

To
The Member Secretary,
State Level Environment Impact Assessment Authority, Jharkhand
Nursery Complex, Near Dhurwa Bus Stand, Dhurwa,
Ranchi-Jharkhand -834004

Date: 29.11.2022

Subject: Half yearly Environment Clearance (EC) Compliance report of Bokaro Cement Manufacturing works unit of Dalmia Cement (Bharat) Limited for the period of April 2022 to September 2022.

Ref: EC Letter no: EC/SEIAA/2021-22/2534/2022/27, Ranchi, Date: 21.04.2022, EC Identification no.EC22B009JH152802

Dear Sir,

Please find enclosed herewith half yearly Environment Clearance compliance report of Bokaro Cement Manufacturing works unit of Dalmia Cement (Bharat) Limited, Bokaro, Jharkhand for the period of April '2022 to September '2022 for your kind perusal.

Thanking you.

Yours Sincerely,

For M/s. Dalmia Cement (Bharat) Limited.
(Unit: Bokaro Cement Manufacturing works)



Authorized Signatory

Copy:

1. The Director, Ministry of Environment, Forest and Climate Change,
2nd Floor, Headquarter-Jharkhand State Housing Board, Harmu Chowk, Ranchi,
Jharkhand - 834002
2. The Member Secretary, Central Pollution Control Board, Parivesh Bhavan,
East Arjun Nagar, Delhi-110032
3. The Member Secretary, Jharkhand State Pollution Control Board, Township
Administration Building, HEC Complex, Dhurwa, Ranchi-834004
4. Regional Environmental Officer, Jharkhand State Pollution Control Board
Dhanbad, HIG-1, Sardar Patel Nagar, Hirapur Dhanbad-826001

Enclosed:

1. EC Compliance Report
2. Annexure -I to XI

Dalmia Cement (Bharat) Limited

Unit : Bokaro Cement Manufacturing Works

Plot No. IV/A-7(P)4, Bokaro Industrial Area, Balidih, Bokaro Steel City, Bokaro-827014, Jharkhand, India
T +91 6542 253 278 / +91 6542 253 047 Toll Free 1800 2020 W www.dalmiacement.com CIN:U65191TN1996PLC035963
Registered Office : Dalmiapuram, District Tiruchirappalli, Tamil Nadu - 621 651, India.
A Dalmia Bharat Group Company, www.dalmiabharat.com

Bokaro Cement Manufacturing Works
(A Greenfield Standalone Grinding Unit of Dalmia Cement (Bharat) Limited)

At Plot No. IV/a-7(p)4, Village- Gorabali, Notified Bokaro Industrial Area Under JIADA,
Balidih Phase-4, Bokaro, Jharkhand

STATUS OF COMPLIANCE OF ENVIRONMENTAL CLEARANCE

EC Letter no: EC/SEIAA/2021-22/2534/2022/27, Ranchi, Date: 21.04.2022, EC Identification no.EC22B009JH152802

S. No.	EC Conditions	Compliance
I Specific Conditions as recommended by SEAC		
i	100 % transportation of raw material by rail and 70% product by rail must be ensured.	To be complied Plant is under construction and stipulated condition shall be abided during operation of plant.
ii	Environment management system to be drawn to ensure compliance of EC conditions stipulated based on principles of continual improvement and periodical management review	To be complied The Company has a well laid down corporate Environmental Policy governed by all the units and head office. Accordingly, a full-fledged Environmental Management Cell (EMC) for environmental monitoring and control will be established. The hierarchical system or administrative order of the Company is attached as an Annexure I .
iii	Rooftop rain water harvesting to ensure 100% Recharge /Use of rainfall. Storm water runoff to be collected in collection chamber/settling pond and maximize its use.	To be complied. Plant is under construction. Necessary provision for Rooftop rain water harvesting has already been included in the plant layout to comply during operation.
iv	All raw material to be stored only under covered shed.	To be complied. Necessary provision has been included in the detailed engineering and will be complied during operation phase. Photograph of clinker silo is attached as Annexure II
v	PAs to ensure ZERO Discharge for its process discharges.	To be complied. The plant has been designed keeping the same to comply during operation.
vi	PAs to offset (>20%) consumption of conventional energy sources by promoting use of solar energy, passive energy utilization optimum fenestration, shading effect and heat islands.	To be complied. DCBL proposes to install roof-top solar panels towards its green initiatives. Solar based LED lights instead of conventional lighting will also be installed in Plant. However, presently plant is in advance state

S. No.	EC Conditions	Compliance
		of construction. Operation of plant has not been started yet.
vii	The environmental clearance is subject to the permission for supply of water from a competent authority.	Complied. The permission for water connection has been given by Drinking Water and Sanitation Sub-Division, Bokaro vide letter no 36 dated 13.04.2022. The same is attached herewith as an Annexure-III .
viii	The baseline data & Modeling for the month of March 22 is to be collected by the consultant AMPL Environ Pvt Ltd. Hyderabad and submitted to SEIAA/SEAC within April 2022.	Complied. Environment base line data & Modeling report for the month of March 2022 done by Star Analytical Services, empaneled lab of AMPL Environ PVT Ltd. Hyderabad, has been submitted to SEIAA, Jharkhand in April 2022. The same is also attached herewith as an Annexure-IV .
Specific Conditions		
i.	This Environmental Clearance is valid subject to the following condition below — That this project has- a. Obtained all legal rights to operate at concerned place. b. Complied with all existing concerned laws of the land and Complied with the decisions of SEIAA on the issue of Environmental Clearance till date.	Complied The project is located in Notified Industrial area. The land is allotted by JIADA to DCBL at Plot No. IV/A-7(P)4, Notified Bokaro Industrial Area Balidih Phase-4, Bokaro-827014, Jharkhand and is in possession of DCBL. CTE obtained from JSPCB and construction of plant has been started after obtaining all statutory clearances.
I. Statutory Compliance		
1.	The project proponent shall obtain all necessary clearance under the provision of Forest (Conservation) Act. 1986, in case of the diversion of forest land for non-forest purpose involved in the project.	Not Applicable as there is No Forest land in plant area. The unit is located in notified Industrial area at JIADA, Bokaro, Jharkhand with due allocation through Govt of Jharkhand. Obtained all necessary statutory clearance to operate the plant.
2.	The project proponent shall obtain clearance from the National Board for Wildlife, if applicable.	This clause is not applicable on our unit, as there is no wild life sanctuary within 10km radius of our unit. NOC of DFO Territorial & DFO Wildlife in this regard has been obtained vide Letter no. 3546 dated 21.12.2021 and 2058 dated 28.11.2021 respectively. The same was submitted

S. No.	EC Conditions	Compliance
		during appraisal of plant and also is attached herewith as Annexure V & VI .
3	The project proponent shall prepare a Site-Specific Conservation Plan & Wildlife Management Plan and approved by the Chief Wildlife Warden. The recommendations of the approved Site-Specific conservation Plan/ Wildlife Management Plan shall be implemented in consultation with the State Forest Department. The implementation report shall be furnished along with six- monthly compliance report. (in case of the presence of schedule –I species in the study area)	Not Applicable The unit is located in notified industrial area at JIADA, Bokaro. There is no record of schedule –I species within 10km radius of our unit. Hence this condition is not applicable.
4	The project proponent shall obtain Consent to Establish / Operate under the provisions of Air (Prevention & Control of Pollution) Act, 1981 and the Water (Prevention & Control of Pollution) Act" 1974 from the concerned State Pollution Control Board/ Committee.	Is being complied. Our unit has obtained CTE from JSPCB, Ranchi vide letter no JSPCB/ HO/RNC/CTE-12699959/2022/195, Dated 28.04.2022 and attached as Annexure-VII . Plant is under construction. CTO will be obtained before commencement of operation of unit.
5	The project proponent shall obtain the necessary permission from the Central Ground Water Authority, in case of for drawl of ground water / from the competent authority concerned in case of drawl of surface water required for the project.	Complied. The permission for water connection has been given by Drinking Water and Sanitation Sub-Division, Bokaro vide letter no 36 dated 13.04.2022. The same is attached herewith as an Annexure-II .
6	The project proponent shall obtain authorization under the Hazardous and other Waste Management Rules 2016 as amended from time to time.	To be complied. Authorization under the Hazardous and other Waste Management Rules 2016 will be obtained before commencement of operation of the plant.
7	No mining/ activity shall be undertaken in the forest land or deemed forest without obtaining requisite prior forestry clearance.	Not Applicable
8	This Environmental clearance is granted subject to final outcome of Hon'ble Supreme Court of India. Hon'ble High Court. Hon'ble NGT, MoEF&CC and any other Court of Law. If any, as may be applicable to this project.	Noted
9	Environmental clearance is subject to obtaining prior clearance from forestry	Not Applicable and EC has already been obtained

S. No.	EC Conditions	Compliance
	and Wildlife angle including clearance from standing committee of NBWL, as may be applicable to this project (in case any fauna occurs/ is found in the project area or if the area involves forest land or wildlife habitat i.e. core zone of elephant /tiger reserve etc. and or located within 10 km. of protected area.)	
10	The project proponent may apply simultaneously for forest and NBWL clearance, in order to complete the formalities without undue delay, which will process on their respective merits, no rights will vest in or accrue to them unless all clearances are obtained.	Not Applicable.
II. Air quality monitoring and preservation		
1	The project proponent shall install 24 x 7 continuous emission monitoring system at process stacks to monitor stack emission with respect to standards prescribed in Environment (Protection) Rules 1986 vide G.S.R no 612 (E) dated 25 August 2014 (Cement) and subsequent amendment dated 9 th May 2016 (Cement) 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.	To be complied during operation of Plant. Plant is in advance stage of construction. 24 x 7 continuous emission monitoring system at process stacks will be installed to monitor stack emission with respect to standards prescribed in Environment (Protection) Rules 1986 vide G.S.R no 612 (E) dated 25 August 2014 (Cement) and subsequent amendment dated 9 th May 2016 (Cement) and connected to SPCB and CPCB online servers. This will be regularly calibrated.
2	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	Noted for compliance during operation of Plant.
3	The project proponent shall install system to carryout 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 emission) within and outside the plant area at an angle of 120-degree each)	Noted for compliance during operation of Plant.

S. No.	EC Conditions	Compliance
	covering upwind and downwind directions. (case to case basis small plant: Manual: large plants: Continuous)	
4	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	Noted for compliance during operation of Plant.
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.	Noted for compliance during operation of Plant. Bag House at the VRM and 31 Bag filters will be installed at all the material transfer and handling point to keep the emission within the standard specified by MOEFCC/CPCB. List of the same is attached as Annexure VIII
6	The project shall provide leakage detection and mechanized bag cleaning facilities for better maintenance of bags.	Noted for compliance Regular maintenance of bag filters, leakage checking, cleaning of bag filter will be done by dedicated mechanical maintenance team as per schedule.
7	Pollution control system in the cement plant shall be provided as per the CREP Guidelines of CPCB	Noted for compliance during operation. Project is only grinding unit, Clinkerisation is not involved. Applicable Pollution control measures as per CREP guideline of CPCB will be implemented.
8	Sufficient number of mobile or stationary vacuum cleaners shall be provided to clean plant roads, shop floors, roofs, regularly.	The condition will be complied during operational phase of the project.
9	Ensure covered transportation and conveying of raw material to prevent spillage and dust generation; use closed bulkers for carrying fly ash.	Noted for compliance All raw materials/products will be transferred within plant by covered conveyor belt. Inward & outward transportation of Raw materials & products will be done in covered tarpaulin trucks/ bulkers/ rail to control material spillage as well as fugitive dust emission.
10	Provide wind shelter fence and chemical spraying on the raw material stock piles	Noted for compliance All the raw material, fuel and products will be stored within the covered storage yard and silos.

S. No.	EC Conditions	Compliance
11	Have separate truck parking area and monitor vehicular emissions at regular interval.	Noted for compliance PUC certified Construction equipment as well as trucks will be deployed during the construction and operation phase to restrict exhaust emission. Separate truck parking facility will be provided during operation phase. Regular checking of vehicles PUC certificates will be done to control of vehicular emission.
12	Efforts shall be made to reduce impact of the transport of the raw materials and end product on the surrounding environment including agricultural land by the use of covered conveyor belts/railways as a mode of transport.	Noted for compliance during operation phase Plant is under construction and operation is yet to commenced. During the operation of the plant, all measures, detailed in PFR & EMP report, shall be implemented to reduce impact of the transport. Covered conveyor belt will be used for transportation of raw material & product within plant. All raw materials and products will be transported in covered trucks, bulkers, and railways to reduce the fugitive dust emission. Regular water sprinkling will be done on the roads within plant through water spray tanker to control of fugitive dust emission.
13	Ventilation system shall be designed for adequate air changes as per ACGIH Document for all tunnels, motor houses, and cement bagging plants.	The condition will be complied during operational phase of the project.
III. Water quality monitoring and preservation		
1	The project proponent shall install effluent monitoring system with respect to standards prescribed in Environment (Protection) Rules 1986 vide G.S.R No. 612 € dated 25 th August, 2014 (Cement) and subsequent amendment dated 9 th May, 2016 (Cement) and 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. (case to case basis small plants: Manual: Large plants: Continuous).	There is no requirement of water for manufacturing process. Water will be required for cooling of equipment/machinery in closed loop & dust suppression. The water is either consumed or recycled, hence no effluent generation is foreseen. In view of this effluent monitoring system is not relevant for our unit.

