



**File No: J- 11011/189/2006- IA- II(I)**  
**Government of India**  
**Ministry of Environment, Forest and Climate Change**  
**IA Division**  
**\*\*\***



Date **02/11/2024**



To,

M/s. Ambuja Cement Limited  
228. Udyog Vihar, Phase-I Gurgaon, , GURUGRAM, HARYANA, , 122016  
Email: anurag.solankey@ambujacement.com

**Subject:** **Proposed Expansion of Integrated Cement Plant-Clinker (2.4 million TPA to 3.5 million TPA), Cement (Existing 3.6 million TPA-No change), WHRB (7.5 MW to 12 MW) and CPP ( Existing 18 & 15 MW-No change), by Installation of new Line-II (Rotary Kiln 2800 TPD) and new Fly Ash Dryer 1000 TPD by M/s. Ambuja Cement Limited, located at Village Rabriyawas, Tehsil Jaitaran, District Pali, Rajasthan- Grant of Environmental Clearance-Reg**

**Sir/Madam,**

This is in reference to your application submitted to MoEF&CC vide proposal number IA/RJ/IND1/416478/2023 dated 21/08/2024 for grant of prior Environmental Clearance (EC) to the proposed project under the provision of the EIA Notification 2006 and as amended thereof.

2. The particulars of the proposal are as below :

(i) EC Identification No.	EC23A1101RJ5973459N
(ii) File No.	J- 11011/189/2006- IA- II(I)
(iii) Clearance Type	Fresh EC
(iv) Category	A
(v) Project/Activity Included Schedule No.	3(b) Cement plants ,3(b) Cement plants ,1(d) Thermal Power Plants
(vi) Sector	Industrial Projects - 1 Proposed Expansion of Integrated Cement Plant-Clinker (2.4 million TPA to 3.5 million TPA), Cement ( Existing 3.6 million TPA-No change), WHRB (7.5 MW to 12 MW) and CPP ( Existing 18 & 15 MW-No change), by Installation of new Line-II (Rotary Kiln 2800 TPD) and new Fly Ash Dryer 1000 TPD at Village Rabriyawas, Tehsil Jaitaran, District Pali, Rajasthan.
(vii) Name of Project	
(viii) Name of Company/Organization	Ambuja Cement Limited
(ix) Location of Project (District, State)	PALI, RAJASTHAN

(x) Issuing Authority

MoEF&CC

(xi) Applicability of General Conditions as per  
EIA Notification, 2006

No

3. The proposed project activity is listed at S. No. 3(b) Cement Plants and 1 (d) Thermal Power Plants under Category “A” of the schedule of the EIA Notification, 2006 and being appraised at Central Level.

4. The instant proposal was considered in the 66th EAC Meeting held during 23rd -25th September, 2024 wherein after detailed deliberations, the committee recommended the proposal for grant of Environment Clearance under the provisions of EIA Notification, 2006 subject to the stipulation of specific conditions and general conditions. The minutes of the meeting and all the project documents are available on PARIVESH portal which can be accessed at <https://parivesh.nic.in>.

5. 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 1 Sector) are at **Annexure-II**.

6. The Unit configuration and capacity of the proposed project is at **Annexure-III**.

7. The EAC, in its 66th EAC Meeting held during 23rd -25th September, 2024, inter-alia, deliberated the following:

i. The instant proposal is for expansion of Integrated Cement Plant-Clinker (2.4 million TPA to 3.5 million TPA), Cement (Existing 3.6 million TPA-No change), WHRB (7.5 MW to 12 MW) and CPP (Existing 18 & 15 MW- No change), by Installation of new Line-II (Rotary Kiln 2800 TPD), New Fly Ash Dryer 1000 TPD.

