



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

To,

The Asst. Vice President & Head- Environment
Shree Cement Ltd.

Shree Cement Ltd. Bangur Nagar, Post Box No. 33, Beawar 305901,
Rajasthan, India, Shree Cement Ltd. Bangur Nagar, Post Box No. 33,
Beawar 305901, Rajasthan, India, Jhunjhunu, Rajasthan-305901

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

Sir/Madam,

This is in reference to your application for Environmental Clearance (EC)
in respect of project submitted to the Ministry vide proposal number
IA/RJ/IND1/412731/2022 dated 10 Feb 2023. The particulars of the environmental
clearance granted to the project are as below.

- | | |
|---|---|
| 1. EC Identification No. | EC23A009RJ156330 |
| 2. File No. | IA-J-11011/398/2018-IA-II(IND-I) |
| 3. Project Type | New |
| 4. Category | A |
| 5. Project/Activity including
Schedule No. | 3(b) Cement plants |
| 6. Name of Project | Integrated Cement Plant {Clinker - 4.5
Million TPA; Cement - 4.0 Million TPA
(OPC, PPC, PSC, RHPC, SRC &
Composite Cement); WHRS - 37.5 MW
and D.G. Sets - 2500 KVA (2 x 1000 KVA
& 1 x 500 KVA) or (1 x 1000 KVA, 2 x 500
KVA & 2 x 250 KVA)} at Villages-
Bhivgarh, Jawangarh and Ras - II, Tehsil -
Jaitaran, District - Pali (Rajasthan) by
Shree Cement Limited (Bangur Cement
Unit) |
| 7. Name of Company/Organization | Shree Cement Ltd. |
| 8. Location of Project | Rajasthan |
| 9. TOR Date | N/A |

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

Date: 06/04/2023

(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.*

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F. No. IA-J-11011/398/2018-IA-II(I)
Government of India
Ministry of Environment, Forest and Climate Change
(I.A. Division – Industry I sector)

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

Dated: 6th April, 2023

To,

M/s Shree Cement Limited (Bangur Cement Unit)

.Bangur Nagar, Post Box No. 33, Beawar,
Rajasthan-305901

Email: anil.trivedi@shreecement.com

Project: Integrated Cement Plant {Clinker - 4.5 Million TPA; Cement - 4.0 Million TPA (OPC, PPC, PSC, RHPC, SRC & Composite Cement); WHRS - 37.5 MW and D.G. Sets - 2500 KVA (2 x 1000 KVA & 1 x 500 KVA) or (1 x 1000 KVA, 2 x 500 KVA & 2 x 250 KVA)} by M/s Shree Cement Limited (Bangur Cement Unit), located at Villages- Bhivgarh, Jawangarh and Ras - II, Tehsil - Jaitaran, District – Pali, Rajasthan — Grant of Environmental Clearance.

Sir,

This refers to your proposal no. **IA/RJ/IND1/412731/2022 dated 10.02.2023** received through PARIVESH Portal for grant of **Environmental Clearance (EC)** for the project mentioned above. Further, PP has uploaded the information on Parivesh portal on 13.03.2023.

2. As per the provisions of the Environment Impact Assessment (EIA) Notification, 2006, the above-mentioned project/activity is covered under schedule. 3(b) Cement Plants under Category “A” of the schedule of the EIA Notification, 2006 is therefore, appraised at Central Level.

3. The proposal is considered in the 24th meeting of the EAC for Industry-I sector held on 28th February, 2023 -1st March, 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 1 Sector) are as under: -

S. No.	Particulars	Details submitted by PP
a.	Terms of Reference for undertaking EIA study	10th July, 2019 and amendment on 18th Oct., 2021
b.	Period of baseline data collection	Winter Season (Dec., 2020 to Feb., 2021)
c.	Date of Public Consultation	8th August, 2022
d.	Action plan to address the PH issues	An amount of Rs. 28.04 Cr has been earmarked to address the issues raised during public hearing attached as Annexure 1 .



