Proposal No	SIA/JH/IND1/413722/2023
Compliance ID	116625541
Compliance Number(For Tracking)	EC/COMPLIANCE/116625541/2025
Reporting Year	2025
Reporting Period	01 Jun(01 Oct - 31 Mar)
Submission Date	09-05-2025
RO/SRO Name	Shri Senthil Kumar Sampath
RO/SRO Email	agmu156@ifs.nic.in
State	JHARKHAND
RO/SRO Office Address	Integrated Regional Offices, Ranchi

Note:- SMS and E-Mail has been sent to Shri Senthil Kumar Sampath, JHARKHAND with Notification to Project Proponent.



cement! sugar! refractories! power!

To Date: 30.04.2025

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

Subject: Half yearly Environment Clearance (EC) Compliance report of Bokaro Cement Manufacturing Works unit of Dalmia Cement (Bharat) Limited for the period of October 2024 to March 2025.

Ref: EC Letter no: EC/SEIAA/2022-23/2646/2023/366, Ranchi, Date: 08.02.2023, EC Identification no.EC23B000JH199098

Dear Sir

2

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 October '2024 to March '2025 for your kind perusal.

Thanking you.

Yours Sincerely,

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

Authorized Signatory

Copy

- The Director, Ministry of Environment, Forest and Climate Change, 2nd Floor, Headquarter-Jharkhand State Housing Board, Harmu Chowk, Ranchi, Jharkhand - 834002
- The Member Secretary, Central Pollution Control Board, Parivesh Bhavan, East Arjun Nagar, Deihi-110032
- The Member Secretary, Jharkhand State Pollution Control Board, Township Administration Building, HEC Complex, Dhurwa, Ranchi-834004
- 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 X:XVII

Bokaro Cement Monujacturing Works (A'unit of Dalmie Cement Bharat Limited) PJ4, Bokaro Industrial Area, Balidih, Bokaro Suel City, Bokaro - 827014, Iharkhand, India

Plot No. IV/A-7(P)4, Bokaro Industrial Area, Balidih, Bokaro Steel City, Bokaro - 827014, Tharkhand, India T +91 6542 253 278 Toll Free 1800 2020 W www.dalmiocement.com CIN: U65191TN1996PLC035963 Registered Office: Dalmiapuram, District Truchirapolil, Tomil Nadu - 621651, India. A Dalmila Bharat Group company, www.dalmiobharat.com

BOKARO CEMENT MANUFACTURING WORKS

(A Unit of M/s Dalmia Cement (Bharat) Limited

Environment Clearance Compliance Report For the period of October 2024 to March 2025

EC Letter no: EC/SEIAA/2022-23/2646/2023/366, Ranchi, Date: 08.02.2023, EC Identification no.EC23B000JH199098



BOKARO CEMENT MANUFACTURING WORKS

(Unit of Dalmia Cement (Bharat) Limited)
Plot No. IV/A-7(P)4, Bokaro Industrial Area, Balidih,
Bokaro Steel City, Jharkhand- 827014

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 FROM OCTOBER 2024 TO MARCH 2025

EC Letter no: EC/SEIAA/2022-23/2646/2023/366, Ranchi, Date: 08.02.2023, EC Identification no.EC23B000JH199098

. No.	EC Conditions	Compliance
Specifi	c Conditions	
í.	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 c. Complied with the decisions of SEIAA on the issue of Environmental Clearance till date.	a. 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 BalidihPhase-4, Bokaro-827014, Jharkhand and is in possession of DCBL. b. All existing concerned laws are being complied. c. CTE and CTO obtained from JSPCB Ranchi for the construction and operation of the plant.
I. State	utory Compliance	
1.	The project proponent shall obtain forest clearance under the provisions 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.	Not Applicable. This clause is not applicable to 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 during appraisal of plant and also is attached herewith as Annexure I&II.

