard File/Monitoring File/Website/Record File/Parivesh Portal.



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Table: Action Plan as per Ministry's O.M. dated 30/09/2020

S. No.	Physical Targets	Budget	Budget (Rs. in lakhs)			
		(Rs. in lakhs)	01 <sup>st</sup> Year	02 <sup>nd</sup> Year	03 <sup>rd</sup> Year	04 <sup>th</sup> Year
A.	Employment Generation					
1.	Construction of Vocational training centre for Self-employment oriented training in trades of - Sewing, Dress making, Computer, Beautician, House wiring, Carpentry & Plumbing	75	25 (Village Gadha)	25 (Village Abhaipur)	25 (Village Ledar)	--
2.	Capacity building of farmers to enhance productivity at Village Gadha, Abhaipur, and Ledar	15	5 (30 farmers/ covering all 3 villages)	5 (30 farmers/ covering all 3 villages)	5 (30 farmers/ covering all 3 villages)	--
3.	Women empowerment centre by providing Income generation training in Farm and Non-Farm activity.	30	10 (Village Gadha)	10 (Village Abhaipur)	10 (Village Ledar)	--
B.	Education Sector					
1.	Renovation of School Buildings (Minor repairing of building, whitewashing, repairing of gates & windows and rooftop repairing) at 05 Villages	90	25 (Village Ledar)	25 (Village Gadha)	25 (Village Abhaipur)	15 (Village Shankargarh)
2.	RO/ water filter and Water Cooler (02 each school & village) and Furniture (300 Students in each schools)	60	10 (Village Ledar)	10 (Village Shankargarh)	20 (Village Gadha & New Bharat Anusuhit Janjati Sewa Sansthan H.S. Gadha Katra)	20 (Govt. Primary School Mauhara Shankargarh) & (Primary School Amgondar, Upper Primary School Amgondar)
3.	Computer (45 Nos.) will be provided to the nearby three schools (15 each school) of nearby villages	30	10 (Computers to 20 students in Govt. Primary School Mauhara Shankargarh)	10 (Computers to 20 students in Primary School Amgondar, Upper)	10 (Computers to 20 students in Primary School Taktai,	--



S. No.	Physical Targets	Budget	Budget (Rs. in lakhs)			
		(Rs. in lakhs)	01 <sup>st</sup> Year	02 <sup>nd</sup> Year	03 <sup>rd</sup> Year	04 <sup>th</sup> Year
			arh)	Primary School Amgond ar)	Primary School Abhaipur)	
4.	Development of Smart classes/ e-classrooms for quality education in nearby three schools	15	5 (Govt. Primary School Mauhara Shankarg arh )	5 (Primary School Amgond ar, Upper Primary School Amgond ar )	5 (Primary School Taktai, Primary School Abhaipur)	--
5.	Library and Reading Rooms furniture and books in existing school	15	5 (Village Gadha)	5 (Village Ledar)	5 (Village Abhaipur)	--
6.	Providing Sports Kit to schools (Cricket kit / Table Tennis / basketball / badminton kit etc)	3	1 (Govt. Primary School Mauhara Shankarg arh)	1 (Primary School Amgond ar, Upper Primary School Amgond ar)	0.5 (Primary School Abhaipur)	0.5 (Primary School Taktai)
C.	Health Sector					
1.	1 ambulance will be provided for all 3 villages and Renovation of existing dispensary with medical equipment for Primary health centre and medical health camp.	50	30 (Village Gadha) (Ambulance and Dispensary)	10 (Village Abhaipur)	10 (Village Ledar)	--
D.	Drinking water and rain water harvesting					
1.	Hand Pump (04 each village) in consultation with Administration	70	10 (Village Ledar)	10 (Village Abhaipur)	20 (Villages Chipiya & Gadha)	30 (Villages Shankargarh, Bihariya & Shivrajpur)
2.	Construction of rainwater harvesting structure in nearby Govt School	10	2 (Upper Primary School Gadha Katra)	4 (Primary School Amgond ar, Upper Primary	2 (Primary School Abhaipur)	2 (Primary School Taktai)





S. No.	Physical Targets	Budget	Budget (Rs. in lakhs)			
		(Rs. in lakhs)	01 <sup>st</sup> Year	02 <sup>nd</sup> Year	03 <sup>rd</sup> Year	04 <sup>th</sup> Year
				School Amgondar)		
E.	Infrastructure Development					
1.	Installation of solar electric lights in nearby 4 villages (5 each) & 3 schools (2 each)	6	0.5 (Village Ledar)	0.5 (Village Shankargarh)	0.5 (Village Bihariya)	4.5 (Upper Primary School Gadha Katra, Govt. Primary School Mauhara Shankargarh, Govt. Primary School Taktai, Primary School Abhaipur)
2.	Construction of community toilet in public places	30	10 (Village Ledar)	10 (Village Gadha)	10 (Village Abhaipur)	--
3.	Creating Model Anganwadi	30	10 (Village Ledar)	10 (Village Gadha)	10 (Village Abhaipur)	--
F.	Environment Management					
1.	Plantation in nearby villages (Total 6000 saplings)	12	2 (Villages Ledar)	2 (Village Gadha)	4 (Villages Abhaipur and Bihariya)	4 (Villages Shankargarh & Janwa)
2.	Providing tools & facilities for organic farming in the nearby villages	30	5 (Villages Ledar)	5 (Village Gadha)	5 (Village Abhaipur)	15 (Villages Shankargarh, Janwa and Bihariya)
<b>Total</b>		<b>571</b>	<b>165.5</b>	<b>147.5</b>	<b>167</b>	<b>91</b>
<p><i>Note: *The above action plan will be implemented during project implementation phase. Zero date will start from the date of construction start for the proposed project.</i></p> <p><i>**The activities given in the above table are excluding the Pollution Control and mitigation measures which are included in EMP Cost [i.e. Capital Cost: Rs. 37.45 Crores &amp; Annual Recurring Cost: Rs. 72.1 Lakhs/annum]</i></p>						



S. No.	Physical Targets	Budget	Budget (Rs. in lakhs)			
		(Rs. in lakhs )	01 <sup>st</sup> Year	02 <sup>nd</sup> Year	03 <sup>rd</sup> Year	04 <sup>th</sup> Year
***Villages can be interchanged as per situation demand. Activities may be changed as per situation and community requirement						

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