ii. Initially, DLF Cement Ltd. received EC for a cement plant with a capacity of 1.4 MTPA from MOEF&CC vide letter no. No. J-11011/35/94-IA-II (I) on dated 14.09.1995. An expansion was granted by MOEF&CC vide letter no. No. J-J-11011 / 189/ 2006-IA-II(I) dated 31.08.2006 & Amended 26.09.2006 to increase clinker production from 5000 to 7000 TPD, cement plant capacity from 1.80 to 3.60 MTPA, and an 18 MW captive power plant. Another expansion was obtained from MOEF&CC vide letter no. No J-11011/54/2010-IA-II (I) 29/03/2012 to further increase clinker production and power plant capacity, and add new limestone mines, but only the limestone mining and a portion of the power plant expansion were executed. The EC was later transferred from Gujarat Ambuja Cement Ltd. to Ambuja Cements Ltd. on 10.04.2020. That same year, an amendment was issued on 23.06.2020 for the installation of a steel silo, electronic packer, wagon tippler, and railway siding enhancements.

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 EAC also took into consideration the drone survey of the project site and kml file on the Google Earth presented by the project proponent along with DSS of the project site on PARIVESH and made following deliberations accordingly.

vii. The total land area is 470.74 Ha including plant, associated facilities and township. The land is already converted for industrial use. The proposed expansion will be carried out within the existing plant premises. No additional land is required for the proposed expansion. PP has further reported that the right of way (ROW) of the railway sidings is 116 Ha which was not mentioned in the earlier EC accorded, as the land used for ROW was outside the existing plant area. There is no additional land required for the proposed expansion, but the land (ROW) used in the railway siding which is under the ownership of the Ambuja Cements Limited is desired to be added in the EC now. Thus, the land area is now 354.74 Ha to 470.74 Ha.

viii. PP has reported that instant project is an inter-linked project with limestone mines, having valid EC. a) RAS II Limestone Mine (Area: 803 ha), capacity of 3.6 million TPA at Village: Balara, Rabriyawas, Ras, Tehsil-Jaitaran, District-

Pali Rajasthan. EC granted by vide letter no. J-11015/148/2006 - IA- II (M) Dated 10.10.2007 and RAS I Limestone Mine (Area: 183.53 ha), capacity of 2.8 Million TPA at Rabriyawas, Tehsil-Jaitaran, District-Pali Rajasthan, EC has been granted by vide letter no. J-11015/82/2017-IA.II (M) Dated 29.06.2022. The EAC opined that all the necessary permissions shall be obtained for the interlinked projects to meet the raw material security for the instant proposed project. ix. As reported, Ballupura is at a distance of 0.1 km in NNW of the project site along with other sensitive areas within the study area of the project site. The EAC opined that proponent shall take appropriate environmental safeguard measures to minimise the impact on the habitation of the locals. The project proponent 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.

x. As reported, there are water bodies within the study area of the project site. The EAC opined that a robust and full proof Drainage Conservation scheme to protect the natural drainage and its flow parameters; along with Soil conservation scheme and multiple Erosion control measures shall be implemented.

xi. The total one time water requirement after proposed expansion project will be 2390 KLD (Daily Fresh water 2245 KLD and recycle 145 KLD) which will be met from Ground Water. The EAC deliberated on the water requirement is of the opinion that PP shall obtain necessary permission from the Competent Authority in this regard.

xii. The Committee has deliberated on the baseline data and incremental GLC due to the proposed project and observed that PM2.5 and PM10 values are recorded on a higher side. The EAC opined that PP shall undertake stringent measures to minimise the levels of PM2.5 and PM10.

xiii. It is reported that there are two schedule-I species (Peacock & Indian Monitor Lizard). Conservation plan has been approved from Chief Wildlife Warden (CWLW), Aryan Bhawan, Jhalana Industrial Area, Jaipur, Rajasthan vide letter no. F11(463) Vikas-11/mu.v.ji.pr. /2022- 2023/146: dated 12.04.2024. The budget for the Conservation plan is Rs. 7.75 Cr (1% of the project cost as per the Rajasthan Guidelines). 20% amount of the Rs. 1.55 Cr has been deposited on 19.01.2024. The EAC opined that Wildlife Conservation Plan shall be strictly implemented as per the recommendations made in the Plan.