. No.	EC Conditions	Compliance
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.	Complied with Our unit has obtained CTE from JSPCB, Ranchi vide letter no JSPCB/ HO/RNC/CTE- 15399804/2023/128, Dated 23.02.2023and CTO obtained from JSPCB Ranchi vide letter no. JSPCB/HO/RNC/CTO-17967569/2024 /283 dated 24.02.2024attached as Annexure-III&IV
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 obtained from JIADA and Drinking Water and Sanitation Sub-Division, Bokaro vide letter no 36 dated 13.04.2022. The same is attached herewith as an Annexure-V.
6	The project proponent shall obtain authorization under the Hazardous and other Waste Management Rules 2016 as amended from time to time.	Table 1
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 and Wildlife angle including clearance from standing committee of NBWL, as may be applicable to this project (in case any fauna	Not Applicable and EC has already been obtained

. No.	EC Conditions	Compliance
	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 decay, which till process on their respective merits, no rights will vest in accrue to them unless all clearance are obtained.	Not Applicable.
i. Air c	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 9th 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.	Complied. Continuous emission monitoring system at process stacks 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 9th May 2016 (Cement) and connected to SPCB and CPCB online servers. Stack emission monitoring report from October 2024 to March 2025 is attached as per Annexure: VII. CEMS is being 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	Complied With. Fugitive emission regularly monitored. Fugitive emission monitoring report from October 2024 to March 2025 attached as per Annexure: VIII
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) covering upwind and downwind directions. (case to case basis small plant: Manual: large plants: Continuous)	On line CAAQMS installed and regularly Ambient air quality monitored. CAAQMS data regularly transmitted to JSPCB and CPCB server. On line CAAQMS and Manual Ambient air quality monitoring report from October 2024 to March 2025 attached as per Annexure: IX
4	The project proponent shall submit monthly summary report of continuous stack emission and air quality monitoring and	Complied with. Stack emission and AAQM regularly monitored. Monitored reports are being

. No.	EC Conditions	Compliance
	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	regularly submitted to JSPCB, CPCB & MoEF &CC as a part of EC Compliance report. Report attached as per Annexure-VII&IX
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.	Complied with. Bag House at the VRM and 31 Bag filters installed at all the material transfer and handling point to keep the emission within the standard specified by MOEF&CC/CPCB. List of APC the same is attached as Annexure X
6	The project shall provide leakage detection and mechanized bag cleaning facilities for better maintenance of bags.	Complied with. Regular maintenance of bag filters, leakage checking, cleaning of bag filter is being 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	Complied with. Plant is only grinding unit, Clinkerisation is not involved. Applicable Pollution control measures as per CREP guideline of CPCB implemented. Attached Annexure XI
8	Sufficient number of mobile or stationary vacuum cleaners shall be provided to clean plant roads, shop floors, roofs, regularly.	Complied with. Stationary vacuum cleaners provided to clean plant roads, shop floors, roofs, regularly.
9	Ensure covered transportation and conveying of raw material to prevent spillage and dust generation; use closed bulkers for carrying fly ash.	
10	Provide wind shelter fence and chemical spraying on the raw material stock piles	Complied with All the raw material, fuel and products stored within the covered storage yard and silos.
11	Have separate truck parking area and monitor vehicular emissions at regular interval.	Complied with. PUC certified equipment as well as trucks are deployed. Separate truck parking facility provided. Regular checking of vehicles PUC certificates is being done to control of vehicular emission.

No.	EC Conditions	Compliance
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.	Being complied. All measures, detailed in PFR & EMP report, implemented to reduce impact of the transport. Covered conveyor belt are being used for transportation of raw material & product within plant. All raw materials and products transported in covered trucks, bulkers, and railways to reduce the fugitive dust emission. Regular water sprinkling is being 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.	Complied with. Ventilation system arrangement done at motor houses, and cement bagging plants.
II. Wa	ter 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).	Not applicable There is no requirement of water for manufacturing process. Water is being used 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.
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.	No Ground water withdrawal in our plant. There is no effluent generation from the plant. Domestic waste water treated in STP and treated water is being used within plant for greenbelt development and dust suppression. However, ground water quality and ground water depth level of surrounding village regularly monitored. same report attached as per Annexure-XII
3	The project proponent shall submit monthly summary report of continuous effluent monitoring and results of manual effluents	Not applicable. There will not be any effluent generation from the plant.

