



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

To,

The Authorised Signatory
CALCOM CEMENT INDIA LTD
ANIL PIAZA II,4TH FLOOR, ABC, G.S.ROAD, GUWAHATI-
781005,,Kamrup,Assam-781005

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/AS/IND/4109/2006 dated 03 Feb 2022. The particulars of the environmental clearance granted to the project are as below.

- | | |
|--|---------------------------|
| 1. EC Identification No. | EC22A009AS128343 |
| 2. File No. | J-11011/307/2006-IA.II(I) |
| 3. Project Type | Expansion |
| 4. Category | A |
| 5. Project/Activity including Schedule No. | 3(b) Cement plants |
| 6. Name of Project | Cement Plant |
| 7. Name of Company/Organization | CALCOM CEMENT INDIA LTD |
| 8. Location of Project | Assam |
| 9. TOR Date | N/A |

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

Date: 05/05/2022

(e-signed)
Dr. R. B. Lal
Scientist E
IA - (Industrial Projects - 1 sector)

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

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F. No. J-11011/307/2006-IA. II(I)
Government of India
Ministry of Environment, Forest and Climate Change
(I.A. Division – Industry I sector)

Indira Paryavaran Bhawan
Jor Bagh Road, Aliganj,
New Delhi – 110003

Dated: 5th May, 2022

To

Shri. Padmanav Chakravarty,
Authorized Signatory,
M/s. Calcom Cement India Ltd,
Anil Plaza II, 4th Floor, ABC, G.S.Road,
Guwahati, Kamrup, Assam – 781 005,
Email: chakravarty.padmanav@dalmiacement.com; Tel: 0361-7156700

Subject: Expansion in Clinker Production Capacity from 0.98 MTPA to 1.52 MTPA along with the installation of waste heat recovery system (8 MW) by M/s. Calcom Cement India Limited located at 16 Kilo - Langcherui (Jamunanagar), Tehsil: Umrangso, District: Dima Hasao (Earlier North Cachar Hills), Assam– Environment Clearance regarding.

Sir,

This refers to your proposal no. IA/AS/IND/4109/2006 dated 03/02/2022 and subsequent additional information submitted vide letter dated 19/04/2022 through PARIVESH seeking for grant of **Environment Clearance (EC)** for the project mentioned above.

- As per the provisions of the Environment Impact Assessment (EIA) Notification, 2006, the above-mentioned project/activity is covered under category '**A**' of item **3(b) Cement Plants**, and appraised at **Central level**.
- Accordingly, the above-mentioned proposal has been considered in **53rd meeting of Re-constituted Expert Appraisal Committee (Industry 1 Sector) held on 10-11th February, 2022**. The minutes of the meeting and all the project documents are available on PARIVESH portal which can be accessed at <https://parivesh.nic.in/>.
- The details of the proposal are as per the EIA report submitted by the proponent. The salient features of the proposal as presented during the above-mentioned meetings of EAC (Industry 1) are as under: -

S No	Particulars	Details						
a.	Terms of Reference for undertaking EIA study	29/07/2021						
b.	Period of baseline data collection	December, 2020 – February, 2021						
c.	Date of Public Consultation	21/12/2021						
d.	Action plan to address the PH issues	An amount of Rs. 281 lakhs have been earmarked to address the issues raised during public hearing. PH action plan attached as Annexure- I .						
e.	Location of the project	16 Kilo - Langcherui (Jamunanagar), Tehsil: Umrangso, District: Dima Hasao (Earlier North Cachar Hills), Assam.						
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>25°30'55.73" N</td><td>92°45'36.99" E</td></tr></tbody></table>	Point	Latitude	Longitude	1.	25°30'55.73" N	92°45'36.99" E
Point	Latitude	Longitude						
1.	25°30'55.73" N	92°45'36.99" E						