S. No.	EC Conditions	Compliance
2	The project proponent shall monitor regularly ground water quality at least twice a year (pre and post monsoon) sufficient numbers of piezometers/sampling wells in the plant and adjacent areas through labs recognized under Environment (Protection) Act.1986 and NABL accredited laboratories.	Not Applicable. Ground water withdrawal is not proposed for the plant. There will not be any effluent generation from the plant. Sewage will be properly treated in STP and treated water will be used within plant for greenbelt development.
3	The project proponent shall submit monthly summary report of continuous effluent monitoring and results of manual effluents testing and manual monitoring of ground water quality to Regional Office of MoEF&CC. Zonal office of CPCB and Regional Office of SPCB along with six-monthly monitoring report.	The condition will be complied during operational phase of the project.
4	Adhere to 'Zero Liquid Damage'	Noted to comply.
5	Sewage Treatment Plant shall be provided for treatment of domestic wastewater to meet the prescribed standards.	Noted for compliance During operation phase, STP will be installed The condition will be complied during operational phase of the project.
6	Garland drains and collection pits shall be provided for each stock piles to arrest the run-off in the event of heavy rains and to check the water pollution due to surface run-off.	Noted for compliance during operation phase
7	The project proponent shall practice rainwater harvesting to maximum possible extent.	Noted for compliance Roof top storm water will be collected and will be used for various plant activities.
8	Water meter shall be provided at the inlet to all unit processes to maximum possible extent.	Noted for compliance
9	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.	Optimum use of water will be practiced and All necessary efforts will be made to reduce water consumption in our plant. Sewage will be treated in STP and treated water will be reused for greenbelt & dust suppression. water will be reused for greenbelt & dust suppression
IV. Noise monitoring and prevention		
1	Noise level survey shall be carried as per the prescribed guidelines and report in this regard shall be submitted to Regional	Noted for compliance Noise level will be regularly monitored in different locations of Unit as per the

S. No.	EC Conditions	Compliance
	Officer of the Ministry as a part of six-monthly compliance report.	prescribed guidelines and will be submitted to Regional Officer of the Ministry along with Half Yearly Compliance Report.
2	Ambient noise levels shall conform to the standards prescribed under EPA rules viz. 75dB (A) during day time and 70db (A) during night time.	Noted for compliance during operation phase
V. Energy Conservation measures:		
1	Provide solar power generation on rooftops of buildings, for solar light system for all common areas, street lights, parking around project area and maintain the same regularly.	Noted for compliance during operation phase DCBL proposes to install roof-top solar panels towards its green initiatives. Solar based LED lights instead of conventional lighting will also be installed in Plant. However, presently plant is in advance state of construction. Operation of plant has not been started yet.
2	Provide the project proponent for LED lights in their offices and residential areas.	Noted for compliance Solar based LED lights instead of conventional lighting will also be installed in Plant.
3	Maximize utilization of fly ash, slag and sweetener in cement blend as per BIS Standards.	Noted for compliance Proposed unit will manufacture Portland Slag Cement (PSC) using waste products such as Slag (about 65 %) as per BIS norms.
VI. Waste Management		
1	The waste oil, grease and other hazardous waste shall be disposed off as per the Hazardous & other waste (Management & Transboundary Movement) Rules 2016.	The condition will be complied during operational phase of the project.
2	Kitchen waste shall be composted or composted or converted to biogas for further use.(to be decided on case to case basis depending on type and size of plant).	The condition will be complied during operational phase of the project. Kitchen waste will be composted and manure will be used in greenbelt development.
VII. Green Belt		
1	Green belt shall be developed in an area equal to 33% of the plant area with a native tree species in accordance with CPCB guidelines. The greenbelt shall inter alia cover the entire periphery of the plant.	Noted the condition. Greenbelt/plantation will be done over 33% of the total project area i.e., about 5.2 acres (2.105 ha). The green belt will inter alia cover the entire periphery of the plant. Native species with large canopy will be selected for plantation in accordance with CPCB guidelines.

S. No.	EC Conditions	Compliance
2	The project proponent shall prepare GHG emission inventory for the plant and shall submit the program for reduction of the same including carbon sequestration including plantation.	Noted the condition.
VIII. Public Hearing and Human Health issues:		
1	Emergency preparedness plan based on the Hazard identification and Risk Assessment (HIRA) and Disaster Management Plan shall be implemented	Noted the condition. On site emergency Preparedness plan, Hazard identification and Risk Assessment (HIRA) will be prepared and same will be approved by Chief Factory Inspector of Jharkhand.
2	The PP shall provide Personal Protection Equipment (PPE) as per the norms of factory act.	Noted for compliance All Personal protective equipment's (PPE) Safety shoes, Nose mask, safety helmet, earplug, will be provided to all employees and contract workers for their safety. Safety training will be regularly given to the employees for the awareness of safe working culture.
3	Provision shall be made for the housing of construction labor within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile STP, safe drinking water, medical health care, crèche etc. The housing may be in the form of temporary structures to be removed after the completion of the project.	Being Complied. Local people are employed for the construction purpose. No housing facilities will be required for them. However, all necessary infrastructure / facility is being provided to construction labour for the ongoing construction work. Also the amenities available in the adjacent unit are made accessible.
4	Occupational health surveillance of the workers shall be done on a regular basis and records maintained as per the Factories Act.	Periodic medical health checkup of employees and workers will be done for every six months. Reports will be maintained as per Factory Act.
IX. Corporate Environment Responsibility:		
1	The project proponent shall comply with the provisions contained in this Ministry's OM vide F. No. 22-65/2017-14. III dated 1 st May 2018, as applicable, regarding Corporate Environment Responsibility.	Noted for compliance. The company proposes to invest around 1.5 Crores on the various socio-economic developmental activities on the basis of findings of Participatory rural appraisal which will be conducted periodically by DBF. All socio-economic developmental activities mentioned in submitted PFR & EMP report

S. No.	EC Conditions	Compliance
		will be implemented. Apart, from this, company will spend 2% of the profit for implementation of various developmental activities for the nearby area as part of Corporate Social Responsibility Under Section 135 of Companies Act 2013 once plant commences operation.
2	The company shall have a well laid down environmental policy duly approved by the Board of Directors. The environmental policy should prescribe for standard operating procedures to have proper checks and balances and to bring into focus any infringements/ deviation/violation of the environmental / forest / wildlife norms / conditions. The company shall have defined system of reporting infringements / deviation / violation of the environmental / forest / wildlife norms / conditions and I or shareholders / stakeholders. The copy of the board resolution in this regard shall be submitted to the MoEF&CC as a part of six-monthly report.	The Company has a well laid down corporate Environmental Policy governed by all the units and head office. Accordingly, a full-fledged Environmental Management Cell (EMC) for environmental monitoring and control will be established. The hierarchical system or administrative order of the Company is attached as an Annexure I .
3	A separate Environmental Cell both at the project and company head quarter level, with qualified personnel shall be set up under the control senior Executive, who will directly report of the head of the organization.	Complied. Environment Management Cell has been established at our plant as well as at Corporate headquarter for the management of environmental activities with qualified person. Environment management cell is headed by Executive Director (Plant Head).
4	Action plan for implementing EMP and environmental conditions along with responsibility matrix of the company shall be prepared and shall be duly approved by competent authority. The year wise funds earmarked for environmental protection measures shall be kept in separate account and not to be diverted for any other purpose. Year wise progress of implementation of action plan shall be reported to the SEIAA/Ministry, Regional office along with the six Monthly compliance Report.	Complied and will be complied during operation phase. Action plan for EMP Implementation during construction phase is in place. Separate budget allocated for Environment Protection. It is ensured that budget shall not be diverted for any other purpose. Expenditure on environmental protection will be regularly submitted to Ministry and his Regional Office as a part of Six Monthly EC compliance report.
5	Self-environmental audit shall be conducted annually. Every three years	The condition will be complied during operational phase of the project.

S. No.	EC Conditions	Compliance
	third party environmental audit shall be carried out.	
6	All the recommendations made in the Charter on Corporate Responsibility for Environment Protection (CREP) for the cement plants shall be implemented.	Noted for compliance during operation. Project is only grinding unit, Clinkerisation is not involved. Applicable Pollution control measures as per CREP guideline of CPCB will be implemented.
XI. Miscellaneous:		
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 newspaper 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.	Complied A public notice informing about grant of EC has been published in two newspapers named "The Pioneer" and "Aaj" on 25.04.2022 in English as well as in vernacular language i.e. Hindi. Copy of Advertisements are attached herewith as an Annexure IX . The Newspapers with advertisement along with copy of EC have been submitted to the Regional Office of MoEFCC, MS-SEIAA and MS- JSPCB. Copy of submission receipts are attached herewith as an Annexure-X .
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.	Complied. We have submitted copy of Environment Clearance to Regional Office of MoEFCC, MS-SEIAA, MS- JSPCB, local Panchayat and other Govt. bodies, district head quarter. Copy of submission receipts are attached herewith as an Annexure-X
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.	Noted for compliance.
4	The project proponent shall monitor the criteria pollutants level namely; PM 10, SO ₂ , 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.	The condition will be complied during operational phase of the project.
5	The project proponent shall submit six-monthly reports on the status of the compliance of the stipulated	Shall be complied.

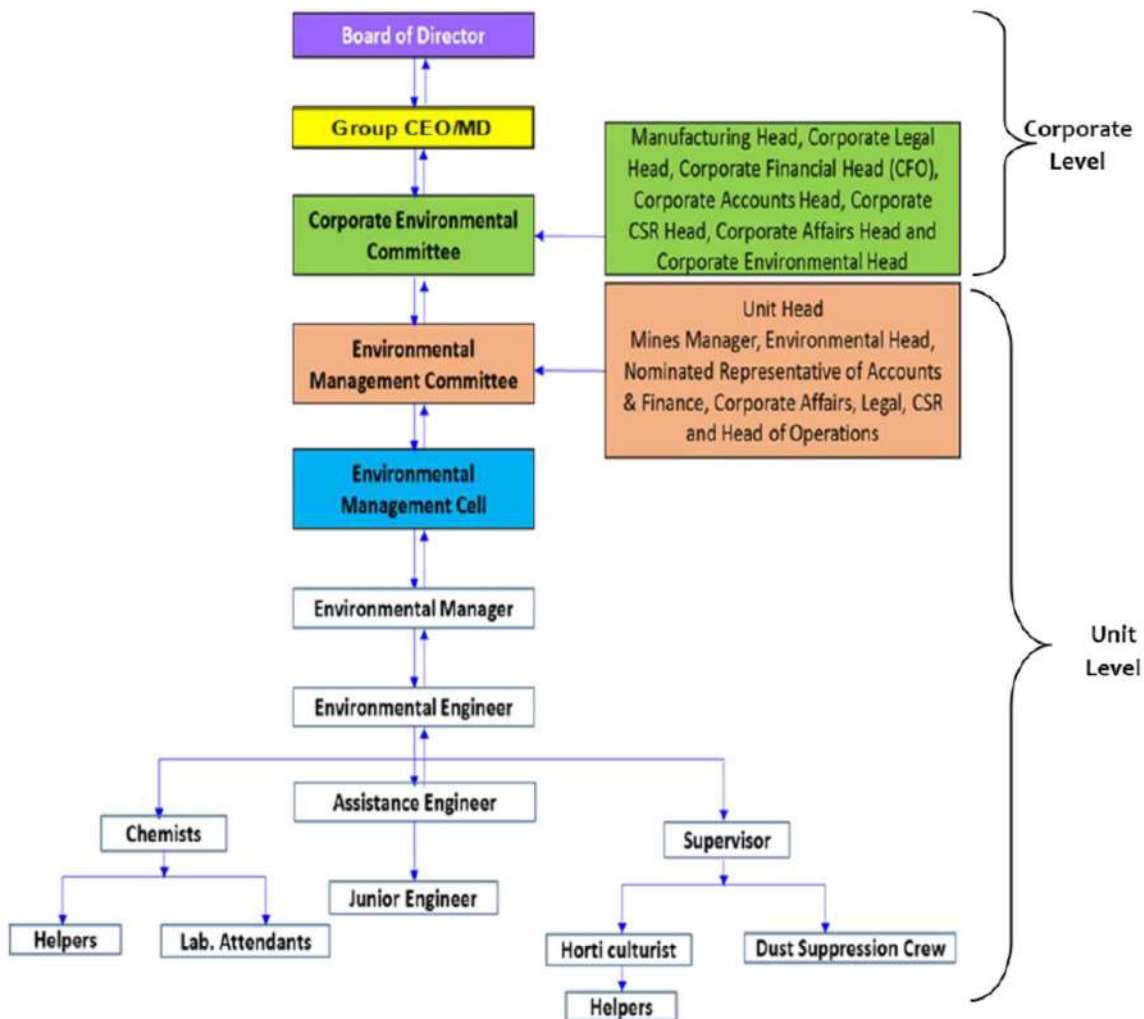
S. No.	EC Conditions	Compliance
	environmental conditions on the website of the ministry of Environment, Forest and Climate Change at environment clearance portal.	
6	The project proponent shall submit the environmental statement for each financial year in Form-V to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently and put on the website of the company.	The condition will be complied during operational phase of the project.
7	The project proponent shall inform the Regional Office as well as 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.	Date of final approval: 1 st May'2022 Date of start of Land development work: 29.04.2022 Date of Production date: Yet to start production as plant is under construction phase. Photographs of construction attached herewith as an Annexure XI . Date of financial closure: Will be informed to Regional Office as well as Ministry.
7.1	The project authorities must strictly adhere to the stipulation made by the State Pollution Control Board and the State Government.	Noted for compliance.
7.2	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.	To be complied during operation of plant
8	It shall be mandatory for the project management to submit six (06) monthly compliance report in respect of the stipulated prior environmental clearance terms and conditions in hard copies and soft copies to the regulatory authority concerned SEIAA, Regional Office of MoEF & CC at Ranchi, Jharkhand State Pollution Control Board (J.S.P.C.B), Ranchi, and Central Pollution Control Board.(CPCB)	Noted for compliance
9	Concealing factual data or submission of false/fabricated data and failure to comply with any of the conditions mentioned above may result in	Noted & agreed.