xiv. 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.

xv. The PP has submitted that existing green belt has been developed in 143 ha area which is about 40% of the total project area of 357.74 ha with total sapling of 149735 trees (total saplings 202187 & survival rate 85%). With the addition of railway siding, which falls outside the plant area, total project area is now 470.74 ha. Proposed additional greenbelt will be developed in 12.35 ha which is about 2.62% of the total project area. Thus, total of 155.35 ha area (33% of total project area) will be developed as greenbelt. Total no. of 30875 saplings is proposed to be planted in area of 12.4 Ha. in upcoming 4 years. The EAC deliberated on the greenbelt layout plan and is of the opinion that greenbelt shall be completed within a period of 1 year.

xvi. The committee deliberated on details of carbon footprints and carbon sequestration study w.r.t. proposed project and found them to be satisfactory. The Committee discussed the decarbonisation plan of the project, and the Group as a whole, in detail. In response to specific queries by the EAC, the PP submitted decarbonisation strategy and year wise timebound action plan for carbon reduction. The Committee took on record the PP's submissions, which are mentioned in preceding section.

xvii. The EAC deliberated on the written submission of project proponent and found it satisfactory.

xviii. 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.

xix. 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.

xx. 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.

8. The EAC (Industry-1 Sector), in its 66th EAC Meeting held during 23rd -25th September, 2024, based on information

& clarifications provided by the project proponent and after detailed deliberations **recommended** the proposal for grant of Environment Clearance subject to stipulation of specific and general EC conditions as detailed in the point below.

9. 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. Ambuja Cement Limited** under the provisions of EIA Notification, 2006 subject to the following specific conditions and general conditions (**Annexure-I**)

10. 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.

11. 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.

12. 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.

13. 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.

14. This issues with approval of the competent authority.

(Dinesh Runiwal)  
Scientist 'F'/Director  
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#### **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. Chief Wildlife Warden, Govt. of Rajasthan, Van Bhawan, Vaniki Path, Jaipur -302005
5. Chairman, Rajasthan State Pollution Control Board, 4, Institutional area, Jhalana, Doongri, Jaipur.
6. Member Secretary, Central Ground Water Authority, A-2, W3, Curzon Road Barracks, K.G. Marg, New Delhi-110001.
7. District Collector, Pali District, Rajasthan.
8. Guard File/Record File/Monitoring File.
9. MoEF&CC website

**Annexure 1**

**Specific EC Conditions for (Cement Plants)**

**1. Specific**

S. No	EC Conditions
1.1	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.
1.2	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.
1.3	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.
1.4	All the necessary permissions related to the interlinked project (Limestone Mines) shall be obtained to meet the raw material security for the instant proposed cement plant project.
1.5	As reported, Ballupura is at a distance of 0.1 km in NNW of the project site along with other sensitive areas within the study area of the project site. Proponent shall take appropriate environmental safeguard measures to minimise the impact on the habitation of the locals. The project proponent 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.
1.6	As reported, there are water bodies within the study area of the project site. A robust and full proof Drainage Conservation scheme to protect the natural drainage and its flow parameters; along with Soil conservation scheme and multiple Erosion control measures shall be implemented.
1.7	Total water requirement is 2390 KLD (Daily Fresh water 2245 KLD and recycle 145 KLD) which will be met from Ground Water. PP shall obtain necessary permission from the Competent Authority in this regard.
1.8	PP shall undertake stringent measures to minimise the levels of PM2.5 and PM10.
1.9	Three tier Green Belt shall be developed in atleast 33% of the project area, in a period of in a period of 1 year, 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 sensitive areas nearby project site. Compliance status in this regard, shall be submitted to concerned Regional Office of the MoEF&CC.