S. No.	EC Conditions	Compliance
	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.	•
4	Adhere to 'Zero Liquid Damage'	Being complied.
5	Sewage Treatment Plant shall be provided for treatment of domestic wastewater to meet the prescribed standards.	Complied with. 15 KLD STP constructed for the treatment of domestic wastewater. Treated water quality meet the prescribed standards. STP Treated water quality analysis report for the period of October 2024 to March 2025 attached as per Annexure: XIII
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.	Complied with. Garland drains and collection pits 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.
7	The project proponent shall practice rainwater harvesting to maximum possible extent.	Complied with Rain water harvesting system constructed in our plant as per technical approval RWH from GWD. Ranchi. RWH implementation report attached as per Annexure: XIV
8	Water meter shall be provided at the inlet to all unit processes to maximum possible extent.	Complied with. Water meter installed at the inlet of the unit. Photographs attached as per Annexure: XV
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.	Complied with. Optimum use of water is being practiced and All necessary efforts is being made to reduce water consumption in our plant. Domestic waste water is being treated in STP and treated water is being used for greenbelt & dust suppression. STP treated water analysis report attached as per Annexure: XV
IV. No	se monitoring and prevention	A.
1	Noise level survey shall be carried as per the prescribed guidelines and report in this regard shall be submitted to Regional Officer of the Ministry as a part of six- monthly compliance report.	Complied with. Noise level is being regularly monitored in different locations as per the prescribed guidelines and is being regularly submitted to Regional Officer of the Ministry along with Half Yearly Compliance Report.

. No.	EC Conditions	Compliance
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.	Complied with. Noise level monitoring report from October 2024 to March 2025 attached as per Annexure- XVI
V. Ene	rgy 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.	Complied with. Solar based LED lights installed at different location of the plant. Photographs attached as per Annexure: XVII
2	Provide the project proponent for LED lights in their offices and residential areas.	Complied with LED lights installed for lighting purpose
3	Maximize utilization of fly ash, slag and sweetener in cement blend as per BIS Standards.	Complied Portland Slag Cement (PSC) using waste products such as Slag (about 65 %) as per BIS norms.
VI. Wa	ste Management	And the section perpendicular
1	The waste oil, grease and other hazardous waste shall be disposed of as per the Hazardous & other waste (Management & Transboundary Movement) Rules 2016.	Being complied
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).	Being compliance Kitchen waste utilized by nearby villagers to fed to the animals.
VII. Gr	een 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.	Compliance under progress Greenbelt/plantation work is under progress and 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. Green belt development report attached as per Annexure: XVIII
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.	Complied with. GHG emission inventor report attached as per Annexure: XIX

No.	EC Conditions	Compliance
1	Emergency preparedness plan based on the Hazard identification and Risk Assessment (HIRA) and Disaster Management Plan shall be implemented	Complied with. On site emergency Preparedness plan, Hazard identification and Risk Assessment (HIRA) prepared and same is approved by Chief Factory Inspector of Jharkhand.
2	The PP shall provide Personal Protection Equipment (PPE) as per the norms of factory act.	Complied with. All Personal protective equipment's (PPE) Safety shoes, Nose mask, safety helmet, earplug, provided to all employees and contract workers for their safety. Safety training is being 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.	Complied With. 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 all workers. 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.	Being Complied Periodic medical health checkup of employees and workers is being done for every six months. Reports maintained as per Factory Act.
X. Cor	porate 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 1st May 2018, as applicable, regarding Corporate Environment Responsibility.	Being Complied. The company invested 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 is being 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. CER and CSR report for the period of October 2024 to