S. No.	EC Conditions	Compliance
	withdrawal of this clearance and attract action under the provisions of Environment (Protection) Act, 1986.	
10	The SEIAA, Jharkhand or any other competent Authority may alter modify the above conditions or stipulate any further conditions in the	Noted & agreed
11	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)	Noted & agreed
12	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.	Noted & agreed
13	The Ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.	Noted & agreed
14	The ministry may reserves the right to stipulate additional conditions if found necessary. The company in a time bound manner shall implement these conditions.	Noted & agreed
15	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.	Noted & agreed
16	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.	Noted & agreed

S. No.	EC Conditions	Compliance
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.	Noted & agreed
18	This environmental clearance is valid for seven years from the date of issue.	Noted & Agreed

BUSINESS RESPONSIBILITY MATRIX

The hierarchical system or administrative order of the Company to address the nine principles prescribed by SEBI and other compliances including regulatory approvals viz Environmental Clearance, Consent to Operate etc.





Clinker silo wall slipping in progress

Water permission letter from competent authority

Office of the Sub-Divisional Officer
Drinking Water and Sanitation Sub-Division, Bokaro

Letter No. 36

Chas, Dated 13/4/22

To,

Regional Director
BIADA, Bokaro

Sub: Regarding Water Connection for M/S Dalmia cement (Bharat) Ltd. under BIADA.

Reference: Your letter no. 35 dated 25.01.22, 185 dated 05.04.22, this office letter no 24 dated 24.02.22 and agreement for water supply between unit and BIADA on dated 17.3.11

Madam,

With reference to the above cited subject, M/S Dalmia cement (Bharat) Ltd is asking for another 1.50 Lakhs litre water per day for their 2nd unit. I would like to inform you that the above firm have water agreement of 5.5 lakhs litre per day with BIADA for their 1st unit, out of which approx 2.0 – 2.5 lakhs litre water per day is being taken by Dalmia cement to meet the requirement of their 1st unit. M/S Dalmia cement (Bharat) Ltd already have approx 3.0 lakhs litre water allocated as surplus (extra). M/S Dalmia cement (Bharat) Ltd can meet the another 1.50 Lakhs litre water per day for their 2nd unit from the existing water agreement. This is for your information and necessary action.

Thanking You

[Signature]
13/4/22
Sub-Divisional Officer
DWS Sub-Division,
Bokaro

Bokaro/Date 13/4/22

Memo No. 36

Copy to: M/S Dalmia cement (Bharat) Ltd. for your information and further necessary action.

[Signature]
13/4/22
Sub-Divisional Officer
DWS Sub-Division,
Bokaro

Annexure-IV

Environment base line data & Modeling report for the month of March 2022 done by Star Analytical Services, empaneled lab of AMPL Environ PVT Ltd. Hyderabad



Ampl Environ Pvt Ltd
"One Stop Solution Environmental Hub"



Date: April 25th, 2022

**The Plant Head
Dalmia Cement Bharat Limited
Plot No.: IV/A-7(P)4,
Bokaro Industrial Area, Balidih,
Bokaro Steel City,
Jharkhand — 827014.**

Sub: Submission of baseline data & modelling study for the month of march 2022 for your kind record.

Respected Sir,

Please find attached herewith the baseline data & Modelling study for the month of march 2022 by our empanelled Laboratory Star Analytical Services for your kind reference and record.

The modelling study has taken VRM stacks emission details into consideration with 30mg/Nm³ norms as estimate for particulate emission. GLC was calculated using ISCST3 model for dispersion study. The results indicate low or insignificant impact on surrounding environment while superimposing the GLC over the base line Ambient Air Quality prevailing in the region. This indicate sufficient assimilative capacity exist in atmosphere for establishment of stand alone grinding unit in the Industrial area. Hence it could be concluded the there will be low or insignificant impacts due to our project in the surrounding area.

Regards,

For AMPL ENVIRON PRIVATE LIMITED



AUTHORISED SIGNATORY



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TEST REPORT

Report No: SAS/AAQ/12/1210

Client Name & Address:

M/S Dalmia Cement (Bharat) Limited Plot No. IV/A-7(P)4, village Gorabali,
Notified Bokaro Industrial Area under JIADA, Balidih Phase-4, Bokaro-827014, Jharkhand.

Test Report

Ambient Air Quality
Sampling Period: 1st March 2022 to 31st March 2022
Sampling Location: Project Site
Date of Report: 24.04.2022

Parameters	PM ₁₀	PM _{2.5}	SO ₂	NO _x
CPCB Norms and unit	100 (µg/m ³)	60 (µg/m ³)	80 (µg/m ³)	80 (µg/m ³)
Sampling Date				
01/03/2022 to 02/03/2022	51.27	18.43	12.37	13.93
04/03/2022 to 05/03/2022	55.91	20.31	13.26	14.88
07/03/2022 to 08/03/2022	72.22	27.56	15.52	17.63
10/03/2022 to 11/03/2022	60.75	21.72	21.05	23.71
14/03/2022 to 15/03/2022	59.83	31.68	18.23	20.59
17/03/2022 to 18/03/2022	61.88	23.62	14.29	16.25
21/03/2022 to 22/03/2022	46.86	16.25	10.66	12.07
24/03/2022 to 25/03/2022	62.78	22.81	15.12	17.03
Minimum Value	46.86	16.25	10.66	12.07
Maximum Value	72.22	31.68	21.05	23.71
Average	58.93	22.79	15.06	17.01
98% Average Value	70.89	31.10	20.65	23.37

END OF REPORT

Sekhar.P
Checked by
Sekhar.P
Sr. Chemist

Authorized Signatory
T. Krishna Chaitanya
Manager, Laboratory



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TEST REPORT

Report No: SAS/AAO/12/1211

Client Name & Address:

M/S Dalmia Cement (Bharat) Limited Plot No. IV/A-7(P)4, village Gorabali,
Notified Bokaro Industrial Area under JIADA, Balidih Phase-4, Bokaro-827014, Jharkhand.

Test Report

Ambient Air Quality
Sampling Period: 1st March 2022 to 31st March 2022)
Sampling Location: Gorabali
Date of Report: 24.04.2022

Parameters	PM ₁₀	PM _{2.5}	SO ₂	NO _x
CPCB Norms and unit	100 (µg/m ³)	60 (µg/m ³)	80 (µg/m ³)	80 (µg/m ³)
Sampling Date				
01/03/2022 to 02/03/2022	50.07	21.38	10.69	11.39
04/03/2022 to 05/03/2022	53.82	22.83	11.23	12.43
07/03/2022 to 08/03/2022	63.27	26.71	13.53	14.59
10/03/2022 to 11/03/2022	58.30	24.56	12.49	13.29
14/03/2022 to 15/03/2022	59.86	31.19	15.71	16.87
17/03/2022 to 18/03/2022	68.38	36.88	18.23	19.58
21/03/2022 to 22/03/2022	43.38	18.13	10.22	9.74
24/03/2022 to 25/03/2022	61.20	26.04	13.48	14.03
Minimum Value	43.38	18.13	10.22	10.74
Maximum Value	68.38	36.88	18.23	19.58
Average	57.28	25.96	13.19	14.11
98% Average Value	67.66	36.08	17.87	19.20

END OF REPORT

Sekhar
Checked by
Sekhar.P
Sr. Chemist

Authorized Signatory
T. Krishna Chaitanya
Manager Laboratory



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TEST REPORT

Report No: SAS/AAO/12/1212

Client Name & Address:

M/S Dalmia Cement (Bharat) Limited Plot No. IV/A-7(P)4, village Gorabali,
Notified Bokaro Industrial Area under JIADA, Balidih Phase-4, Bokaro-827014, Jharkhand.

Test Report

Ambient Air Quality
Sampling Period: 1st March 2022 to 31st March 2022
Sampling Location: Tanr Balidih
Date of Report: 24.04.2022

Parameters	PM ₁₀	PM _{2.5}	SO ₂	NO _x
CPCB Norms and unit	100 (µg/m ³)	60 (µg/m ³)	80 (µg/m ³)	80 (µg/m ³)
Sampling Date				
01/03/2022 to 02/03/2022	53.29	20.53	10.67	11.46
04/03/2022 to 05/03/2022	57.32	22.00	11.59	12.39
07/03/2022 to 08/03/2022	67.41	25.92	13.68	14.83
10/03/2022 to 11/03/2022	62.02	23.91	12.40	13.19
14/03/2022 to 15/03/2022	62.60	30.23	15.72	16.90
17/03/2022 to 18/03/2022	72.82	34.93	18.16	19.58
21/03/2022 to 22/03/2022	46.28	17.84	09.32	09.95
24/03/2022 to 25/03/2022	65.10	25.03	13.02	14.00
Minimum Value	46.28	17.84	09.32	09.95
Maximum Value	72.82	34.93	18.16	19.58
Average	60.85	25.04	13.07	14.03
98% Average Value	72.06	34.27	17.81	19.20

END OF REPORT

Sekhar
Checked by
Sekhar.P
Sr. Chemist

Authorized Signatory
T. Krishna Chaitanya
Manager Laboratory



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TEST REPORT



TC-8620

Report No: SAS/AAO/12/1213

Client Name & Address:

M/S Dalmia Cement (Bharat) Limited Plot No. IV/A-7(P)4, village Gorabali,
Notified Bokaro Industrial Area under JIADA, Balidih Phase-4, Bokaro-827014, Jharkhand.

Test Report

Ambient Air Quality

Sampling Period: 1st March 2022 to 31th March 2022)

Sampling Location: Thakurtand

Date of Report: 24.04.2022

Parameters	PM ₁₀	PM _{2.5}	SO ₂	NO _x
CPCB Norms and unit	100 (µg/m ³)	60 (µg/m ³)	80 (µg/m ³)	80 (µg/m ³)
Sampling Date				
01/03/2022 to 02/03/2022	50.83	22.15	10.63	12.27
04/03/2022 to 05/03/2022	54.79	23.73	11.52	13.27
07/03/2022 to 08/03/2022	69.58	27.99	13.47	15.59
10/03/2022 to 11/03/2022	59.06	25.61	18.11	20.88
14/03/2022 to 15/03/2022	61.85	37.64	15.72	18.07
17/03/2022 to 18/03/2022	64.25	32.54	12.35	14.36
21/03/2022 to 22/03/2022	44.07	19.16	09.28	10.64
24/03/2022 to 25/03/2022	62.99	27.47	13.27	15.21
Minimum Value	44.07	19.16	9.28	10.64
Maximum Value	69.58	37.64	18.11	20.88
Average	58.42	27.03	13.04	15.03
98% Average Value	68.83	36.92	17.77	20.48

END OF REPORT

Sekhar
Checked by
Sekhar.P
Sr. Chemist

Authorized Signatory
T. Krishna Chaitanya
Manager-Laboratory





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TEST REPORT

Report No: SAS/AAO/12/1214

Client Name & Address:

M/S Dalmia Cement (Bharat) Limited Plot No. IV/A-7(P)4, village Gorabali,
Notified Bokaro Industrial Area under JIADA, Balidih Phase-4, Bokaro-827014, Jharkhand.

Test Report

Ambient Air Quality

Sampling Period: 1st March 2022 to 31st March 2022)

Sampling Location: Jaina More

Date of Report: 24.04.2022

Parameters	PM ₁₀	PM _{2.5}	SO ₂	NO _x
CPCB Norms and unit	100 (µg/m ³)	60 (µg/m ³)	80 (µg/m ³)	80 (µg/m ³)
Sampling Date				
01/03/2022 to 02/03/2022	56.59	25.49	14.82	18.66
04/03/2022 to 05/03/2022	60.87	27.58	15.78	20.49
07/03/2022 to 08/03/2022	71.47	32.16	18.66	23.67
10/03/2022 to 11/03/2022	65.88	29.69	17.20	21.96
14/03/2022 to 15/03/2022	66.16	37.55	21.73	27.72
17/03/2022 to 18/03/2022	76.25	43.39	25.16	32.08
21/03/2022 to 22/03/2022	48.96	22.05	12.78	16.32
24/03/2022 to 25/03/2022	69.18	31.16	18.06	23.06
Minimum Value	48.96	22.05	12.78	16.32
Maximum Value	76.25	43.39	25.16	32.08
Average	64.42	31.13	18.02	22.99
98% Average Value	75.58	42.57	24.67	31.46

END OF REPORT

Sekhar
Checked by
Sekhar.P
Sr. Chemist

Authorized Signatory
T. Krishna Chaitanya
Manager Laboratory



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TEST REPORT

Report No: SAS/AAQ/12/1215

Client Name & Address:

M/S Dalmia Cement (Bharat) Limited Plot No. IV/A-7(P)4, village Gorabali,
Notified Bokaro Industrial Area under JIADA, Balidih Phase-4, Bokaro-827014, Jharkhand.