S. No.	Particulars	Details submitted by PP																																																									
e.	Location of the project	Villages- Bhivgarh, Jawangarh and Ras - II, Tehsil - Jaitaran, District – Pali, Rajasthan																																																									
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>1.</td><td>26°16'55.13"N</td><td>74°11'25.59"E</td></tr> <tr><td>2.</td><td>26°16'59.37"N</td><td>74°11'37.23"E</td></tr> <tr><td>3.</td><td>26°16'59.48"N</td><td>74°11'41.34"E</td></tr> <tr><td>4.</td><td>26°16'58.26"N</td><td>74°11'44.07"E</td></tr> <tr><td>5.</td><td>26°16'56.06"N</td><td>74°11'40.13"E</td></tr> <tr><td>6.</td><td>26°16'51.57"N</td><td>74°11'37.61"E</td></tr> <tr><td>7.</td><td>26°16'51.49"N</td><td>74°11'34.28"E</td></tr> <tr><td>8.</td><td>26°16'49.00"N</td><td>74°11'41.10"E</td></tr> <tr><td>9.</td><td>26°16'41.83"N</td><td>74°11'37.13"E</td></tr> <tr><td>10.</td><td>26°16'30.23"N</td><td>74°11'28.69"E</td></tr> <tr><td>11.</td><td>26°16'31.37"N</td><td>74°11'23.50"E</td></tr> <tr><td>12.</td><td>26°16'34.62"N</td><td>74°11'19.26"E</td></tr> <tr><td>13.</td><td>26°16'35.61"N</td><td>74°11'14.42"E</td></tr> <tr><td>14.</td><td>26°16'38.21"N</td><td>74°11'13.26"E</td></tr> <tr><td>15.</td><td>26°16'46.99"N</td><td>74°11'14.98"E</td></tr> <tr><td>16.</td><td>26°16'46.17"N</td><td>74°11'29.94"E</td></tr> <tr><td>17.</td><td>26°16'49.95"N</td><td>74°11'32.68"E</td></tr> <tr><td>18.</td><td>26°16'52.20"N</td><td>74°11'29.94"E</td></tr> </tbody> </table>	Point	Latitude	Longitude	1.	26°16'55.13"N	74°11'25.59"E	2.	26°16'59.37"N	74°11'37.23"E	3.	26°16'59.48"N	74°11'41.34"E	4.	26°16'58.26"N	74°11'44.07"E	5.	26°16'56.06"N	74°11'40.13"E	6.	26°16'51.57"N	74°11'37.61"E	7.	26°16'51.49"N	74°11'34.28"E	8.	26°16'49.00"N	74°11'41.10"E	9.	26°16'41.83"N	74°11'37.13"E	10.	26°16'30.23"N	74°11'28.69"E	11.	26°16'31.37"N	74°11'23.50"E	12.	26°16'34.62"N	74°11'19.26"E	13.	26°16'35.61"N	74°11'14.42"E	14.	26°16'38.21"N	74°11'13.26"E	15.	26°16'46.99"N	74°11'14.98"E	16.	26°16'46.17"N	74°11'29.94"E	17.	26°16'49.95"N	74°11'32.68"E	18.	26°16'52.20"N	74°11'29.94"E
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g.	Total land	Total land required for the project is 32.27 ha (79.73 acres). Out of total land area; 21.62 ha (53.42 acres) land has been converted into industrial purpose and 10.65 ha (26.31 acres) is agricultural land.																																																									
h.	Land acquisition details as per MoEF&CC O.M. dated 7/10/2014	Total project area is 32.27 ha (79.73 acres); out of which, 79.19 acres (i.e., 99.32%) land is under possession of Shree Cement Limited and balance 0.54 acres (i.e., 0.68%) land acquisition is under process.																																																									