S. No	EC Conditions
1.10	The PP shall undertake plantation, in compliance to MoEFCC OM dated 24.07.2024, in the earmarked 33% greenbelt area as a part of tree plantation campaign 'Ek Ped Maa Ke Naam' Campaign and the details of the same shall be uploaded on MeriLiFE portal at ( <a href="https://merilife.nic.in">https://merilife.nic.in</a> )
1.11	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. 7.399 Crores shall be strictly implemented and progress shall be submitted to the Regional Office of MoEF&CC.
1.12	PP shall implement the time-targeted decarbonisation program, and shall submit update on the specific reduction targets to the MoEFCC RO on annual basis.
1.13	The project proponent shall undertake village adoption programme and prepare and implement the action plan to develop them into a model village.
1.14	The recommendations of the approved Site-Specific 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.
1.15	Wagon tippler and additional silo are recommended with dust extraction system at all the drop points.
1.16	CO sensors shall be installed in all units which generate CO gas
1.17	PP shall undertake soil fertility monitoring, through a State Govt. accredited or authorised agency, every six months as part of the post-project monitoring.

#### Standard EC Conditions for (Cement plants)

#### 1. Statutory Compliance

S. No	EC Conditions
1.1	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.
1.2	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.

#### 2. Air Quality Monitoring And Preservation

S. No	EC Conditions
2.1	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.
2.2	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 three outside the plant area at an angle of 120° each), covering upwind and downwind directions.
2.3	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.
2.4	Sampling facility at process stacks shall be provided as per CPCB guidelines for manual monitoring of emissions.
2.5	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.
2.6	The project proponent shall provide leakage detection and mechanized bag cleaning facilities for better maintenance of bags.
2.7	Sufficient number of mobile or stationery vacuum cleaners shall be provided to clean plant roads, shop floors, roofs, regularly.
2.8	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.
2.9	The project proponent shall provide primary and secondary fume extraction system at all heat treatment furnaces.
2.10	Wind shelter fence and chemical spraying shall be provided on the raw material stock piles.
2.11	Design the ventilation system for adequate air changes as per prevailing norms for all tunnels, motor houses, Oil Cellars.
2.12	Pollution control system in the plant shall be provided as per the CREP Guidelines of CPCB.
2.13	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

S. No	EC Conditions
	and operated regularly inside the project premises and also in the surrounding villages to arrest suspended dust in the atmosphere.
2.14	Bag filters shall be cleaned regularly and efficiency of bag filter system shall be monitored at regular intervals.
2.15	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.
2.16	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.
2.17	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) like Iron Ore, Coal and for Fly Ash and similar solid waste storage areas. 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.

### 3. Air Quality Monitoring And Preservation In Case Of Integrated Cement Plants

S. No	EC Conditions
3.1	Provide Low NO <sub>x</sub> burners as primary measures and SCR /NSCR technologies as secondary measure to control NO <sub>x</sub> emissions.
3.2	The emission norms applicable for the cement plant shall be adhered to.
3.3	Dioxin and Furan monitoring shall be carried out once in six months at cement kiln stack.
3.4	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.
3.5	Petcoke dosing shall be controlled automatically to control SO <sub>2</sub> emission from chimney within the prescribed limits.
3.6	PP shall identify the Source of fluoride emissions and action plan to mitigate the same shall be implemented.
3.7	Pollution control system in the cement plant shall be provided as per the CREP Guidelines of CPCB.
3.8	During operational phase at Captive Power Plant, Action Plan to monitor coke/coal dust exposures in different process plants using personal and area air samplers and to compare with permissible limits as per Indian Factories Act, 1948 shall be implemented.
3.9	The coal dust should be monitored at coal unloading, crushing, furnace areas and should be within 2 mg/m <sup>3</sup> , respirable dust fraction containing less than 5% quartz as per Indian Factories Act, 1948.