Test Report

Ambient Air Quality

Sampling Period: 1st March 2022 to 31st March 2022

Sampling Location: Panchora

Date of Report: 24.04.2022

Parameters	PM ₁₀	PM _{2.5}	SO ₂	NO _x
CPCB Norms and unit	100 (µg/m ³)	60 (µg/m ³)	80 (µg/m ³)	80 (µg/m ³)
Sampling Date				
01/03/2022 to 02/03/2022	49.20	20.58	9.16	11.57
04/03/2022 to 05/03/2022	52.99	22.17	9.70	12.35
07/03/2022 to 08/03/2022	62.27	25.94	11.48	14.62
10/03/2022 to 11/03/2022	57.38	23.96	10.50	13.37
14/03/2022 to 15/03/2022	42.57	30.19	13.24	16.85
17/03/2022 to 18/03/2022	60.64	17.62	15.32	19.53
21/03/2022 to 22/03/2022	57.31	25.26	07.79	9.92
24/03/2022 to 25/03/2022	66.69	34.87	11.10	14.23
Minimum Value	42.57	17.62	07.79	09.92
Maximum Value	66.69	34.87	15.32	19.53
Average	56.13	25.07	11.03	14.05
98% Average Value	66.07	34.21	15.02	19.15

END OF REPORT

Sekhar
Checked by
Sekhar.P
Sr. Chemist

Authorized Signatory
T. Krishna Chaitanya
Manager-Laboratory



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TEST REPORT

Report No: SAS/AAO/12/1216

Client Name & Address:

M/S Dalmia Cement (Bharat) Limited Plot No. IV/A-7(P)4, village Gorabali,
Notified Bokaro Industrial Area under JIADA, Balidih Phase-4, Bokaro-827014, Jharkhand.

Test Report

Ambient Air Quality

Sampling Period: 1st March 2022 to 31st March 2022

Sampling Location: Khutri

Date of Report: 24.04.2022

Parameters	PM ₁₀	PM _{2.5}	SO ₂	NO _x
CPCB Norms and unit	100 (µg/m ³)	60 (µg/m ³)	80 (µg/m ³)	80 (µg/m ³)
Sampling Date				
01/03/2022 to 02/03/2022	46.85	18.79	09.02	10.66
04/03/2022 to 05/03/2022	50.46	20.44	9.72	11.58
07/03/2022 to 08/03/2022	59.33	23.87	11.49	13.51
10/03/2022 to 11/03/2022	54.68	22.04	10.68	12.45
14/03/2022 to 15/03/2022	54.23	27.51	13.14	15.50
17/03/2022 to 18/03/2022	63.70	32.74	15.39	18.15
21/03/2022 to 22/03/2022	40.59	16.37	07.82	09.24
24/03/2022 to 25/03/2022	57.75	23.28	11.23	13.37
Minimum Value	40.49	16.37	07.82	09.24
Maximum Value	63.70	32.74	15.39	18.15
Average	53.44	23.13	11.06	13.37
98% Average Value	63.08	32.00	15.07	17.79

END OF REPORT

Sekhar
Checked by
Sekhar.P
Sr. Chemist

Authorized Signatory
T. Krishna Chaitanya
Manager-Laboratory



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TEST REPORT



TC-8620

Report No: SAS/AAO/12/1217

Client Name & Address:

M/S Dalmia Cement (Bharat) Limited Plot No. IV/A-7(P)4, village Gorabali,
Notified Bokaro Industrial Area under JIADA, Balidih Phase-4, Bokaro-827014, Jharkhand.

Test Report

Ambient Air Quality

Sampling Period: 1st March 2022 to 31st March 2022)

Sampling Location: Bansimili

Date of Report: 24.04.2022

Parameters	PM ₁₀	PM _{2.5}	SO ₂	NO _x
CPCB Norms and unit	100 (µg/m ³)	60 (µg/m ³)	80 (µg/m ³)	80 (µg/m ³)
Sampling Date				
01/03/2022 to 02/03/2022	47.61	18.89	10.67	12.33
04/03/2022 to 05/03/2022	51.27	20.34	11.48	13.24
07/03/2022 to 08/03/2022	64.83	23.88	13.54	15.56
10/03/2022 to 11/03/2022	55.49	22.14	18.12	20.80
14/03/2022 to 15/03/2022	58.18	32.73	15.59	17.87
17/03/2022 to 18/03/2022	60.13	27.48	12.55	14.38
21/03/2022 to 22/03/2022	41.27	16.37	09.25	10.66
24/03/2022 to 25/03/2022	58.73	23.30	13.26	15.17
Minimum Value	41.27	16.37	09.25	10.66
Maximum Value	64.83	32.73	18.12	20.80
Average	54.68	23.14	13.05	15.00
98% Average Value	64.17	31.99	17.76	20.38

END OF REPORT

Sekhar
Checked by
Sekhar.P
Sr. Chemist

Authorized Signatory
T. Krishna Chaitanya
Manager, Laboratory



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TEST REPORT



TC-8620

Report No: SAS/NOISE/12/1219

Client Name & Address:

M/S Dalmia Cement (Bharat) Limited Plot No. IV/A-7(P)4, village Gorabali,
Notified Bokaro Industrial Area under JIADA, Balidih Phase-4, Bokaro-827014, Jharkhand.

Test Report

Ambient Noise Level

Sampling Period: 1st March 2022 to 31st March 2022

Date of Report: 24.04.2022

CPCB Limits in dB(A)			
Area Code	Category of Area Zone	Day Time (6 AM to 10 PM)	Night Time (10PM to 6 PM)
A	Industrial Area	75	70
B	Commercial Area	65	55
C	Residential Area	55	45
D	Silence Zone	50	40

Equivalent Continuous Sound Level (Leq) in dB													
Time Weighted Average 'A' of the level of Sound in decibels on scale A													
Sound Level-Leq dB(A)													
Sl. No.	Sampling Points	Code	Area Code	Day Time (6 AM to 10 PM)					Night Time (10 PM to 6 AM)			Min	Max
				(06AM - 10AM)	(10AM - 02PM)	(02PM - 06PM)	(06PM - 10PM)	Avg	(10PM - 02AM)	(02AM - 06AM)	Avg		
1	Project Area	NQ-1	A	60.5	68.7	65.3	55.9	62.6	45.6	39.4	42.5	68.7	39.4
2	Gorabali	NQ-2	C	58.3	62.8	60.6	53.5	58.8	48.2	40.2	44.2	62.8	40.2
3	Tanr Balidih	NQ-3	C	59.7	64.9	61.2	55.8	60.4	50.2	44.6	47.4	64.9	44.6
4	Thakurtanr	NQ-4	C	51.4	58.6	55.3	47.1	53.1	47.2	40.6	43.9	58.6	40.6
5	Jaina more	NQ-5	C	62.9	69.1	66.2	59.8	64.5	54.8	48.6	51.7	69.1	48.6
6	Panchora	NQ-6	C	54.9	59.3	56.2	52.8	55.8	51.8	46.8	49.3	59.3	46.8
7	Khutri	NQ-7	C	60.4	65.3	62.7	56.8	61.3	48.1	42.3	45.2	65.3	42.3
8	Bansimili	NQ-8	C	56.4	61.7	59.2	51.5	57.2	52.3	49.3	50.8	61.7	49.3

END OF REPORT

Checked by
Sekar.P
Sr. Chemist

Authorized Signatory
T. Krishna Chaitanya
Manager Laboratory

TEST REPORT

Report No: SAS/SW/12/1218

Client Name & Address:

M/S Dalmia Cement (Bharat) Limited Plot No. IV/A-7(P)4, village Gorabali,
Notified Bokaro Industrial Area under JIADA, Balidih Phase-4, Bokaro-827014, Jharkhand.

Test Report

Surface Water Quality

Sampling Period: 1st March 2022 to 31st March 2022

Date of Report: 24.04.2022

Sampling Location: SW1- Project Area, SW2- Gorabali, SW3- Taur Balidih, SW4- Thakurtanr, SW5- Jaina More, SW6- Panchora, SW7- Khutri, SW8- Bansimili

Sl. No.	Tested Parameters	Unit	Method No.	Surface Water Quality Standards (IS 2296:1992)	Results							
					SW1	SW2	SW3	SW4	SW5	SW6	SW7	SW8
1	pH value	---	IS 3025 (Part-11)	6.5-8.5	7.23	7.47	7.31	7.14	7.39	7.46	7.53	7.19
2	Electrical Conductivity at 25°C	µS/cm	IS 3025 (Part-14)	---	252	256	260	268	292	294	242	248
3	Colour	Hazen	IS 3025 (Part-04)	300	colourless	colourless	colourless	colourless	colourless	colourless	colourless	colourless
4	Turbidity	NTU	IS 3025 (Part-10)	---	4.3	4.0	4.6	2.7	4.9	3.9	3.4	4.1
5	Total Dissolved	mg/l	IS 3025	---	162	172	159	174	180	182	156	160

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Cell : +91 7095734733, +91 8555839439, +91 7893349325, E-mail : info@staranalyticalservices.co.in

TEST REPORT

	Solids		(Part-16)									
6	Chloride (as Cl)	mg/l	IS 3025 (Part-32)	---	32.0	33.0	24.0	36.0	36.0	42.0	38.0	32.0
07	Total Alkalinity (as CaCO ₃)	mg/l	IS 3025 (Part-23)	--	120	132	112	124	120	134	128	118
8	Sulphate (as SO ₄)	mg/l	IS 3025 (Part-24)	---	15.0	16.3	23.0	14.0	16.0	18.0	27.0	25.0
9	Nitrate (as NO ₃)	mg/l	IS 3025 (Part-34)	---	2.0	2.7	5.2	3.2	3.9	2.7	4.9	5.8
10	Dissolved Oxygen	mg/l	IS 3025 (Part-38)	5.0	6.5	6.3	8.2	5.7	6.3	8.5	6.9	7.1
11	Oil & Grease	mg/l	IS 3025 (Part-39)	---	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0

END OF REPORT

Checked by
Sekar.P
Sr. Chemist

Authorized Signatory
T. Krishna Chaitanya
Manager Laboratory

DALMIA CEMENT BHARAT LIMITED

2.0 MTPA Stand Alone Grinding Unit

Modeling Study during Operational Phase

The operational impacts in this study have been evaluated for the project:

Sources of Emission

Stack is attached to VRMs comprises of production of 2.0 MTPA PSC Cement Major pollutant, emitted will be particulate matter. Other emissions will be negligible and insignificant.

The Stack & Emission Characteristics are presented in **Table – 1**

TABLE-1
STACK & EMISSION CHARACTERISTICS
(Based on design data)

Description	Stack attached with VRMs
No. of Stack	1 No. Circular shape Stack
Stack height (m)	51.6
Internal dia. at Stack Top (m)	3.6
Exit velocity of flue gas (m/s)	16.28
Temp. of flue gas degree (°C)	98
Flue gas flow rate (Nm ³ /Hr)	4,88,990
PM emission rate (mg/Nm ³)	30
PM emission rate (gm/sec)	3.93

Air Quality Dispersion Modelling

Selection of Model

The plant operation will emit gaseous pollutant through stack, which have the potential to deteriorate the air quality of the area. In order to evaluate the impact on ambient air quality during operation of the proposed project, the ground level concentrations (GLCs) as a result of the plant emissions have been evaluated through mathematical modelling using computer aided techniques.

Upon discharge to atmosphere, the emissions from sources are subjected to transport and diffusion processes which together are termed as dispersion. The processes which govern the atmospheric dispersion of pollutants are plume rise, transport by wind, and diffusion by

turbulence and a number of physico-chemical processes such as gravitational settling, deposition, chemical reactions, transformation, decomposition and wash out.

The computation has been made applying **ISCST3 of USEPA**, which is most widely used and also recommended by **CPCB (PROBES/70/1997-98)**. The model is based on some assumptions such as steady state conditions, continuous homogeneous flow and a Gaussian distribution of the plume in both horizontal and vertical planes.

Data used for Modelling

The stack and emission data, as presented in Table-1 have been used as input to the model. The prediction of GLCs and corresponding impacts has been made for the emission figures mentioned therein.

The hourly meteorological data like ambient temperature, wind speed and wind direction used for air quality modelling have been taken from data from secondary sources.

The Mixing Height data were taken from one of the published documents i.e., "**Spatial Distribution of Hourly Mixing Depth over Indian Region**" of **Dr. R. N. Gupta**, applicable for this region. The mixing height data, considered for modelling are given in **Table-2**.

Table- 2: Mixing Height Data (Considered for Dispersion Modelling)

Hour of the day	Mixing Height (m)
1	0
2	0
3	0
4	50
5	50
6	50
7	100
8	200
9	400
10	700
11	800
12	1000
13	1000

Hour of the day	Mixing Height (m)
14	1000
15	1000
16	1000
17	800
18	600
19	600
20	400
21	200
22	100
23	50
24	0

Predicted GLC on Modelling Results

Modelling exercise has been performed for VRMs stack, which is mentioned above.

The predicted maximum GLCs of PM for the stack are presented in **Table- 3** The isopleths of PM have been depicted in **Figure- 1** and predominant wind direction was observed at West, NW direction.