i.	Existence of habitation & involvement of R&R, if any	<p>Plant Site: No habitation exists within the project site. Study Area: Nearby village has been provided below-</p> <table border="1"> <thead> <tr> <th>Habitation</th><th>Distance (km)</th><th>Direction</th></tr> </thead> <tbody> <tr><td>Jawangarh</td><td>~0.1 Km</td><td>North</td></tr> <tr><td>Khera</td><td>~1.0 Km</td><td>East</td></tr> <tr><td>Nimbeti</td><td>~2.0 Km</td><td>WNW</td></tr> <tr><td>Ras</td><td>~2.5 Km</td><td>North</td></tr> <tr><td>Bhivgarh</td><td>~2.5 Km</td><td>SSE</td></tr> <tr><td>Bhagatpura</td><td>~3.0 Km</td><td>ESE</td></tr> <tr><td>kundal</td><td>~4.0 Km</td><td>SW</td></tr> </tbody> </table> <p>There are approx. 47 villages in 10 km radius study area.</p>	Habitation	Distance (km)	Direction	Jawangarh	~0.1 Km	North	Khera	~1.0 Km	East	Nimbeti	~2.0 Km	WNW	Ras	~2.5 Km	North	Bhivgarh	~2.5 Km	SSE	Bhagatpura	~3.0 Km	ESE	kundal	~4.0 Km	SW																																	
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j.	Elevation of the project site	367 m to 377 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	<p>Project site: No water body exists within the project site. Study area: Following water body fall within 10 km radius:</p> <table border="1"> <thead> <tr> <th>Water body</th><th>Distance (km)</th><th>Direction</th></tr> </thead> <tbody> </tbody> </table>	Water body	Distance (km)	Direction																																																						
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S. No.	Particulars	Details submitted by PP			
			Lilri River	~1.0 km	NNW
m.	Existence of ESZ / ESA / national park / wildlife Sanctuary / biosphere Reserve / tiger reserve / elephant reserve etc. if any within the study area	No National Park, Wildlife Sanctuary, Biosphere Reserve & Tiger/ Elephant Reserve exist within 10 km radius of the project site. Therefore, NBWL approval is not applicable. List of protected & reserved forests are provided below: <ul style="list-style-type: none">Protected Forest (3.5 km in NNW direction)Gopalpura Block PF (5.0 km in SE direction)Babra Giri Block RF (6.5 km in SSE direction)Salarmal Block PF (8.5 km in SSE direction)			
n.	Project cost	The capital cost of the proposed project is Rs. 1872 Crores			
o.	EMP cost	Type	Capital (Rs. in Crores)	Recurring (Rs. in Crores)	
		Proposed	Rs. 53.94 Crores	Rs. 2.42 Crores	
p.	Employment opportunity	The employment generation from the proposed project is 770 people			
q.	Water and Power requirement	Water – The Water requirement for the proposed project is 530 m3/day. The power requirement for the proposed project is estimated as 46.17 MW.			