S. No	EC Conditions
3.10	CO sensors with alarms must be installed in the Plant at strategic locations.

#### 4. Water Quality Monitoring And Preservation

S. No	EC Conditions
4.1	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.
4.2	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.
4.3	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.
4.4	Water meters shall be provided at the inlet to all unit processes in the steel plants.
4.5	The project proponent shall make efforts to minimise water consumption in the steel plant complex by segregation of used water, practicing cascade use and by recycling treated water.
4.6	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.
4.7	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.
4.8	Rain water harvesting shall be implemented to recharge/harvest water as per the action plan submitted in the EIA/EMP report.
4.9	Air Cooled condensers shall be used in the captive power plant.

#### 5. Noise Monitoring And Prevention

S. No	EC Conditions
5.1	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.
5.2	The ambient noise levels should conform to the standards prescribed under E(P)A Rules, 1986 viz.

S. No	EC Conditions
	75 dB(A) during day time and 70 dB(A) during night time.
5.3	PP shall identify extreme hot areas through heat stress survey as well as noise monitoring within process plants to ensure that workers not exposed above 90 dBA levels as per Factories Act, 1948

## 6. Energy Conservation Measures

S. No	EC Conditions
6.1	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;
6.2	Provide LED lights in their offices and residential areas.

## 7. Energy Conservation Measures In Case Of Integrated Cement Plants

S. No	EC Conditions
7.1	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.
7.2	Maximize utilization of fly ash, slag and sweetener in cement blend as per BIS standards.
7.3	Maximize utilization of alternate fuels and Co-processing to achieve best practice norms.
7.4	Waste heat recovery system shall be provided for kiln and cooler.

## 8. Waste Management

S. No	EC Conditions
8.1	Oil Collection pits shall be provided in oil cellars to collect and reuse/recycle spilled oil.
8.2	Kitchen waste shall be composted or converted to biogas for further use.
8.3	100% utilization of fly ash shall be ensured. All the fly ash shall be provided to cement and brick manufacturers for further utilization and Memorandum of Understanding in this regard shall be submitted to the Ministry's Regional Office.
8.4	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 <a href="https://cpcb.nic.in/technical-guidelines-3/">https://cpcb.nic.in/technical-guidelines-3/</a> . 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

S. No	EC Conditions
	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.
8.5	A proper action plan must be implemented to dispose of the electronic waste generated in the industry.

## 9. Green Belt

S. No	EC Conditions
9.1	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.
9.2	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.
9.3	Greening and Paving shall be implemented in the plant area to arrest soil erosion and dust pollution from exposed soil surface.

## 10. Public Hearing And Human Health Issues

S. No	EC Conditions
10.1	Emergency preparedness plan based on the Hazard identification and Risk Assessment (HIRA) and Disaster Management Plan shall be implemented.
10.2	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.
10.3	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.
10.4	Occupational health surveillance of the workers shall be done on a regular basis and records maintained.

## 11. Environment Management

S. No	EC Conditions
11.1	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)

S. No	EC Conditions
	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.
11.2	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 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.
11.3	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.
11.4	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.
11.5	The health of the soil in the vicinity of the Plant (5 K.M. radius) must be monitored periodically (once a year) and reported to the IRO.

## 12. Miscellaneous

S. No	EC Conditions
12.1	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.
12.2	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.
12.3	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.
12.4	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.
12.5	Action plan for developing connecting and internal road in terms of MSA as per IRC guidelines shall be implemented
12.6	The project proponent shall submit six-monthly reports on the status of the compliance of the

S. No	EC Conditions
	stipulated environmental conditions on the website of the ministry of Environment, Forest and Climate Change at environment clearance portal.
12.7	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.
12.8	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.
12.9	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.
12.10	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.
12.11	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.
12.12	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).
12.13	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.
12.14	The Ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.
12.15	The Ministry reserves the right to stipulate additional conditions if found necessary. The Company in a time bound manner shall implement these conditions.
12.16	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.
12.17	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.