Table-3 Predicted Maximum GLC of PM

Pollutant	Max. GLC($\mu\text{g}/\text{m}^3$)	Direction	Distance (km)
PM	3.16	E,SE	0.45

Hence maximum incremental value of PM will be $3.16 \mu\text{g}/\text{m}^3$ which will occur at the distance of 0.45 Km in E,SE.

As per the base line data collected during March.2022 of Dalmia Cement (Bharat) Limited, the background concentration of PM_{10} was observed $55.70 (\mu\text{g}/\text{m}^3)$ (average value) at downward side at Gorbali Village.

From the observations of modelling results, it is observed that the cumulative concentrations of Particulate Matter i.e. $58.86 \mu\text{g}/\text{m}^3$ in the area will remain in the permissible limit. The permissible limit as per CPCB norms for PM_{10} is $100 \mu\text{g}/\text{m}^3$. This indicates sufficient assimilative capacity available in atmosphere for establishment of unit.

The result shows that the effect of dust in nearby habitat will be insignificant.

It may also be noted that the modelling results depict the worst case scenario as washout due to rain has not been considered and deposition on other forms of structures as buildings, trees etc. have not been taken into account. Thus, in actuality, these pollutant concentrations are expected to be even lower than the predicted values.

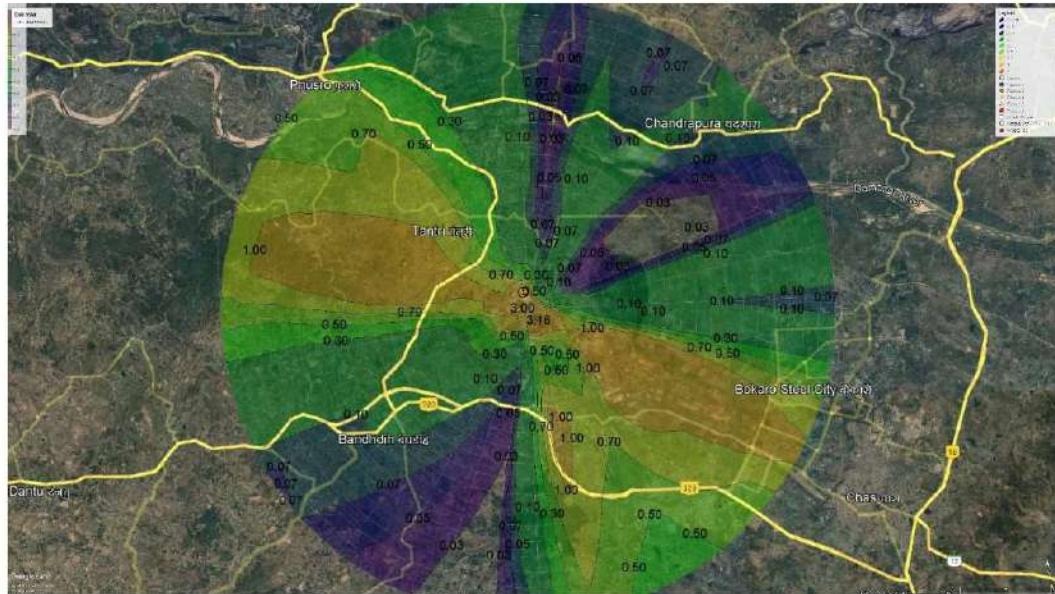


Figure-1 : Isopleths of PM

Wind rose

As per the data of IMD's Dhanbad observatory (~36 km), the wind direction is predominantly from W, NW & N during winter and W & NW during most of the other seasons. The Annual Wind rose diagrams based on Annual percentage frequency of wind blowing from for day and night based at IMD's Dhanbad observatory is shown in **Figure 2** below:

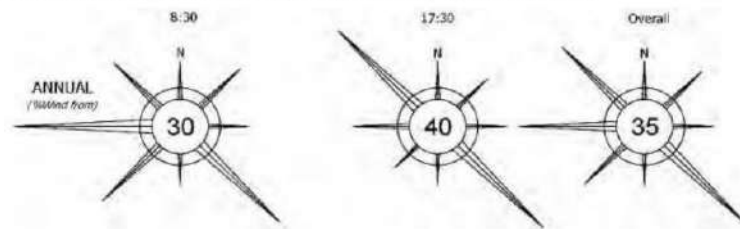


Figure.2: Annual Wind Rose at IMD's Dhanbad Observatory

The Micro Meteorology at site

The Micro meteorological data recording instrument was installed on top of a building near to the project site to record Hourly average, maximum, and minimum values of wind speed, wind direction, relative humidity and temperature for during March,2022, whereas the wind roses drawn are presented in **Figure3**.

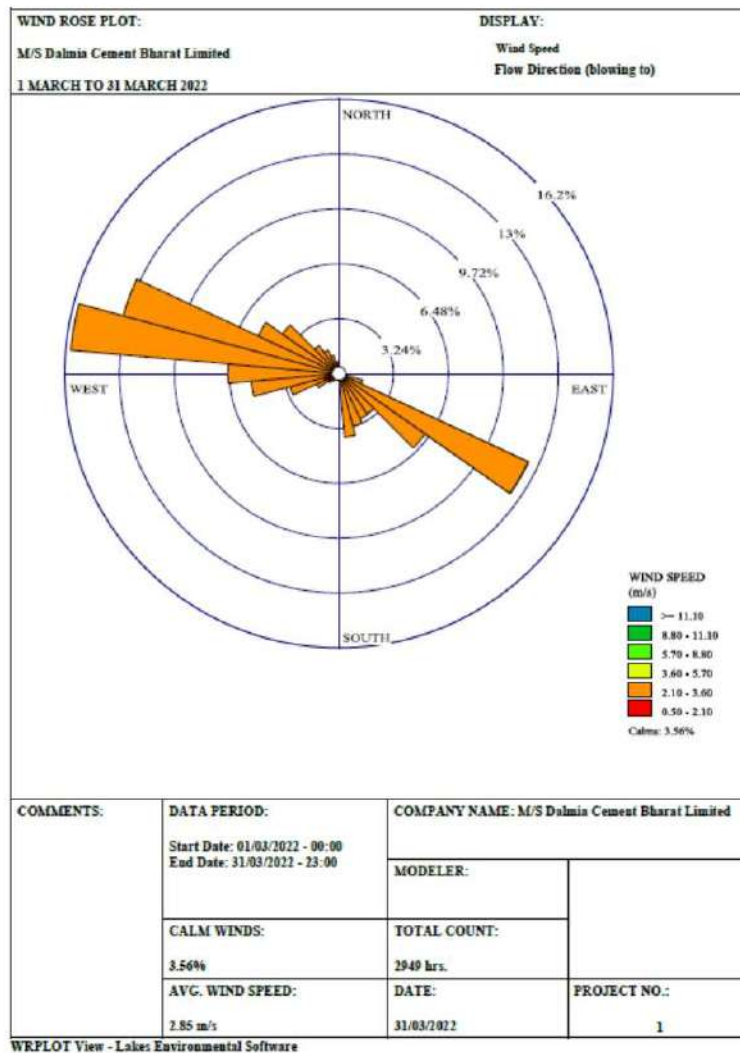
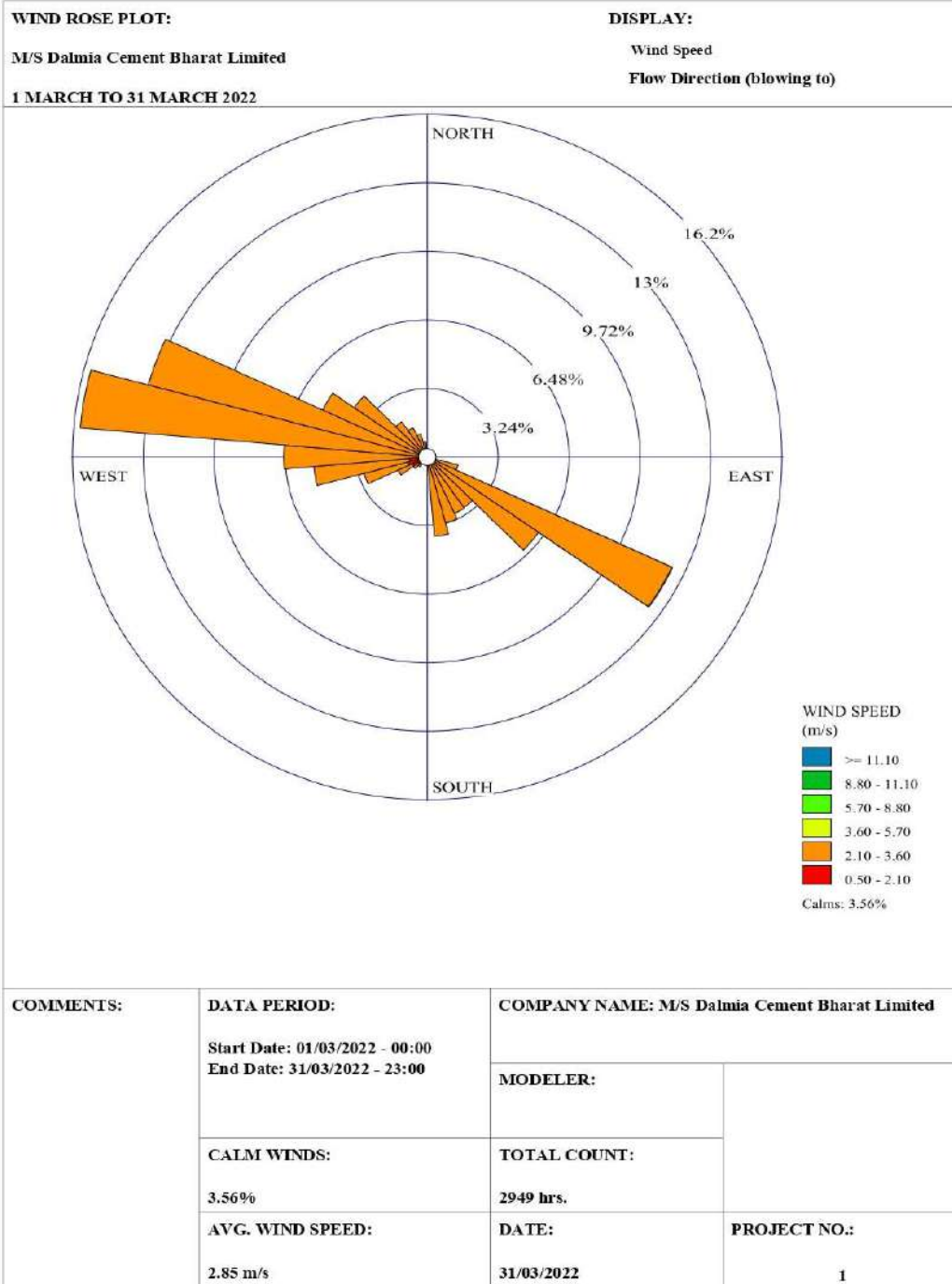



Figure 3: Wind Rose Diagram



WRPLOT View - Lakes Environmental Software

Annexure-V

No forest land in plant area, Clearance letter from DFO Territorial, Bokaro vide
Letter no. 3546 dated 21.12.2021

 Government of Jharkhand Department of Forest, Environment and Climate Change		
Permission Letter : LETTER20211220		
Acknowledgment No: SWSFST1111202131031		Issue Date: 21-12-2021
Name Of Applicant : Dalmia Cement Bharat Limited		
Email ID :	sinha.rajeevkumar@dalmiacement.com.	Contact no.: 9771478206
Report of Distance from Forest, Forest Reserve and Sanctuary		
SNo	Checkpoint	Divisional Forest Officer
1	Whether Distance of Project location from Reserved Forest/Protected Forest is 250 m?	Yes
2	Whether Project location come under No Mining Zone?	No
3	Does there any National park located within 10 km from project location?	No
4	Does there any Wildlife sanctuary located within 10 km distance from project location?	No
5	Does there any ESZ available within 10 km distance from project location?	No
6	Whether Proposed project comes under prohibited category of ESZ (Yes or No)?	No
Name : _____		
Note :-The order dated 12.12.1996 in case no. 202/95 passed by Hon'ble Apex Court will be applicable in respect of GMJJ Land.		Designation : _____ Signature : _____ Divisional Forest Officer Bokaro Forest Division Bokaro
*The certificate to be issued by the Divisional Forest Officer of the respective Divisions and upload		



Department of Forest, Environment and Climate Change

Report of Distance from Notified Forest, National Park, Sanctuary & Eco-Sensitive Zone

Name Of Applicant
Dalmia Cement Bharat Limited
Institution Type
Non Government

Email ID sinha.rajeevkumar@dalmiacement.com Contact no.: 9771478206

Location of Proposed Land

District Bokaro

Battery Point Gorabali

Thana No.: 14

Thana Name: Jaridih

Khata No.: 134,76,177,46,45,171,47,145,78,65,135,72

Khesra Name: 892 (F),781 (P),777 (F),784 (P),779 (P),778 (P),782 (P),783 (P),887 (P),890 (F),888 (P),880 (P),852 (P),891 (P),960 (P),850 (P),893 (P),851 (P),858 (P),871 (F),957 (P),870 (P),958 (F),884 (F),885 (F),886 (F),776 (P),883 (F),882 (F),875 (F),862 (F),876 (F),881 (F),879 (F),878 (F),874 (F),863 (F),866 (F),873 (F),864 (F),868 (P),861 (F),867 (P),865 (F)

#	Checkpoint	Range Forest Officer	Divisional Forest Officer
1	Whether Distance of Project location from Reserved Forest/Protected Forest is 250 m? *	Yes	Yes
2	Whether Project location come under No Mining Zone? *	No	No
3	Does there any National park located within 10 km from project location? *	No	No
4	Does there any Wildlife sanctuary located within 10 km distance from project location? *	No	No
5	Does there any ESZ available within 10 km distance from project location? *	No	No
6	Whether Proposed project comes under prohibited category of ESZ (Yes or No)? *	No	No

Note :-The order dated 12.12.1996 in case no. 202/95 passed by Hon'ble Apex Court will be applicable in respect of GMJJ Land.