Unit configuration and capacity:

S. No.	Plant Equipment / Facility	Proposed Units	
		Configuration	Capacity
1.	Clinker	Kiln: 1 x 13500 TPD	4.5 Million TPA
2.	Cement (OPC, SRC, RHPC, PPC, PSC & Composite Cement)	VRM: 1 x 13000 TPD	4.0 Million TPA
3.	WHRS	PH & AQC Boiler (37.5 MW)	37.5 MW

5. The EAC, in its meeting held during **28th February, 2023 -1st March, 2023**, inter-alia, deliberated the following:

- The instant proposal is for setting up of a new Integrated Cement Plant - {Clinker - 4.5 Million TPA; Cement - 4.0 Million TPA (OPC, PPC, PSC, RHPC, SRC & Composite Cement); WHRS - 37.5 MW and D.G. Sets - 2500 KVA (2 x 1000 KVA & 1 x 500 KVA) or (1 x 1000 KVA, 2 x 500 KVA & 2 x 250 KVA)}.
- 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.
- 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.

- iv. 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.
- v. Total land required for the project is 32.27 ha (79.73 acres), out of which, 79.19 acres (i.e., 99.32%) land is under possession of Shree Cement Limited and balance 0.54 acres (i.e., 0.68%) land acquisition is under process. Out of total land area; 21.62 ha (53.42 acres) land has been converted into industrial purpose and 10.65 ha (26.31 acres) is agricultural land.
- vi. The nearest habitation to plant are Jawangarh (~0.1 Km, North), Khera (~1.0 Km, East), Nimbeti (~2.0 Km,WNW), Ras (~2.5 Km, North), Bhivgarh (~2.5 Km, SSE), Bhagatpura (~3.0 Km, ESE) and Kundal (~4.0 Km, SW). There are approx. 47 villages in 10 km radius study area.
- vii. Lilri River flows at a distance of 1 km in the NNW direction from the project site. The EAC is of the opinion that water body shall not be disturbed. Mitigation measures w.r.t. safeguarding the water body shall be implemented.
- viii. The water requirement is 530 m³/day, out of which 50 m³/day (only for drinking purpose) will be obtained from the ground water and the remaining requirement of 480 m³/day will be met from the treated STP water from Nagar Parishad Beawar City and Mine Pit water of Captive limestone mine.
- ix. Proposed greenbelt will be developed in 11.94 ha which is about 37% of the total project area. Greenbelt of 25 m wide in northern and southern sides, all along the periphery of plant boundary to create barrier between the plant and agricultural fields and 200 m wide greenbelt towards Village Jawangarh will be developed. Local and native species will be planted with a density of 2500 tree per hectare. Total no. of 29,850 saplings will be planted and nurtured in 11.94 ha in 3 years. At present, 2700 saplings in 1.08 ha. area have already been planted along the project boundary. The committee deliberated on the greenbelt development plan and the avenue plantation as submitted and found it satisfactory.
- x. The Committee has found that the baseline data and incremental GLC due to the proposed project within NAAQ standards.
- 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 revised action plan submitted by the proponent to address the issues raised during the public hearing and found it satisfactory.
- xiii. The Committee deliberated upon the written submission of the Project Proponent and found it satisfactory.
- xiv. The Committee also took into account the site visit undertaken by the sub-committee at the time of ToR and the recommendations of then sub-committee/committee alongwith the amendments granted in TOR.
- xv. 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.
- xvi. 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.

6. The EAC, in its 24th meeting of Expert Appraisal Committee (Industry-1 Sector) held on 28th **February, 2023 - 1st March, 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 Shree Cement Limited (Bangur Cement Unit)** under the provisions of EIA Notification, 2006 subject to the following specific conditions and general conditions:

A. Specific conditions:

- (i) The PP 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 nearest habitation to plant are Jawangarh (~0.1 Km, North), Khera (~1.0 Km, East), Nimbeti (~2.0 Km,WNW), Ras (~2.5 Km, North), Bhivgarh (~2.5 Km, SSE), Bhagatpura (~3.0 Km, ESE) and Kundal (~4.0 Km, SW). There are approx. 47 villages in 10 km radius study area. Project Proponent shall take appropriate environmental safeguard measures to minimise the impact on the habitation of the locals. The PP shall also include some of these locations in its environmental monitoring programme.
- (iv) The total land involved in the proposed project i.e. 32.27 ha shall be acquired and necessary permission shall be obtained pertaining to conversion of land for industrial purpose use prior to commencement of project.
- (v) The Lilri River flows at a distance of 1 km in the NNW direction from 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.
- (vi) As committed, PP shall adopt villages and formulate Village Adoption program consisting of need-based community development activities, to develop them into model villages.
- (vii) In surrounding villages, efforts should be made to improve agri-crop yield and social forestry.
- (viii) The water requirement for the proposed project of 530 m³/day [50 m³/day for drinking purpose from the ground water] and the remaining requirement of 480 m³/day shall be met



from the treated STP water from Nagar Parishad Beawar City and Mine Pit water of Captive limestone mine. Necessary permissions shall be obtained from the Competent Authority in this regard. PP shall explore the possibility of shifting to alternate source of water for drinking purpose to reduce dependency on groundwater.