#### **Additional EC Conditions**

NA

S.No	Particulars	Details			
a.	Terms of Reference for undertaking EIA study	13.10.2021			
b.	Period of baseline data collection	October 2021, November 2021 and December 2021			
c.	Date of Public Consultation	05.05.2022			
d.	Action plan to address the PH issues	Please refer <b>Annexure-IV</b>			
e.	Location of the project	located at Village Rabriyawas, Tehsil Jaitaran, District Pali, Rajasthan			
f.	Total land	No additional land is required for the proposed expansion. The total land area is 470.74 Ha including plant, associated facilities and township. The land is already converted for industrial use			
g.	Land acquisition details as per MoEF&CC O.M. dated 7/10/2014	The proposed expansion will be carried out within the existing plant premises. No additional land is required for expansion of proposed project.			
h.	Existence of habitation & involvement of R&R, if any	Status of R&R: Not applicable as project is already existing and converted for industrial use.			
i.	Elevation of the project site	Highest – 356 MSL; Lowest – 339 MSL.			
j.	Involvement of Forest land if any.	There is no forest land in the project site.			
k.	Water body exists within the project site as well as study area	<b>Sr. No</b>	<b>Name of Water Bodies</b>	<b>Distance (Km) (From Project boundary)</b>	<b>Direction</b>
		1	Lilri Nadi	3.24	E
		2	Pond Near Village Balara	4.17	W
		3	Luni Nadi	12.86	NW
		4	Sukri Nadi	10.95	S
l.	Existence of ESZ / ESA / national park / wildlife Sanctuary / biosphere Reserve / tiger reserve / elephant reserve etc. if any within the study area	<b>Study area:</b> No national park/wildlife sanctuary/biosphere reserve/tiger reserve/elephant reserve and Migratory Corridors etc. are reported to be located in the core and buffer zone of the project.			

S.No	Particulars	Details																												
		<p><b>List of Reserved and protected forests in study area:</b> The details are given in the following table.</p> <table><tr><th>Sr. No</th><th>Name of Forest</th><th>Distance (Km) (From Project boundary)</th><th>Direction</th></tr><tr><td>1</td><td>Ras P.F.</td><td>1.78</td><td>SE</td></tr><tr><td>2</td><td>Amarpura Lambiya Jod P.F.</td><td>5.71</td><td>NW</td></tr><tr><td>3</td><td>Kalulambiya Jod P. F</td><td>4.42</td><td>NW</td></tr><tr><td>4</td><td>Babra Giri Block R.F.</td><td>11.36</td><td>SE</td></tr><tr><td>5</td><td>Salarmal Block R.F.</td><td>13.39</td><td>SE</td></tr><tr><td>6</td><td>Gopalpura PF</td><td>10.63</td><td>SE</td></tr></table>	Sr. No	Name of Forest	Distance (Km) (From Project boundary)	Direction	1	Ras P.F.	1.78	SE	2	Amarpura Lambiya Jod P.F.	5.71	NW	3	Kalulambiya Jod P. F	4.42	NW	4	Babra Giri Block R.F.	11.36	SE	5	Salarmal Block R.F.	13.39	SE	6	Gopalpura PF	10.63	SE
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m.	Project cost	The capital cost of the proposed project is Rs. 2290.4856 Crores																												
n.	EMP cost	<table><tr><th>EMP</th><th>Capital (Rs. in Crores)</th><th>Recurring (Rs. in Crores)</th></tr><tr><td></td><td>31.7351 Crores</td><td>3.197 Crores</td></tr></table>	EMP	Capital (Rs. in Crores)	Recurring (Rs. in Crores)		31.7351 Crores	3.197 Crores																						
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	31.7351 Crores	3.197 Crores																												
o.	Employment opportunity	The employment generation from the proposed project is 100																												
p.	Water and Power requirement	Total water requirement will be 2390 m <sup>3</sup> /day Power – Total power requirement for the proposed project will be around 50.1 MW																												
q.	CPA/SPA	The project does not fall under CPA/SPA.																												
r.	Details of inter-linked projects	<p>The interlinked projects are limestone mines, having valid EC. Details is given as below:</p> <p>(a) RAS II Limestone Mine (Area: 803 ha) ,capacity of <b>3.6 million TPA</b> at Village: Balara, Rabriyawas, Ras, Tehsil-Jaitaran, District-Pali Rajasthan. EC granted by vide letter no. J-11015/148/2006 - IA- II (M) Dated 10.10.2007.</p> <p>(b) RAS I Limestone Mine (Area: 183.53 ha), capacityof <b>2.8 Million TPA</b> at Rabriyawas, Tehsil-Jaitaran, District-Pali Rajasthan, EC has been granted by vide letter no. J-11015/82/2017-IA.II (M) Dated 29.06.2022.</p>																												