Division DFO Bokaro

Letter No. 3546

Date of issue 21/12/2021

Signature

Name

Divisional Forest Officer
Bokaro Forest Division

Divisional Forest Officer

11/28/21, 5:06 PM

Inspection Report of Distance from Forest, Forest Reserve and Sanctuary



Department of Forest, Environment and Climate Change

Report of Distance from Notified Forest, National Park, Sanctuary & Eco-Sensitive Zone

Name Of Applicant: Dalmia Cement Bharat Limited
Institution Type: Non Government

Email ID: sinha.rajeevkumar@dalmiacement.com

Contact no.: 9771478206

Location of Proposed Land

District: Bokaro

Battery Point center

Thana No.: 14

Thana Name: Jaridih

Khatra No.: 134,76,177,46,45,171,47,145,78,65,135,72

Khesra Name:

892 (F),781 (P),777 (F),784 (P),779 (P),778 (P),782 (P),783 (P),887 (P),890 (F),888 (P),880 (P),852 (P),891 (F),960(P),850(P),893 (P),851 (P),858 (P),871 (F),957 (P),870 (P),958 (F),884 (F),885 (F),886 (F),776 (P),883 (F),882 (F),875 (F),862 (F),876 (F),881 (F),879 (F),878 (F),874 (F),863 (F),866 (F),873 (P),864 (F),868 (P),861 (F),867 (P),865 (F)

#	Checkpoint	Range Forest Officer	Divisional Forest Officer
1	Whether Distance of Project location from Reserved Forest/Protected Forest is 250 m? *	No	No
2	Whether Project location come under No Mining Zone? *	No	No
3	Does there any National park located within 10 km from project location? *	No	No
4	Does there any Wildlife sanctuary located within 10 km distance from project location? *	No	No
5	Does there any ESZ available within 10 km distance from project location? *	No	No
6	Whether Proposed project comes under prohibited category of ESZ (Yes or No)? *	Yes	Yes

क्र०स०-1 एवं 2- भूमि की प्रकृति एवं वनभूमि से दूरी संबंधित वांछित सूचना वन प्रमण्डल पदाधिकारी, बोकारो वन प्रमण्डल के कार्यालय से प्राप्त करें।

क्र०स०-3 से 6- के संदर्भ में प्रतिवेदित करना है कि प्रस्तावित परियोजना हेतु आवेदित स्थल Battery Point (23.6961985N 86.0644832E) से निकटतम संरक्षित क्षेत्र (Protected Area) तोपचांची वन्यप्राणी आश्रयणी अवस्थित है, तथा वन, पर्यावरण एवं जलवायु परिवर्तन मंत्रालय भारत सरकार द्वारा पारसनाथ एवं तोपचांची वन्यप्राणी आश्रयणी के अधिसूचित ESZ के सीमा से बाहर अवस्थित है।

Note- उपरोक्त सूचना आवेदक द्वारा समर्पित अभिलेख एवं GPS Point भारत सरकार द्वारा प्रकाशित ESZ के अधिसूचना तथा आवेदित स्थल से निकटतम संरक्षित क्षेत्र (Protected Area) के आधार पर दी गयी है।

Division: DFO Wildlife Hazaribagh

Letter No.: 2058

Date of issue: 28.11.2021

Signature: [Signature]

Name: Divisional Forest Officer, Wildlife Division, Hazaribagh

Divisional Forest Officer

[Signature]

[Signature]
वन प्रमण्डल पदाधिकारी
वन प्रमण्डल, बोकारो

Annexure-VII

Consent to Establish obtained from JSPCB, Ranchi vide letter no JSPCB/ HO/RNC/CTE-12699959/2022/195, Dated 28.04.2022



JHARKHAND STATE POLLUTION CONTROL BOARD

TOWNSHIP ADMINISTRATION BUILDING, HEC COMPLEX, DHURWA, RANCHI 834004

Telephone: 0651-2400850 (Fax)/ 2400851/2400852/2401847/2400979/2400139

Ref No.: JSPCB/HO/RNC/CTE-12699959/2022/195

Dated : 2022-04-28

Consent to Establish (CTE) under section 25 /26 of the Water (Prevention & Control of Pollution) Act, 1974 and under section 21 of the Air (Prevention & Control of Pollution) Act, 1981

1. Reference: Application (s) No.- 12699959 / dated : 22/04/2022 of Bokaro Cement Manufacturing Works (A Unit of DCBL), Priya Ranjan for consent under section 25 /26 of the Water (Prevention & Control of Pollution) Act, 1974 and under section 21 of the Air (Prevention & Control of Pollution) Act, 1981
2. **Documents Relied Upon:**
 - (a) The content of Inspection Report (I/R) checklist 18.03.2022 issued vide Ref. No. 331 dated 02.04.2022 of R O-Cum-Laboratory, J.S.P.C. Board, Dhanbad.
 - (b) The content of copy of Environmental Clearance granted vide letter No. EC/SEIAA/2021-22/2534/2022/27, Ranchi, dated 16.04.2022 for proposed Bokaro Cement Manufacturing Works, Green field Standalone Grinding Unit with Cement Production Capacity of 2.0 Million TPA and D.G. Set of 1000 KVA (2 x 500 KVA), A unit of Dalmia Cement (Bharat) Limited.
 - (c) The content of Copy of Copy of land lease deed valid for 30 yrs. from the date of allotment i.e 28.10.2021. The land has been allotted to the proposed unit at Plot No. IV/A-7(P)4 (Area - 15.75 Acre/ 686070 Sq.ft.), Bokaro Industrial Area, Balidih, Bokaro Steel City, Bokaro, Jharkhand by JIADA and Khata No. and Plot Nos. as per EC.
 - (d) The content of copy of Certificate of D.F.O, Wild Life, Hazaribagh issued vide letter no.: 2058 dated 28.11.2021 which states that the distance of proposed project (Battery Point) does not lie within 10 Kms of National Park, Wildlife Sanctuary, Bio-Diversity & ESZ.
3. The consent is granted under section 25 / 26 of the Water (Prevention & Control of Pollution) Act, 1974 and under section 21 of the Air (Prevention & Control of Pollution) Act, 1981 to establish the project in Mauza- Gorabali, P S -Bokaro, District-BOKARO as follows:

Project	Site-Area		Investment (Rs)/ Year	Product & Capacity	Period of CTE
	Plot Nos.	Area			
Before Expansion	At- Bokaro Industrial Area, Bokaro, Plot No. IV/A-7(P)4 & as per EC.	15.75 Acre/ 686070 Sq.ft.	576.04 Crores	Cement - 2.0 Million TPA and D.G. Set of 1000 KVA (2 x 500 KVA) as per EC	One year from the date of issue

(A) Specific Conditions:

1. That, the occupier shall make Work area and transport roads and approach road off the main road concrete/ black top before commissioning of the project.
2. That, the occupier shall install fixed type water sprinklers to cover all dusty places in the premises to impart water spraying intermittently
3. That, the occupier shall make all roads pucca and shall maintain a good house keeping by regular cleaning and wetting of the roads and dust prone areas.
4. That, the occupier shall store all raw materials and products under shed and shall as far as practicable, do their processing and transfer under foolproof cover(s).
5. That, the occupier shall install online certified PM10 analyzer with onsite display and connectivity to JSPCB server.
6. That, the occupier shall collect and treat the effluent in foolproof latest system and shall recycle treated effluent to the system for reuse and shall ensure no discharge of effluent out side the premises.;
7. That, the occupier shall install air pollution control devices such as Dust Catcher, Cyclone Separator, Bag filters, Venturi Scrubber, ESP etc. in suitable combination to control the emission.
8. That, the occupier shall use fly ash and or fly ash bricks in construction of the project.
9. That, the occupier shall implement all pollution control measures as recommended in EIA/EMP.
10. That, the occupier shall comply the recommendations of CREP;
11. That, the occupier shall comply all the conditions of Environmental Clearance issued by SEIAA , Govt. of Jharkhand, Ranchi.
12. That, the occupier shall use all solid wastes as resource as a raw material or a product.
13. That, as a stake holder in Dhanbad Action Plan the occupier shall ensure the compliance of action to be taken to reduce the pollutants as suggested in Dhanbad Action Plan by them.
14. That, the occupier shall install only green D G Set(s) with acoustic enclosure and shall keep the height(s) of exhaust pipe(s) as per Central Pollution Control Board norm
15. That, the occupier shall submit photographs to establish the compliance of the aforesaid conditions at

the time of submission of CTO application.

(B) General Conditions :

(1) That, the occupier shall construct pucca (i) minimum ten feet high boundary wall and (ii) approach road and internal roads and shall keep the premises neat and clean and tidy.

(2) That, the occupier shall install comprehensive enclosure (s) to cover the places of unloading of raw materials, the equipments of their processing & transferring, the places of loading of products, by products and wastes for prevention of fugitive emission and shall install such automatic inbuilt system(s) that in house dust/ gases collect(s) and undergo (es) cleaning and clean air goes out.

(3) That, the occupier shall install such automatic inbuilt system(s) that process flue gas(es) / process gas(es) and undergo(es) cleaning and clean air go(es) out through the chimney(s), having height(s) as per Central Pollution Control Board norm.

(4) That, the occupier shall have D G Set(s) of the standard as laid in the Environment (protection) Rules, 1986 and shall install it (them) within acoustic enclosure (s) and shall keep the height(s) of exhaust pipe(s) as per Central Pollution Control Board norm .

(5) That, the occupier shall impart treatment as per Central Pollution Control Board text to wastewater and shall keep process effluent in close-circuit and effluent from other sources in conformity with the standard (s).

(6) That, the occupier shall install Central Ground Water Board/ State Ground Water Directorate approved system of rain water harvesting-cum-ground water recharge.

(7) That, the occupier shall create new water body (ies) / remove deposit(s) of existing water body(ies) and nearby stream(s) and pond(s) and shall maintain the wholesomeness of water.

(8) That, the occupier shall grow greenery in the periphery and other available spaces and shall continue enhancing its plant density and biodiversity.

(9) That, this CTE is valid subjected to the validity of mining Lease / Mining Plan / Ecofriendly / Environmental Clearance, if applicable. In case of no renewal of Mining Lease/Mining Plan, this consent shall be treated as revoked automatically.

(10) That, this CTE is issued from the environmental angle only and does not absolve the occupier from other statutory obligations prescribed under any other law or any other instrument in force. The sole and complete responsibility to comply with these conditions laid down in all other laws for the time being in force, rests with the industry/ unit/ occupier.

(11) That, this CTE shall not in any way, adversely affect or jeopardize the legal proceeding , if any, instituted in the past or that could be , instituted against you by the State Board for violation of the provisions of the Act or the Rules made there under.

(12) That, the occupier shall comply with all applicable provisions of the Water (Prevention & Control of Pollution) Act, 1974; the Water (Prevention & Control of Pollution) Cess Act, 1977; the Air (Prevention & Control of Pollution) Act, 1981; and the Environment (Protection) Act, 1986 and Rules there under.

4. That, this CTE shall not absolve the occupier from making compliance of other statutory prescribed under any law or direction of courts or any other instrument for the time being in force.

5. That, this CTE is being issued on the basis of information/ documents/ certificate submitted by the unit. This CTE will be revoked if any of the information/ documents/ certificates/ undertaking given by the occupier is found false/fictitious/forged in future.
6. This order shall be valid subject to compliance of all other legal requirements applicable to the unit.
7. The State Board reserves the right to revoke, withdraw or make any reasonable variation / change / alteration in condition of this consent.

This is issued with the approval of the competent authority

(Yatindra Kumar Das)
Member Secretary

Memo No. : JSPCB/HO/RNC/CTE-
12699959/2022/195

Dated : 2022-04-28

Copy to : Sri. Priya Ranjan, DED and Authorized Signatory of M/s Bokaro Cement Manufacturing Works (A unit of Dalmia Cement (Bharat) Limited, At- Plot No. IV/A-7(P)4, Bokaro Industrial Area, Balidih, Bokaro Steel City, Dist- Bokaro / Director of Industry, Government of Jharkhand, Ranchi/ Deputy Commissioner, Bokaro/ Director of Mines, Government of Jharkhand, Ranchi/ Chief Inspector of Factories, Ranchi/ D.F.O., Bokaro/D.M.O., Bokaro / R.O., Dhanbad for information & ensuring compliance of the above.