S No	Particulars	Details																				
		2.	25°30'55.18" N	92°45'35.57" E																		
		3.	25°30'45.41" N	92°45'31.30" E																		
		4.	25°30'44.35" N	92°45'28.81" E																		
		5.	25°30'38.86" N	92°45'25.34" E																		
		6.	25°30'38.51" N	92°45'26.62" E																		
		7.	25°30'37.80" N	92°45'30.90" E																		
		8.	25°30'38.97" N	92°45'35.03" E																		
		9.	25°30'42.15" N	92°45'45.24" E																		
		10.	25°30'43.54" N	92°45'46.69" E																		
		11.	25°30'47.24" N	92°45'47.96" E																		
		12.	25°30'51.27" N	92°45'47.08" E																		
		13.	25°30'52.67" N	92°45'44.61" E																		
		14.	25°30'55.17" N	92°45'41.08" E																		
		15.	25°30'48.55" N	92°45'55.35" E																		
		16.	25°30'50.06" N	92°45'50.67" E																		
		17.	25°30'45.09" N	92°45'47.99" E																		
		18.	25°30'43.17" N	92°45'48.28" E																		
		19.	25°30'38.16" N	92°45'49.43" E																		
		20.	25°30'38.94" N	92°46'01.44" E																		
		21.	25°30'42.98" N	92°46'9.63" E																		
		22.	25°30'45.53" N	92°46'11.34" E																		
		23.	25°30'46.98" N	92°46'7.82" E																		
		24.	25°30'43.69" N	92°46'2.53" E																		
		25.	25°30'39.20" N	92°45'55.98" E																		
		26.	25°30'41.42" N	92°45'59.42" E																		
		27.	25°30'44.87" N	92°45'59.23" E																		
		28.	25°30'46.42" N	92°45'58.64" E																		
		29.	25°30'46.06" N	92°45'57.33" E																		
		30.	25°30'40.46" N	92°45'54.05" E																		
		31.	25°30'36.60" N	92°45'50.02" E																		
		32.	25°30'31.24" N	92°45'51.33" E																		
		33.	25°30'29.77" N	92°45'57.61" E																		
		34.	25°30'30.44" N	92°46'00.16" E																		
		35.	25°30'32.38" N	92°46'00.48" E																		
		36.	25°30'37.46" N	92°45'57.19" E																		
g.	Total land	29.14 ha																				
h.	Land acquisition details as per MoEF&CC O.M. dated 7/10/2014	Total land 29.14 ha (Existing - 20.07 + Additional Contiguous area 6.37 ha for Expansion + 2.7 ha Proposed Residential Colony) is under the possession of the company.																				
i.	Existence of habitation & involvement of R&R, if any	Nil																				
j.	Elevation of the project site	469-544 m AMSL																				
k.	Involvement of Forest land if any.	Nil																				
l.	Water body exists within the project site as well as study area	<p>Project site: Nil.</p> <p>Study area:</p> <table border="1"> <thead> <tr> <th>Water Body</th> <th>Distance</th> <th>Direction</th> </tr> </thead> <tbody> <tr> <td>Umrong Reservoir</td> <td>3.0 km</td> <td>West</td> </tr> <tr> <td>Langyen Nadi</td> <td>5.0 km</td> <td>ENE</td> </tr> <tr> <td>Longlai River</td> <td>6.0 km</td> <td>SE</td> </tr> <tr> <td>Mongle Nadi</td> <td>8.5 km</td> <td>ENE</td> </tr> <tr> <td>Kopili River</td> <td>9.0 km</td> <td>NNW</td> </tr> </tbody> </table>			Water Body	Distance	Direction	Umrong Reservoir	3.0 km	West	Langyen Nadi	5.0 km	ENE	Longlai River	6.0 km	SE	Mongle Nadi	8.5 km	ENE	Kopili River	9.0 km	NNW
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m.	Existence of ESZ / ESA / national park / wildlife Sanctuary / biosphere Reserve / tiger reserve / elephant reserve etc. if any within the study area	<p>Nil.</p> <p>However, following Reserved Forest is located in study area: Krungming RF (0.2 km in NNW direction)</p>																				

S No	Particulars	Details
n.	Project cost	INR 180.0 Crores
o.	EMP cost	INR 5.5 Crores
p.	Employment opportunity	726
q.	Water and Power requirement	Water – 975 m ³ /day, Power – 14 MW

Unit configuration and capacity:

S No	Plant Equipment/ Facility	Existing Facilities as per EC dated 12 th January, 2016		Proposed Unit (By optimization & modification)		Final (Existing + Proposed)	
		Configuration	Capacity	Configuration	Capacity	Configuration	Capacity
1.	Clinker	Kiln: 3400 TPD	0.98 MTPA	1200 TPD	0.54 MTPA	Kiln: 4600 TPD	1.52 MTPA
2.	WHRS	-	-	8 MW	8 MW	8 MW	8 MW

5. The EAC, in its 53rd meeting of Re-Constituted Expert Appraisal Committee (Industry-1 Sector) held on 10-11th February, 2022, 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 conditions as detailed in the paragraph given below.
6. The MoEF&CC has examined the proposal in accordance with the Environment Impact Assessment (EIA) Notification, 2006 & further amendments thereto and after accepting the recommendations of the Expert Appraisal Committee (Industry-1) hereby decided to grant Environment Clearance for instant proposal of **M/s. Calcom Cement India Limited** under the provisions of EIA Notification, 2006 subject to the following specific conditions and general conditions:

A. Specific Conditions:

- i. Particulate matter emissions from all the stacks shall be less than 30 mg/Nm³.
- ii. 975 KLD water shall be sourced from Langai River flowing 6 km from site. Ground water withdrawal is not permitted.
- iii. Green belt shall be developed in 9.63 ha area all along the entire periphery of the area with a density of 2500 trees per ha by 31st December, 2023 as committed. Additionally, 20,000 trees shall be planted outside the project site shall be brought under avenue plantation as committed by the proponent.
- iv. Thermal Energy consumption for the kiln shall be less than 720 Kcal/ton for clinker as committed by the proponent.
- v. DeSOx system shall be provided dry type. NOx level shall be maintained below 600 mg/Nm³ by using best available technology.
- vi. 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.
- vii. Slip roads shall be provided at the gates and along crossings on main roads.
- viii. 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.
- ix. 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.
- x. 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.
- xi. Project proponent shall develop separate drainage system for storm water and industrial waste water and effectively prevent the pollution of natural waterbody.

- xii. Project proponent shall comply with the all the observations as mentioned in the IRO report dated 28/03/2022 by 31/12/2022 except for green belt development by 31/12/2023.

B. General Conditions

I. Statutory compliance

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

II. Air quality monitoring and preservation

- i. The project proponent shall install 24x7 Continuous Emission Monitoring System (CEMS) at process stacks to monitor stack emission as well as 4 Nos. Continuous Ambient Air Quality Station (CAAQS) for monitoring AAQ parameters with respect to standards prescribed in Environment (Protection) Rules 1986 as amended from time to time. The CEMS and CAAQMS shall be connected to SPCB and CPCB online servers and calibrate these systems from time to time according to equipment supplier specification through labs recognized under Environment (Protection) Act, 1986 or NABL accredited laboratories.
- ii. The project proponent shall monitor fugitive emissions in the plant premises at least once in every quarter through labs recognized under Environment (Protection) Act, 1986.
- iii. The project proponent shall provide leakage detection and mechanized bag cleaning facilities for better maintenance of bags.
- iv. The project proponent shall ensure covered transportation and conveying of ore, coal and other raw material to prevent spillage and dust generation; Use closed bulkers for carrying fly ash;
- v. The project proponent shall provide wind shelter fence and chemical spraying on the raw material stock piles;
- vi. Ventilation system shall be designed for adequate air changes as per the prevailing norms for all tunnels, motor houses, and cement bagging plants.

III. Water quality monitoring and preservation

- i. The project proponent shall install 24x7 continuous effluent monitoring system with respect to standards prescribed in Environment (Protection) Rules 1986 vide G.S.R. No. 612 (E) dated 25th August, 2014 (Cement) and subsequent amendment dated 9th May, 2016 (Cement) and 10th May, 2016 (in case of Co-processing Cement) as amended from time to time; S.O. 3305 (E) dated 7th December 2015 (Thermal Power Plants) as amended from time to time) and connected to SPCB and CPCB online servers and calibrate these system from time to time according to equipment supplier specification through labs recognized under Environment (Protection) Act, 1986 or NABL accredited laboratories.
- ii. The project proponent shall regularly monitor ground water quality at least twice a year (pre- and post-monsoon) at sufficient numbers of piezometers/sampling wells in the plant and adjacent areas through labs recognized under Environment (Protection) Act, 1986 and NABL accredited laboratories.
- iii. Sewage Treatment Plant shall be provided for treatment of domestic wastewater to meet the prescribed standards.

- iv. Garland drains and collection pits shall be provided for each stock pile to arrest the run-off in the event of heavy rains and to check the water pollution due to surface run off
- v. Water meters shall be provided at the inlet to all unit processes in the cement plant.
- vi. The project proponent shall make efforts to minimize water consumption in the cement plant complex by segregation of used water, practicing cascade use and by recycling treated water.

IV. Noise monitoring and prevention

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

V. Energy Conservation measures

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

VI. Waste management

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

VII. Green Belt

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

VIII. Public hearing and Human health issues

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

IX. Environment Management

- i. The project proponent shall comply with the provisions contained in this Ministry's OM vide F.No. 22-65/2017-IA.III dated 30/09/2020.
- ii. The company shall have a well laid down environmental policy duly 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.

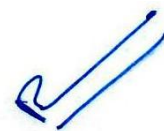
- iii. A separate Environmental Cell both at the project and company head quarter level, with qualified personnel shall be set up under the control of senior Executive, who will directly to the head of the organization.