- (ix) Three tier Green Belt shall be developed with majority in the 1st year covering at least 37% of the total project area as per the submitted plan 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 develop avenue plantation as per the submitted plan. 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 the villages namely Jawangarh (~0.1 Km, North), Khera (~1.0 Km, East), Nimbeti (~2.0 Km, WNW), Ras (~2.5 Km, North), Bhivgarh (~2.5 Km, SSE), Bhagatpura (~3.0 Km, ESE) and Kundal (~4.0 Km, SW) and in northern and southern sides to create barrier between plant and agricultural fields. Compliance status in this regard, shall be submitted to concerned Regional Office of the MoEF&CC.
- (x) Greening and Paving shall be implemented in the plant area to arrest soil erosion and dust pollution from exposed soil surface.
- (xi) 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. MSW waste shall be treated in digester and recovered gas shall be used in the canteen. Process effluent/ any wastewater shall not be allowed to mix with storm water.
- (xii) The PP shall also undertake rain water harvesting measures as per the plan submitted in the EIA/EMP report and reduce water dependence from the outside source.
- (xiii) All stockyards shall be having impervious flooring and shall be equipped with water spray system for dust suppression. Stock yards shall also have garland drains to trap the run off material.
- (xiv) All internal and connecting road to the Highway shall be black topped/ concreted with suitable load in term of Million Standard Axle (MSA) as per IRC guidelines.
- (xv) Performance monitoring of pollution control equipment shall be taken up yearly and compliance status in this regard shall be reported to the concerned Regional Office of the MoEF&CC.
- (xvi) Dioxin and furans shall be monitored twice a year during co-processing of hazardous waste and report shall be submitted to the Regional Office of the MoEF&CC.
- (xvii) Particulate matter emissions from all the stacks shall be less than 30 mg/Nm³.
- (xviii) DeSOx system shall be provided dry type. NOx level shall be maintained below 600 mg/Nm³ by using best available technology.
- (xix) Petcoke dosing shall be controlled automatically to control SO₂ emission from chimney within the prescribed limits.
- (xx) PP shall identify the Source of fluoride emissions and action plan to mitigate the same shall be implemented.
- (xxi) The PP shall measure the water level of all water bodies in the vicinity in a periodic manner (once in 6 months) and submit the report to IRO, MoEF&CC.



- (xxii) A proper action plan must be implemented to dispose of the electronic waste generated in the industry.
- (xxiii) Topsoil removed during construction phase should be managed scientifically with the objective of conservation, and earliest and continuous reuse.
- (xxiv) Action Plan for fire-fighting system including provision for flame detectors, temperature actuated heat detectors with alarms, automatic sprinkler system, fixing the location of fire water tanks, separate power system for fire-fighting, involvement of qualified and trained fire personnel, nearest fire station & time required to reach the proposed site shall be prepared and implemented.
- (xxv) All the recommendations made in the risk assessment report shall be implemented and compliance status in this regard shall be furnished to the Regional Office of the MoEF&CC along with the six monthly compliance report.
- (xxvi) All the commitments made to the public during the Public Hearing/Public Consultation 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 shall be strictly implemented and progress shall be submitted to the Regional Office of MoEF&CC.
- (xxvii) The PP shall construct a Wind shield/ Acoustic barrier besides three rows of tall thick, broad leaved evergreen tree species in order to protect the school children and villagers from dust and noise pollution.
- (xxviii) 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.
- (xxix) 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. Storage of raw materials shall be either in silos or in covered areas to prevent dust pollution and other fugitive emissions.

B. General conditions

I. Statutory compliance:

- i. The Environment Clearance (EC) granted to the project/ activity is strictly under the provisions of the EIA Notification, 2006 and its amendments issued from time to time. It does not tantamount/ construe to approvals/ consent/ permissions etc., required to be



obtained or standards/conditions to be followed under any other Acts/Rules/Subordinate legislations, etc., as may be applicable to the project.