The unit configuration and capacity of existing and proposed project is given as below:

Product	Existing (MMTPA)	Proposed (MMTPA)	Total After Expansion (MMTPA)
Clinker	2.4 (Line-I)	1.1 (Line-II)	3.5
Cement (OPC, PPC, PSC, & Composite Cement and microfine OPC)	3.6	0	3.6
<b>Power Generation (MW)</b>			
CPP	18 & 15	0	33
WHRB	7.5	4.5	12
Solar Power Plant	5.1	0	5.1
Synthetic Gypsum (TPD)	1000	0	1000
Fly Ash Dryer (TPD)	-	1000	1000

## Action plan as per MoEF&amp;CC O.M. dated 30/09/2020:

S . N o	Concerns raised during the Public Hearing	Physical activity to be done	Year of implementation			Total Expenditure (Rs. in Crores)
			1 <sup>st</sup> Year	2 <sup>nd</sup> Year	3 <sup>rd</sup> Year	
1	Skill Development for employment generation	Gram Panchayat Rabriyawas, Balada, Amarpura, Ras, Bagatpura Mandi Chauraha, Sewariya, Kurki, Kekindra, Bhoomballiya, Paliyawas	(200Nos)	(350 Nos)	(350 Nos)	
		<b>Budget</b>	<b>0.50</b>	<b>0.50</b>	<b>0.50</b>	<b>1.5</b>
2	Road Strengthening/infrastructure development	Development work of Gaushala	Kurki and Rabriyawas	Rabriyawas and Kotariya	Bakhtawarpura, and Kotariya	
		Hospital Building repairing work and equipment support	Rabriyawas, Balada & Ras	Dhaneriya	-	
		School Building Repair	Rabriyawas	Kotariya and Kurki	Kurki	
		Causeway Construction	100m length & 6m width) at Kotariya village	Kotariya village (length 30m)	Balada	
		CC Road	Kotariya village (50m length and 5m width)	-	-	

S . N o	Concerns raised during the Public Hearing	Physical activity to be done	Year of implementation			Total Expenditure (Rs. in Crores)
			1 <sup>st</sup> Year	2 <sup>nd</sup> Year	3 <sup>rd</sup> Year	
		Hathayi Construct ion work	Guda village-1	-	-	
		Communi ty Infrastruc ture	Rabriyaw a s village-2	-	Yatri Pratikshala y at Sewariya village	
		Strengthe ning of Ghat	Ghat (Pond) at Rabriyaw a s village-1	-	-	
		Construct ion of gravel Road	Gravel Road at Sewariya and Rabriyaw a s village (1.5km)	Dhaneriya and Kotariya village (length 3KM)	Sewariya and Bakhtawar pura and Rabriyaw a s (length 3 KM)	
		<b>Budget</b>	<b>1.4</b>	<b>1.2</b>	<b>1.0</b>	<b>3.6</b>
3	Drinking water facilities	Individual RRWHS @ Gram Panchayat Rabriyaw as, Balada, Amarpura , Ras, Bagatpura Mandi Chauraha, Sewariya, Kurki, Kekindra, Bhoomba liya, Paliyawas	150 Nos	150 Nos	150 Nos	
		Communi ty RRWHS @ Gram Panchayat Rabriyaw as,	3 Nos	3 Nos	3 Nos	