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, NO_x (ambient levels as well as stack emissions) or critical sectoral parameters, indicated for the projects and display the same at a convenient location for disclosure to the public and put on the website of the company.
- v. The project proponent shall submit six-monthly reports on the status of the compliance of the stipulated environmental conditions on the website of the ministry of Environment, Forest and Climate Change at environment clearance portal.
- vi. The project proponent shall submit the environmental statement for each financial year in Form-V to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently and put on the website of the company.
- vii. The project proponent shall inform the Regional Office as well as the Ministry, the date of financial closure and final approval of the project by the concerned authorities, commencing the land development work and start of production operation by the project.
- viii. The project proponent shall abide by all the commitments and recommendations made in the EIA/EMP report, commitment made during Public Hearing and also that during their presentation to the Expert Appraisal Committee.
- ix. No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment, Forests and Climate Change (MoEF&CC).
- x. Concealing factual data or submission of false/fabricated data may result in revocation of this environmental clearance and attract action under the provisions of Environment (Protection) Act, 1986.
- xi. The Ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.
- xii. The Ministry reserves the right to stipulate additional conditions if found necessary. The Company in a time bound manner shall implement these conditions.
- xiii. The Regional Office of this Ministry shall monitor compliance of the stipulated conditions. The project authorities should extend full cooperation to the officer (s) of the Regional Office by furnishing the requisite data / information/monitoring reports.

xiv. Any appeal against this EC shall lie with the National Green Tribunal, if preferred, within a period of 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.

7. This issues with the approval of the Competent Authority.



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

Encl. as above at Annexure

Copy to: -

1. Secretary, Department of Environment, Government of Assam, Assam Secretariat, Guwahati-781 006.
2. Chief Wildlife Warden, Govt. of Assam, Basistha Forest Complex, Guwahati-781029.
3. Chairman, Central Pollution Control Board, Parivesh Bhawan, CBD-cum-Office Complex, East Arjun Nagar, Delhi-110032.
4. Regional Officer, Ministry of Environment, Forest and Climate Change, Integrated Regional Office, 4th Floor, HOUSEFED Building, G.S. Road Rukminigaon, Guwahati – 781022.
5. Chairman, Assam Pollution Control Board, Bamunimaidan, Guwahati-781 021
6. Member Secretary, Central Ground Water Authority, A2, W3 Curzon Road Barracks, K.G. Marg, New Delhi-110001.
7. District Collector, Dima Hasao District, Assam.
8. Guard File/Record File/Monitoring File.
9. MoEF&CC Website/Parivesh Portal



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

Annexure

S No.	Physical activity to be done	Unit of Measurement			Cost (Rs. Cr.)
		01 st Year	02 nd Year	03 rd Year	
1.	Development of Sports Gallery	0	01 (Village Dithur)		0.15
2.	Construction of Class room building at JB Hagjer Degree College at Voarkplak	0	01 JB Hagjer Degree College at Voarkplak	0	0.21
3.	Plantation @ nearby schools	5,000 (JDSVM, LWDMS, Garampani High School)	2500 (Umrangso 19 Kilo L.P school)	2,500 (Umrangso CHC, Karbi and Tularam Club Campus)	0.20
4.	Installation of Solar Street Light in nearby villages	15 (Village Langcherui & Dithur)	15 (Village Miyungpur, Amramlangso)	15 (Village Langmeklu)	0.09
5.	Construction of Ring Wells	02 Village Langcherui, Krungthai, 18 Kilo, 16 Kilo	02 Village Rongkhelan, Chotolokhindong	06 Village Tharvelangso	0.15
6.	Cultural stage at Rongarting	0	01		0.30
7.	Construction of Community Hall	01 Village Umrangso, 19 Kilo	01 Village Kamala Bagan	0	0.30
8.	Construction of Road	6 km (3 Meter width) from Umrangso 19 Kilo to Hanjanglangso	3 km (3 Meter width) From Lanka USO Road to Amramlangso	2 km (3 Meter width) From Green Market to Nepali Basti	0.21
9.	Ginger and turmeric drying & grinding unit with storage facilities at Umrangso proper	0	0	01	0.12
10.	Skill Training at Calcom Skill centre at Lanka (Local youths from nearby villages like Langcherui, Dithur, Kamala Nagar, Umrangso 19 Kilo will be trained at our Lanka centre with all expenses borne by Company)	12 Persons	12 Persons	12 Persons	0.18
11.	Infrastructure improvement of nearby schools like development of smart classrooms, toilets, improving sanitation facilities, sports facilities and boundary walls etc.	Dithur lower lp school 9 boundary wall & toilet – 1 No)	Lovely Well Memorial School Umrangso, 2 no Girls toilets, 1 no Computer lab (5 no computers) and construction of boundary wall	Lnagmeklu ME School (2 no construction of class rooms-1 and 1 computer lab (5 Nos computer), 2 nos Girls Toilets, 1 no of RO	0.9
Total cost allocated for the Socio-economic developmental activities					2.81