II. Air quality monitoring and preservation

- i. The project proponent shall install 24x7 continuous emission monitoring system with respect to standards prescribed in Environment (Protection) Rules 1986 vide G.S.R. No. 612 (E) dated 25th August, 2014 (Cement) and subsequent amendment dated 9th May, 2016 (Cement) and 10th May, 2016 (in case of Co-processing Cement); as amended from time to time; 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 fugitive emissions in the plant premises at least once in every quarter through labs recognised under Environment (Protection) Act, 1986.
- iii. The project proponent shall install system carryout to 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.
- iv. The project proponent shall submit monthly summary report of continuous stack emission and air quality monitoring and results of manual stack monitoring and manual monitoring of air quality /fugitive emissions to Regional Office of MoEF&CC, Zonal office of CPCB and Regional Office of SPCB along with six-monthly monitoring report.
- 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 mechanised bag cleaning facilities for better maintenance of bags.
- vii. Pollution control system in the cement plant shall be provided as per the CREP Guidelines of CPCB.
- viii. Sufficient number of mobile or stationery vacuum cleaners shall be provided to clean plant roads, shop floors, roofs, regularly.
- ix. Ensure covered transportation and conveying of raw material to prevent spillage and dust generation; Use closed bulkers for carrying fly ash.
- x. Provide wind shelter fence and chemical spraying on the raw material stock piles; and
- xi. Provide Low NOX burners as primary measures and SCR /NSCR technologies as secondary measure to control NOX emissions.
- xii. Have separate truck parking area and monitor vehicular emissions at regular interval.
- xiii. Efforts shall be made to reduce impact of the transport of the raw materials and end products on the surrounding environment including agricultural land by the use of covered conveyor belts/railways as a mode of transport



- xiv. Ventilation system shall be designed for adequate air changes as per ACGIH document for all tunnels, motor houses, cement bagging plants.

III. Water quality monitoring and preservation

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

IV. Noise monitoring and prevention

- i. Noise quality shall be monitored as per the prescribed Noise Pollution (Regulation and Control) Rules, 2000 and report in this regard shall be submitted to Regional Officer of the Ministry as a part of six-monthly compliance report.
- 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. Waste heat recovery system shall be provided for kiln and cooler.
- ii. The project proponent makes efforts to achieve power consumption less than 65 units/ton for Portland Pozzolona Cement (PPC) and 85 units/ton for Ordinary Portland Cement (OPC) production and thermal energy consumption of 670 Kcal/Kg of clinker.
- iii. Provide solar power generation on roof tops of buildings, for solar light system for all common areas, street lights, parking around project area and maintain the same regularly.
- iv. Provide the project proponent for LED lights in their offices and residential areas.

VI. Waste management

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

VII. Green Belt



- i. The project proponent shall prepare GHG emissions inventory for the plant and shall submit the program for reduction of the same including carbon sequestration by trees in the plant premises.
- ii. Project proponent shall submit a study report within six months on Decarbonisation program, which would essentially consist of company's carbon emissions, carbon budgeting/ balancing, carbon sequestration activities and carbon 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 monitorable with defined time frames.

VIII. Public hearing and Human health issues

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

IX. Environment Management

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

X. Miscellaneous

- i. The project proponent shall make public the environmental clearance granted for their project along with the environmental conditions and safeguards at their cost by prominently advertising it at least in two local newspapers of the District or State, of which one shall be in the vernacular language within seven days and in addition this shall also be displayed in the project proponent's website permanently.



- ii. The copies of the environmental clearance shall be submitted by the project proponents to the Heads of local bodies, Panchayats and Municipal Bodies in addition to the relevant offices of the Government who in turn has to display the same for 30 days from the date of receipt.
- iii. The project proponent shall upload the status of compliance of the stipulated environment clearance conditions, including results of monitored data on their website and update the same on half-yearly basis.
- iv. The project proponent shall monitor the criteria pollutants level namely; PM10, SO2, NOx (ambient levels as well as stack emissions) or critical sectoral parameters, indicated for the projects and display the same at a convenient location for disclosure to the public and put on the website of the company.
- v. The project proponent shall submit six-monthly reports on the status of the compliance of the stipulated environmental conditions on the website of the ministry of Environment, Forest and Climate Change at environment clearance portal.
- vi. The project proponent shall submit the environmental statement for each financial year in Form-V to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently and put on the website of the company.
- vii. The project proponent shall inform the Regional Office as well as the Ministry, the date of financial closure and final approval of the project by the concerned authorities, commencing the land development work and start of production operation by the project.
- viii. The project proponent shall abide by all the commitments and recommendations made in the EIA/EMP report, commitment made during Public Hearing and also that during their presentation to the Expert Appraisal Committee.
- ix. 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.
- x. 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).
- xi. 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.