(Yatindra Kumar Das)
Member Secretary

Annexure-VIII**LIST OF POLLUTION CONTROL EQUIPMENTS (BAG FILTERS)**

BOKARO CEMENT MANUFACTURING WORKS, (A unit of DALMIA CEMENT BHARAT LIMITED)							
LIST OF POLLUTION CONTROL EQUIPMENTS							
S. No.	Location	Description	Application	Design dust Emission (mg/Nm3)	Volume of bag filter (m3/h)	Fan Volume	Outlet dust Emission (mg/Nm3)
	Bag House						
1.	Cement Mill Venting	Bag House 563BF4	Cement	10	1030000	1150000	≤ 30
	LIST of Nuisance Dust Collectors						
1	TT-1 492 BF1	Belt conveyor from WT to clinker silo new & existing (492 BC1) at TT-1/Clinker	Clinker	10	10000	11500	≤ 30
2	TT-2 492 BF2	Belt conveyor 492BC1 discharging to 492BC2 & BC4 at TT-2/Clinker	Clinker	10	10000	11500	≤ 30
3	TT-3 492BF4	Bag filter 492 BF3 for conveyor 492BC3 discharging to 492 BC4	Clinker	10	10000	11500	≤ 30
4	492BF5	492 BC3 discharge and clinker silo top/ Clinker	Clinker	10	15000	17250	≤ 30
5	TT-4 512BF1	Belt conveyor 512BC1 discharge to 512BC3 at TT-4/ Clinker	Clinker	10	12500	14375	≤ 30
6	TT-5	Belt conveyor 512BC2 discharge to 512BC3 at TT-5/ Clinker	Clinker	10	10000	11500	≤ 30
7	TT-6 512 BF3	Belt conveyor 512BC3 discharge to 512BC4 at TT-6/ Clinker	Clinker	10	7500	8625	≤ 30
8	512 BF4	Belt conveyor 512BC4 discharge to 512BE1 at TT-3 bottom/ Clinker	Clinker	10	5000	5750	≤ 30
9	CMH Top 533 BF1	Cement mill hopper top/ Clinker & Gypsum	Clinker & Gypsum	10	10000	11500	≤ 30
10	533 BF3	CMH extraction	Clinker & Gypsum	10	15000	17250	≤ 30
11	533 BF2	Mill feed conveyor	Clinker & Gypsum	10	10000	11500	≤ 30

**BOKARO CEMENT MANUFACTURING WORKS,
(A unit of DALMIA CEMENT BHARAT LIMITED)**

LIST OF POLLUTION CONTROL EQUIPMENTS

S. No.	Location	Description	Application	Design dust Emission (mg/Nm3)	Volume of bag filter (m3/h)	Fan Volume	Outlet dust Emission (mg/Nm3)
12	563 BF1	Cement Mill BE feed/ Reject Material	Cement	10	12500	14375	≤ 30
13	563 BF2	Cement Mill BE Top/ Reject Material	Cement	10	10000	11500	≤ 30
14	563 BF3	Cement Mill reject BC/ Reject Material	Cement	10	10000	11500	≤ 30
15	594 BF1	Baghouse Extraction/ Cement	Cement	10	5000	5750	≤ 30
16	594 BF2	Baghouse Extraction/ Cement	Cement	10	5000	5750	≤ 30
17	BRU K12BF1	K12 BF1 for BRU 1 & 2 (With pneumatic dampers)	Coal	10	30000	34500	≤ 30
18	TT9 K12 BF2	K12 BF2 for TT9 (Coal Handling)	Coal	10	12500	14375	≤ 30
19	FBC Hopper K12 BF3	K12 BF3 for FBC (Coal Handling)	Coal	10	7500	8625	≤ 30
20	492 BF3	492 BF3 (492BC2 to 492BC3) TT14	Clinker	10	10000	11500	≤ 30
21	232BF2	Air slide venting	Fly ash	10	4000	4600	≤ 30
22	614BF1	Cement silo cone	Cement	10	4000	4600	≤ 30
23	613BF1,	Cement silo cone	Cement	10	4000	4600	≤ 30
24	595BF1	Cement silo top	Cement	10	7500	8625	≤ 30
25	594BF3	Cement silo top	Cement	10	7500	8625	≤ 30
26	613BF2	Airslide venting	Cement	10	5000	5750	≤ 30
27	613BF3	Airslide venting	Cement	10	6000	6900	≤ 30
28	646BF1	Packing Plant	Cement	10	15000	17250	≤ 30
29	647BF1	Packing Plant	Cement	10	15000	17250	≤ 30

**BOKARO CEMENT MANUFACTURING WORKS,
(A unit of DALMIA CEMENT BHARAT LIMITED)**

LIST OF POLLUTION CONTROL EQUIPMENTS

S. No.	Location	Description	Application	Design dust Emission (mg/Nm3)	Volume of bag filter (m3/h)	Fan Volume	Outlet dust Emission (mg/Nm3)
30	646BF2	Packing Plant	Cement	10	35000	40250	≤ 30
31	647BF2	Packing Plant	Cement	10	35000	40250	≤ 30

Public notice published in "Pioneer" Newspaper & "Aaj" newspaper dated :25.04.2022

<p>inst Eintracht Europa League</p>	<p>Lukaku, prompting Craig Dawson to concede a penalty</p>	<p>from two goals down to draw 2- 2 at Brighton.</p>	<p>my energy is for Ajax," he added.</p>
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Djoker loses in Serbia final

AP ■ BELGRADE

World number one Novak Djokovic was denied his first title of the year on Sunday, falling in three sets to Russia's Andrey Rublev in the final of the Serbia Open.

Second seed Rublev won through 6-2, 6-7 (4/7), 6-0 against the top seed who had been looking to regain winning form before his French Open title defence.

The Belgrade event was only Djokovic's third of 2022 after he was deported from Melbourne — and denied the chance to defend his Australian Open title — after entering the country unvaccinated.

However, the 20-time Grand Slam winner was let down by his lack of physical form.

The 34-year-old, who lost in the quarter-finals in Dubai and suffered a shock second-round defeat in Monte Carlo, battled past Laslo Djere, Miomir Kecmanovic and Karen Khachanov in three sets before the court time caught up with the top seed against Rublev.

DALMIA CEMENT (BHARAT) LIMITED
BOKARO INDUSTRIAL AREA, BOKARO-JHARKHAND
PUBLIC NOTICE

This is to inform that State level Environment Impact Assessment Authority (SEIAA), Jharkhand has accorded Environment Clearance vide EC Identification No.:EC22B009JH152802; File No:EC/SEIAA/2021-22/2534/2022; letter no EC/SEIAA/2021-22/ 2534/2022/27, dated 16.04.2022 & EC issuance date 21.04.2022, to Green Field Standalone Grinding Unit "Bokaro Cement Manufacturing Works" -a unit of Dalmia Cement (Bharat) Ltd., with Cement Production Capacity of 2.0 MTPA and DG Set of 1000 KVA(2x 500 KVA) at Plot No: IV/-7(P)4 , Vill : Gorabali, Bokaro Industrial Area under JIADA, Balidih Phase 4 Bokaro , Jharkhand. Copies of Environmental clearance is available with the State Level Environment Impact Assessment Authority office and also at website of the Ministry of Environment, Forest and Climate Change (MoEF&CC) at <https://parivesh.nic.in/> .

Authorized Signatory

डालमिया सीमेंट (भारत) लिमिटेड

बोकारो औद्योगिक क्षेत्र
बोकारो-झारखंड
सार्वजनिक सूचना

यह सूचित किया जाता है कि राज्यस्तरीय पर्यावरणीय प्रभाव आंकलन प्राधिकरण (SEIAA), झारखण्ड द्वारा पर्यावरण स्वीकृति पहचान संख्या EC22B009JH152802, फाइल संख्या EC/SEIAA/2021-22/2534/2022, पत्र संख्या EC/SEIAA/2021-22/2534/2022/27, रौंची दिनांक: 16.04.2022 एवं पर्यावरण स्वीकृति दिनांक: 21.04.2022 के द्वारा ग्रीन फील्ड स्टैंडअलोन ग्राइडिंग यूनिट 'बोकारो सीमेंट मैन्युफैक्चरिंग वर्क्स' डालमिया सीमेंट (भारत) लिमिटेड की इकाई, सीमेंट उत्पादन क्षमता 2.00 एमटीपीए और डी.जी. सैट क्षमता 1000 केवीए (2x500केवीए) प्लाट नं. IV/A-7(P)4, ग्राम-गोडाबली, JIADA के तहत बोकारो औद्योगिक क्षेत्र, बालिडीह फेज 4 बोकारो, झारखंड को पर्यावरण स्वीकृति प्रदान की गई है।

पर्यावरण स्वीकृति की प्रतियां, राज्यस्तरीय पर्यावरणीय प्रभाव आंकलन प्राधिकरण कार्यालय पर उपलब्ध कराई गई है और पर्यावरण, वन और जलवायु परिवर्तन मंत्रालय (MoEF&CC) की वेबसाइट <https://parivesh.nic.in/> पर भी उपलब्ध है।

अधिकृत हस्ताक्षरकर्ता

Annexure-X

Receipts of copy of Environment Clearance submitted to the Regional Office of MoEFCC, MS-SEIAA, MS- JSPCB, local Panchayat and other Govt. bodies, district head quarter:

Dalmia
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To
The Regional Office
Ministry of Environment, Forest and Climate Change,
Integrated Regional Office, Bungalow No. A-2,
Shyamali Colony, Ranchi – 834002

Date: 28.04.2022

Sub.: Proposed Standalone Grinding Unit "Bokaro Cement Manufacturing Works" with Cement Production Capacity of 2.0 Million TPA – A Unit of Dalmia Cement (Bharat) Limited at Plot No: IV/-7(P)4, Village Gorabali, Bokaro Industrial Area under JIADA, Balidih Phase 4 Bokaro, Jharkhand.

Ref.: 1. Environmental Clearance granted by State Level Environment Impact Assessment Authority (SEIAA), Jharkhand vide EC Identification No.: EC22B009JH152802; File No: EC/SEIAA/2021-22/2534/2022; letter no EC/SEIAA/2021-22/ 2534/2022/27, dated 16.04.2022 & EC issuance date 21.04.2022.

2. Consent to Establish granted by Jharkhand State Pollution Control Board vide Ref. No.: JSPCB/HO/RNC/CTE-12699959/2022/195 dated 28.04.2022

Dear Sir,

With reference to above mentioned subject and reference, we would like to submit that Environmental Clearance has been granted to our proposed Standalone Grinding Unit, as cited above, by State Level Environment Impact Assessment Authority (SEIAA), Jharkhand as mentioned above under Ref. No 1. Consent to Establish for the proposed project has also been granted by Jharkhand State Pollution Control Board as mentioned above under Ref. No 2.

In compliance of condition no 1 of XI. MISCELLANEOUS stipulated in granted EC, we have advertised a public notice informing about the grant of EC to proposed plant in two newspapers named "The Pioneer and Aaj" on 25th April 2022 in English as well as in vernacular language i.e. Hindi. In compliance of condition no 7. of XI. MISCELLANEOUS stipulated in granted EC, we would like to inform your good office that Land development work has been started at site on 28.04.2022.

In compliance of condition no 2. of XI. MISCELLANEOUS stipulated in granted EC, A Copy of Environmental Clearance, Consent to Establish and Original copy of both Newspapers are being submitted herewith for your information and record.

Thanking You

Yours Faithfully

For M/s. Dalmia Cement (Bharat) Ltd.
(Unit: Bokaro Cement Manufacturing Works)

[Signature]

Authorized Signatory

Encl: As above



Dalmia Cement (Bharat) Limited

Unit : Bokaro Cement Manufacturing Works

Plot No. IV/A-7(P)4, Bokaro Industrial Area, Balidih, Bokaro Steel City, Bokaro - 827 014, Jharkhand, India
T +91 6542 253 278 / +91 6542 253 047 Toll Free 1800 2020 W www.dalmiacement.com CIN : U65191TN1996PLC035963
Registered Office : Dalmiapuram, District Tiruchirapalli, Tamil Nadu - 621 651, India.
A Dalmia Bharat Group Company, www.dalmiabharat.com

O/c

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To
Member Secretary
State Level Environment Impact Assessment Authority,
Nursery Complex, Near Dhurwa Bus Stand, Dhurwa
Ranchi – 834004

Date: 28.04.2022

Sub.: Proposed Standalone Grinding Unit "Bokaro Cement Manufacturing Works" with Cement Production Capacity of 2.0 Million TPA – A Unit of Dalmia Cement (Bharat) Limited at Plot No: IV/-7(P)4, Village Gorabali, Bokaro Industrial Area under JIADA, Balidih Phase 4 Bokaro, Jharkhand.

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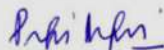
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Thanking You

Yours Faithfully

For M/s. Dalmia Cement (Bharat) Ltd.
(Unit: Bokaro Cement Manufacturing Works)



Authorized Signatory

Encl: As above



Dalmia Cement (Bharat) Limited

Unit : Bokaro Cement Manufacturing Works

Plot No. IV/A-7(P)4, Bokaro Industrial Area, Balidih, Bokaro Steel City, Bokaro - 827 014, Jharkhand, India
T +91 6542 253 278 / +91 6542 253 047 Toll Free 1800 2020 W www.dalmiacement.com CIN : U65191TN1996PLC035963

Registered Office : Dalmiapuram, District Tiruchirapalli, Tamil Nadu - 621 651, India.