S . N o	Concerns raised during the Public Hearing	Physical activity to be done	Year of implementation			Total Expenditure (Rs. in Crores)
			1 <sup>st</sup> Year	2 <sup>nd</sup> Year	3 <sup>rd</sup> Year	
		Balada, Amarpura, Ras, Bagatpura Mandi Chauraha, Sewariya, Kurki, Kekindra, Bhoomba liya, Paliyawas etc				
		Revival of Handpumps @ Gram Panchayat Rabriyawas, Balada, Amarpura, Ras, Bagatpura Mandi Chauraha, Sewariya, Kurki, Kekindra, Bhoomba liya, Paliyawas etc	100 Nos	120 Nos	150Nos	
		Revival of Pond	12 Nos (Rabriyawas-3, Balada-2, Dhaneriya-2, Bakhtawarpura-2, Kurki-1, Sewariya-1, Ras-1)	20 Nos (Rabriyawas-3, Balada-2, Dhaneriya-2, Bakhtawarpura-2, Kurki-1, Sewariya-1, Ras-1)	20 Nos (Rabriyawas-3, Balada-2, Dhaneriya-2, Bakhtawarpura-2, Kurki-1, Sewariya-1, Ras-1)	

S . N o	Concerns raised during the Public Hearing	Physical activity to be done	Year of implementation			Total Expenditure (Rs. in Crores)
			1 <sup>st</sup> Year	2 <sup>nd</sup> Year	3 <sup>rd</sup> Year	
		<b>Budget</b>	<b>0.60</b>	<b>0.60</b>	<b>0.60</b>	<b>1.8</b>
4	Women empowerment	To provide financial assistance and training for SHG	Rabriyawas Balada Kurki Ras Lambiya Sewariya 20 Nos	Rabriyawas Balada Kurki Ras Lambiya Sewariya 20Nos	Rabriyawas Balada Kurki Ras Lambiya Sewariya 20 Nos	
		To provide training for self-income generation	Rabriyawas Balada 1 Nos	Kurki Ras 1 Nos	Lambiya Sewariya 1 Nos	
		<b>Budget</b>	<b>0.082</b>	<b>0.090</b>	<b>0.099</b>	<b>0.271</b>
5	Education	Under Promotion of Sports and Tournament Trainings, Sports Material & Coaching -10	Rabriyawas, Balada, Amarpura, Ras, 4 Nos	Bagatpura Mandi Chauraha, Sewariya, 3Nos	Kurki, Kekindra, Bhoombaliya, Paliyawas 4 Nos	
		School Toilets-5	Rabriyawas, Balada, 2 Nos	Kherpura Daytalpura 2 Nos	Ras 1 No	
		Books & Trainings IEC in Schools-5	Rabriyawas, Balada, 2 Nos	Kherpura Daytalpura 2 Nos	Ras 1 No	
		<b>Budget</b>	<b>0.021</b>	<b>0.023</b>	<b>0.025</b>	<b>0.069</b>
6	Health	Conducti on of Regular health camps in surroundi ng 5	5 Target Villages (Rabriyawas Balada Kurki Ras	5 Target Villages (Balada Kurki Ras Lambiya Sewariya)	5 Target Villages (Balada Kurki Lambiya Sewariya)	

S . N o	Concerns raised during the Public Hearing	Physical activity to be done	Year of implementation			Total Expendit ure (Rs. in Crores)
			1 <sup>st</sup> Year	2 <sup>nd</sup> Year	3 <sup>rd</sup> Year	
		villages on yearly basis	Lambiya)			
		<b>Budget</b>	<b>0.021</b>	<b>0.023</b>	<b>0.025</b>	<b>0.069</b>
7	Plantation	Sapling in 1500 Numbers in 3 villages for Greenery developm ent in next 3 year	Dayalpura village (500 Nos)	Kerpura Village – (500 Nos)	Balada village- (500 Nos)	
		<b>Budget</b>	<b>0.03</b>	<b>0.03</b>	<b>0.03</b>	<b>0.09</b>
	<b>Total</b>					<b>7.399</b>