(Dr. R. B. Lal)
Scientist 'F'/ Director
Tel: 011-20819346
Email-rb.lal@nic.in

Encl. as above at Annexure –I

Copy to: -

1. The Secretary, Department of Environment, Government of Rajasthan, Secretariat, Jaipur.
2. The Director General of Forest, Ministry of Environment, Forest and Climate Change, New Delhi.
3. 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
4. The Chairman, Central Pollution Control Board, Parivesh Bhawan, CBD-cum-Office Complex, East Arjun Nagar, Delhi-110032.
5. The Chief Wildlife Warden, Govt. of Rajasthan, Van Bhawan, Vaniki Path, Jaipur -302005
6. The Chairman, Rajasthan State Pollution Control Board, 4, Institutional area, Jhalana, Doongri, Jaipur.
7. The Member Secretary, Central Ground Water Authority, Jamnagar House, 18/11, Man Singh Road Area, New Delhi, Delhi 110001
8. The District Collector, Pali -District, Rajasthan.
9. The Monitoring Cell, IA Division, MoEFCC, New Delhi
10. Guard File/Record File/Monitoring File/ Parivesh Portal/MoEF&CC website.

(Dr. R. B. Lal)
Scientist 'F'/Director
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Table: Action Plan as per Ministry's O.M. dated 30/09/2020

S. No .	Concerns raised during the Public Hearing	Physical activity to be done	Unit of Measurement						Tentative Budget (Rs. in lacs)
			1 st Year		2 nd Year		3 rd Year		
			Location / Area	Budget in Lacs	Location / Area	Budget in Lacs	Location / Area	Budget in Lacs	
1	Skill Development	Establishment of Skill Development Centre for providing short duration programs for umemployed youth in the field of domestic electrician, plumber, motor mechanic etc.	01 Centre at Village Ras to cover 7 nearby Villages (Ras, Paliyawas, Roopnagar, Kesarpura, Nimbeti, Ganeshpura & Jawangarh)	183	01 Centre at Villages Babra to cover nearby 6 Villages (Babra, Patan, Nayagaon, Devgarh, Pratapgarh & Ramgarh)	153	01 Centre at Village Butiwas/ Pratapgarh to cover nearby 5 Villages (Butiwas, Bagatpura, Pratapgarh, Ramawas & Kundal)	137	473
2	Rural Infrastructure Development	Construction of Community Centers	02 Nos (Villages Jawangarh & Bhivgarh)	61	02 No. (Village Nimbeti & Butiwas)	61	02 No. (Bagatpura & Ras)	61	183
		Repair / Restoring the Village Pathways/Road	02 No. (Village Nimbeti & Butiwas)	183	02 Nos (Villages Jawangarh & Bhivgarh)	183	01 No. (Village Ras & Bagatpura)	92	458
		Development of playgrounds	01 Nos Village Babra	61	01 No. (Village Devgarh)	61	01 No. (Village Butiwas)	61	183
		Installation of Solar lights	03 Nos (Villages Jawangarh, Bagatpura & Bhivgarh)	31	03 No. (Village Nimbeti, Devgarh & Butiwas)	31	02 No. (Village Ras & Babra)	31	92
		Providing seeds and organizing training camps for improvement of agri - crop yield & social forestry	03 No. (Village Ras, Bagatpura & Butiwas)	46	03 Nos (Babra, Devgarh & Jagtiya)	46	03 Nos (Kolpura, Bhivgarh & Roopnagar)	46	137
3	Ground Water Conservation	1. Restoration of Water ponds / percolation tanks by desilting, clearing the water paths etc..	03 No. (Village Ras, Paliyawas, Roopnagar)	61	03 Nos (Villages Bagatpura, Butiwas, Devgarh)	61	03 No. (Village Pratapgarh, Patan, Babra)	61	183