A Dalmia Bharat Group Company, www.dalmiabharat.com

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To
Member Secretary
Jharkhand State Pollution Control Board
Township Administration Building (Ground Floor)
HEC Complex, Dhurwa
Ranchi – 834004

Date: 28.04.2022

Sub.: Proposed Standalone Grinding Unit "Bokaro Cement Manufacturing Works" with Cement Production Capacity of 2.0 Million TPA – A Unit of Dalmia Cement (Bharat) Limited at Plot No: IV/-7(P)4, Village Gorabali, Bokaro Industrial Area under JIADA, Balidih Phase 4 Bokaro, Jharkhand.

Ref.: 1. Environmental Clearance granted by State Level Environment Impact Assessment Authority (SEIAA), Jharkhand vide EC Identification No.: EC22B009JH152802; File No: EC/SEIAA/2021-22/2534/2022; letter no EC/SEIAA/2021-22/ 2534/2022/27, dated 16.04.2022 & EC issuance date 21.04.2022.

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Thanking You

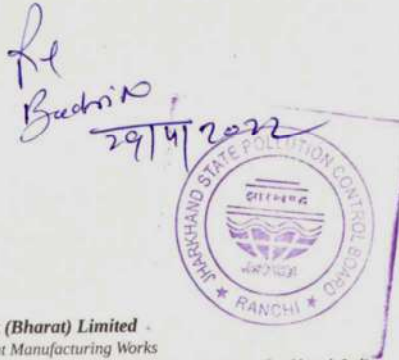
Yours Faithfully

For M/s. Dalmia Cement (Bharat) Ltd.
(Unit: Bokaro Cement Manufacturing Works)

[Signature]

Authorized Signatory

Encl: As above



Dalmia Cement (Bharat) Limited -

Unit : Bokaro Cement Manufacturing Works

Plot No. IV/A-7(P)4, Bokaro Industrial Area, Balidih, Bokaro Steel City, Bokaro - 827 014, Jharkhand, India

T +91 6542 253 278 / +91 6542 253 047 Toll Free 1800 2020 W www.dalmiacement.com CIN : U65191TN1996PLC035963

Registered Office : Dalmiapuram, District Tiruchirapalli, Tamil Nadu - 621 651, India.

A Dalmia Bharat Group Company, www.dalmiabharat.com

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The Regional Director
Jharkhand Industrial Area Development Authority (JIADA)
Bokaro Industrial Area
Bokaro Steel City
Bokaro - 827014

Date: - 27.04.2022

Sub: - Environment Clearance for the Project- Proposed Bokaro Manufacturing Works-Green Field Standalone Grinding Unit with Cement Production Capacity of 2.0 MTPA & DG set of 1000 KVA (2x500 KVA) of M/S Dalmia Cement (Bharat) Limited (DCBL), Village-Gorabali, Notified Bokaro Industrial Area under JIADA, Balidih Phase – IV, Bokaro, Jharkhand.

Dear Sir,

At the Outset we extend our sincere thanks for the cooperation extended to us by the JIADA for seamless operation of our existing cement plant at Bokaro. We had applied for grant of Environment clearance for our aforesaid new project having production capacity 2.0 MTPA which finally EC has been granted by state level Environment Assessment Authority (SEIAA) vide EC Identification No.: EC22B009JH152802; File No: EC/SEIAA/2021-22/2534/2022; letter no EC/SEIAA/2021-22/ 2534/2022/27, dated 16.04.2022 & EC issuance date 21.04.2022 (Copy of EC enclosed)

This is submitted for your kind information & record please.

Thanks & Regards

Yours sincerely

For Dalmia Cement Bharat Limited
[Unit: Bokaro Cement Manufacturing Works]

Authorized Signatory

Encl: EC Copy

Dalmia Cement (Bharat) Limited
Unit : Bokaro Cement Manufacturing Works
Plot No. IV/A-7(P)4, Bokaro Industrial Area, Balidih, Bokaro Steel City, Bokaro - 827 014, Jharkhand, India
T +91 6542 253 278 / +91 6542 253 047 Toll Free 1800 2020 W www.dalmiacement.com CIN : U65191TN1996PLC035963
Registered Office : Dalmiapuram, District Tiruchirapalli, Tamil Nadu - 621 651, India.
A Dalmia Bharat Group Company, www.dalmiabharat.com

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To,

Date: - 27.04.2022

Shri Ganesh Thakur Ji
Mukhiya
Village/Basti: Balidih
Gorabali (South) Gram Panchayat
Bokaro (Jharkhand)

Sub: - Environment Clearance for the Project- Proposed Bokaro Manufacturing Works-Green Field Standalone Grinding Unit with Cement Production Capacity of 2.0 MTPA & DG set of 1000 KVA (2x500 KVA) of M/S Dalmia Cement (Bharat) Limited (DCBL), Village-Gorabali, Notified Bokaro Industrial Area under JIADA, Balidih Phase – IV, Bokaro, Jharkhand.

Dear Sir,

At the Outset we extend our sincere thanks for the cooperation extended to us by the Gorabali(S) GP for seamless operation of our existing cement plant at Bokaro. We had applied for grant of Environment clearance for our aforesaid new project having production capacity 2.0 MTPA which finally EC has been granted by state level Environment Assessment Authority (SEIAA) vide EC Identification No.: EC22B009JH152802; File No: EC/SEIAA/2021-22/2534/2022; letter no EC/SEIAA/2021-22/ 2534/2022/27, dated 16.04.2022 & EC issuance date 21.04.2022 (Copy of EC enclosed)

This is submitted for your kind information & record please.

Thanks & Regards

Yours sincerely

For Dalmia Cement Bharat Limited
[Unit: Bokaro Cement Manufacturing Works]

[Signature]

Authorized Signatory

Encl: EC Copy

Dalmia Cement (Bharat) Limited
Unit : Bokaro Cement Manufacturing Works
Plot No. IV/A-7(P)4, Bokaro Industrial Area, Balidih, Bokaro Steel City, Bokaro - 827 014, Jharkhand, India
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Registered Office : Dalmiapuram, District Tiruchirappalli, Tamil Nadu - 621 651, India.
A Dalmia Bharat Group Company, www.dalmiabharat.com

[Signature]
अध्यक्ष
ग्राम पंचायत समिति
गोराबली (दक्षिण)
बोकारो (झारखण्ड)
27.04.2022

Dalmia
cement
FUTURE TODAY

RJ270157062IN IVR:8274270157062
RL BALIDIH SO (827014)
Counter No:2,28/04/2022,11:08
To:THE SECRETARY,RANCHI
PIN:834004, Dhurwa SO
From:DALMIA CEMENT,BALIDIH
Wt:95gms
Amt:42.00(Cash)
<Track on www.indiapost.gov.in>
(This is NOT A REGISTERED MAIL. It is a Safe)

To,

Date: - 27.04.2022

The Secretary
Industry Department
Govt. of Jharkhand
Ranchi (Jharkhand)

Sub: - Environment Clearance for the Project- Proposed Bokaro Manufacturing Works-Green Field Standalone Grinding Unit with Cement Production Capacity of 2.0 MTPA & DG set of 1000 KVA (2x500 KVA) of M/S Dalmia Cement (Bharat) Limited (DCBL), Village-Gorabali, Notified Bokaro Industrial Area under JIADA, Balidih Phase – IV, Bokaro, Jharkhand.

Dear Sir,

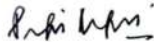
At the Outset we extend our sincere thanks for the cooperation extended to us by the Industry Department, Govt. of Jharkhand for seamless operation of our existing cement plant at Bokaro. We had applied for grant of Environment clearance for our aforesaid new project having production capacity 2.0 MTPA which finally EC has been granted by state level Environment Assessment Authority (SEIAA) vide EC Identification No.: EC22B009JH152802; File No: EC/SEIAA/2021-22/2534/2022; letter no EC/SEIAA/2021-22/ 2534/2022/27, dated 16.04.2022 & EC issuance date 21.04.2022 (Copy of EC enclosed)

This is submitted for your kind information & record please.

Thanks & Regards

Yours sincerely

For Dalmia Cement Bharat Limited
[Unit: Bokaro Cement Manufacturing Works]



Authorized Signatory

Encl: EC Copy

Dalmia Cement (Bharat) Limited
Unit : Bokaro Cement Manufacturing Works
Plot No. IV/A-7(P)4, Bokaro Industrial Area, Balidih, Bokaro Steel City, Bokaro - 827 014, Jharkhand, India
T +91 6542 253 278 / +91 6542 253 047 Toll Free 1800 2020 W www.dalmiacement.com CIN : U65191TN1996PLC035963
Registered Office : Dalmiapuram, District Tiruchirappalli, Tamil Nadu - 621 651, India.
A Dalmia Bharat Group Company, www.dalmiabharat.com

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RJ270157076IN IVR:8274270157076
RL BALIDIH SO <827014>
Counter No:28/04/2022,11:08
To:THE DEPUTY CO, B S CITY
PIN:827001, Bokaro Steel City HD
From:DALMIA CEMENT, BALIDIH
Wt:95gms
Amt:42.00(Cash)
<Track on www.indiapost.gov.in>
/M-1 10000/111010/ /M-1 10000/111010/ /M-1 10000/111010/

To,

Date: - 27.04.2022

The Deputy Commissioner
Bokaro Steel City
Bokaro (Jharkhand)

Sub: - Environment Clearance for the Project- Proposed Bokaro Manufacturing Works-Green Field Standalone Grinding Unit with Cement Production Capacity of 2.0 MTPA & DG set of 1000 KVA (2x500 KVA) of M/S Dalmia Cement (Bharat) Limited (DCBL), Village-Gorabali, Notified Bokaro Industrial Area under JIADA, Balidih Phase – IV, Bokaro, Jharkhand.

Dear Sir,

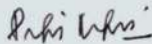
At the Outset we extend our sincere thanks for the cooperation extended to us by the district administration for seamless operation of our existing cement plant at Bokaro. We had applied for grant of Environment clearance for our aforesaid new project having production capacity 2.0 MTPA which finally EC has been granted by state level Environment Assessment Authority (SEIAA) vide EC Identification No.: EC22B009JH152802; File No: EC/SEIAA/2021-22/2534/2022; letter no EC/SEIAA/2021-22/ 2534/2022/27, dated 16.04.2022 & EC issuance date 21.04.2022 (Copy of EC enclosed)

This is submitted for your kind information & record please.

Thanks & Regards

Yours sincerely

For Dalmia Cement Bharat Limited
[Unit: Bokaro Cement Manufacturing Works]



Authorized Signatory

Encl: EC Copy

Dalmia Cement (Bharat) Limited
Unit : Bokaro Cement Manufacturing Works
Plot No. IV/A-7(P)4, Bokaro Industrial Area, Balidih, Bokaro Steel City, Bokaro - 827 014, Jharkhand, India
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A Dalmia Bharat Group Company, www.dalmiabharat.com

Dalmia
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RJ2701570801N IVR:8274270157080
RL BALIDIH SO <827014>
Counter No:2,28/04/2022,11:08
To:THE MEMBER SECRETARY,J S P C B
PIN:834004, Dhurwa SO
From:DALMIA CEMENT,BALIDIH
Wt:95gms
Amt:42.00(Cash)
<Track on www.indiapost.gov.in>



To,

Date: - 27.04.2022

The Member Secretary
Jharkhand State Pollution Control Board (JSPCB)
Ranchi (Jharkhand)

Sub: - Environment Clearance for the Project- Proposed Bokaro Manufacturing Works-Green Field Standalone Grinding Unit with Cement Production Capacity of 2.0 MTPA & DG set of 1000 KVA (2x500 KVA) of M/S Dalmia Cement (Bharat) Limited (DCBL), Village-Gorabali, Notified Bokaro Industrial Area under JIADA, Balidih Phase – IV, Bokaro, Jharkhand.

Dear Sir,

At the Outset we extend our sincere thanks for the cooperation extended to us by the JSPCB for seamless operation of our existing cement plant at Bokaro. We had applied for grant of Environment clearance for our aforesaid new project having production capacity 2.0 MTPA which finally EC has been granted by state level Environment Assessment Authority (SEIAA) vide EC Identification No.: EC22B009JH152802; File No: EC/SEIAA/2021-22/2534/2022; letter no EC/SEIAA/2021-22/ 2534/2022/27, dated 16.04.2022 & EC issuance date 21.04.2022 (Copy of EC enclosed)

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Thanks & Regards

Yours sincerely

For Dalmia Cement Bharat Limited
[Unit: Bokaro Cement Manufacturing Works]

Authorized Signatory

Encl: EC Copy

Dalmia Cement (Bharat) Limited
Unit : Bokaro Cement Manufacturing Works
Plot No. IV/A-7(P)4, Bokaro Industrial Area, Balidih, Bokaro Steel City, Bokaro - 827 014, Jharkhand, India
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A Dalmia Bharat Group Company, www.dalmiabharat.com

Annexure-XI

DALMIA CEMENT (BHARAT) LIMITED, BOKARO

BOKARO CEMENT MANUFACTURING WORKS CONSTRUCTION WORK IS UNDER PROGRESS



Plant over view (Cement mill, Cement & Clinker Silo, Stacker & reclaimers)



Hot air duct erection work



Hopper building



Office area



Truck tippler



Packing plant area



CAAQM station received



Cement Packer



Cement mill structure



Bag House: Hopper Erection is in progress



Belt Conveyor Structure erection



Cement Silo: Hopper & Structure erection



Stacker Rail fixing in progress



Bag House: RCC completed & hopper erection in progress



MRSS ground floor RCC completed & Brick work in progress