S. No .	Concerns raised during the Public Hearing	Physical activity to be done	Unit of Measurement						Tentative Budget (Rs. in lacs)
			1 st Year		2 nd Year		3 rd Year		
			Location / Area	Budget in Lacs	Location / Area	Budget in Lacs	Location / Area	Budget in Lacs	
		2. Renovation and maintainence of the existing check dams							
		Rain water harvesting on Buildings of Govt. School/ Panchayat/ Health centres etc.	03 No. (Village Ras, Babra, Bagatpura)	46	02 Nos (Giri & Butiwas)	31	02 Nos (Bhivgarh & Pratapgarh)	31	107
4	Safe Drinking Water	Installation of Water huts with Water Coolers and construction of water tanks, drinking water structures for animals to provide safe drinking water at community places	03 No. (Village Ras, Bagatpura & Butiwas)	46	03 Nos (Babra, Devgarh & Patan)	46	03 Nos (Bhivgarh, Pratapgarh & Paliyawas)	46	137
5	Education	Construction of classrooms in govt. schools	02 Nos (Village Bhivgarh & Ras)	61	03 Nos (Villages Butiwas, Babra & Jawangarh)	92	03 Nos (Village Pratapgarh, Devgarh & Bagatpura)	92	244
		Computer Training Program will be organised to train the rural student of nearby villages and 20 computers will be provided to schools of nearby villages	01 Nos (Village Ras)	31	01 Centre (Village Bhivgarh)	31	01 Centre (Jawangarh)	31	92
		Installation of facility for Smart classes in the Government schools to promote Digital education	02 Nos (Villages Ras & Babra)	12	02 Nos (Village Butiwas & Paliyawas)	12	02 Nos (Village Pratapgarh & Patan)	12	37



S. No .	Concerns raised during the Public Hearing	Physical activity to be done	Unit of Measurement						Tentative Budget (Rs. in lacs)
			1 st Year		2 nd Year		3 rd Year		
			Location / Area	Budget in Lacs	Location / Area	Budget in Lacs	Location / Area	Budget in Lacs	
6	Health	Organizing Medical Health Camps with facilities of Mobile Medical Van (Medicine & Checkup)	02 Nos (Villages Ras & Babra)	21	02 Nos (Village Butiwas & Paliyawas)	18	02 Nos (Village Pratapgarh & Patan)	21	61
		Construction / Renovation of Community Health Centres	01 Nos (Village Ras)	27	02 Nos (Villages Babra & Devgarh)	55	01 Nos (Butiwas)	24	107
		Provide medical investigating equipment and need based support Material set	01 Nos (Village Ras)	15	02 Nos (Villages Babra & Devgarh)	31	01 Nos (Butiwas)	15	61
		Construction of male & female toilet blocks at Schools	02 No. (Village Ras & Butiwas)	31	01 No. (Village Paliyawas)	31	02 Nos (Devgarh & Pratapgarh)	31	92
		Preventive health programme for women & Children	02 No. (Village Ras & Bhagatpura)	21	01 No. (Village Jawangarh)	12	02 Nos (Bhivgarh & Butiwas)	21	55
7	Plantation	Plantation & Distribution of Plants in nearby villages along the roads, Govt. Offices and available free space	03 No. Ras, Paliyawas & Bagatpura	45	03 No. Babra, Butiwas & Devgarh	30	03 No. Patan, Pratapgarh & Kolpura	30	105
Sub Total				952		967		827	2804
Total									2804
Note: Villages can be interchanged as per situation demand. Activities may be changed as per situation and community requirement.									