. No.	EC Conditions	Compliance
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 sixmonthly report.	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 established. The hierarchical system or administrative order of the Company is attached as an Annexure XXI.
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. Action plan for EMI 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 Expenditure on Environment protection up to October 2024 to March 2025 attached as per Annexure- XXII
5	Self-environmental audit shall be conducted annually. Every three years third party environmental audit shall be carried out.	Complied With. Environment audit report attached as per Annexure: XXIII
6	All the recommendations made in the Charter on Corporate Responsibility for Environment Protection (CREP) for the cement plants shall be implemented.	Complied with. Applicable Pollution contro measures as per CREP guideline of CPCE implemented.

s. No.	EC Conditions	Compliance
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 02.03.2023 in English as well as in vernacular language i.e. Hindi. Copy of Advertisements are attached herewith as an Annexure XXIV. The Newspapers with advertisement along with copy of EC have been submitted to the Regional Office of MoEF & CC, MS-SEIAA and MS- JSPCB. Copy of submission receipts are attached herewith as an Annexure-XXV.
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 MoEF&CC, MS-SEIAA, MS- JSPCB, local Panchayat and other Govt. bodies, district head quarter. Copy of submission receipts are attached herewith as an Annexure-XXV.
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.	Complied. half yearly EC Compliance report uploaded in company official website. screen short attached as per Annexure-XXVI
4	The project proponent shall monitor the criteria pollutants level namely; PM 10, SO2, NOx (ambient levels as well as stack emissions) or critical sectoral parameters, indicated for the projects and display the same at a convenient location for disclosure to the public and put on the website of the company.	Complied with. Emission monitoring data displayed at the factory main gate. Display Board photographs attached as per Annexure-XXVII
5	The project proponent shall submit six- monthly reports on the status of the compliance of the stipulated environmental conditions on the website of the ministry of Environment, Forest and Climate Change at environment clearance portal.	Being complied.
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.	Complied with. Environment Statement in Form V is regularly submitted to JSPCB, Dhanbad & Ranchi. Last Environment Statement was submitted vide our letter no. DCBL/ENV-ES/23-24/, Dated 24.09.2024

S. No.	EC Conditions	Compliance
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 start of Land development work: 29.04.2022 Date of Production: 25.03.2023
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.	Being complied
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)	[[일 마이크 살살이었다 ^ ^ [] [[의 마이크 라이크 [[의 마이크 [[의 라이크 [[의 다니다 [이 기계 시간 [이 기계
9	Concealing factual data or submission of false/fabricated data and failure to comply with any of the conditions mentioned above may result in withdrawal of this clearance and attract action under the provisions of Environment (Protection) Act, 1986.	Noted & agreed.
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	Noted & agreed

. No.	EC Conditions	Compliance
	Environment (Protection) Act, 1986.	
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 reserve 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
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 I6 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

Annexure-I

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

/	The first sector of the sector	W =
	Gövernment of Jharkhand Department of Forest, Environment and Climate Change	
Acknowledgment SWSFST11112021 Name Of Appl	31031	
Email ID :	sinha rajeevkumar@dalmiacement.com . Contact 9771478206	
R	eport of Distance from Forest, Forest Reserve and Sanctuary	
SNo	Checkpoint Forest Officer	
1	Whether Distance of Project location from Reserved Forest/Protected Forest is 250 m?	e tr
2	Whether Project location come under No No No No	1
3	Does there any National park located within 10 km from project location?	
4	Does there any Wildlife sanctuary located within 10 km distance from project No location?	
5	Does there any ESZ available within 10 km No distance from project location?	
6	Whether Proposed project comes under prohibited category of ESZ (Yes or No)?	
×	Name:	
Note :-The order of	dated 12.12.1996 in case no. 202/95 passed by Designation :	1
Hon'ble Apex Cou	art will be applicable in respect of GMJJ Land. Signature :	10
	Divisional gress Officer (1)	11
The certificate to b	e issued by the Divisional Forest Officer of the respective Divisions and upload	/
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Department of Forest, Environment and Climate Change Report of Distance from Notified Forest, National Park, Sanctuary & Eco-Sensitive Zone

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Name	Of Dalmia Cement Bharat Limited	****						
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	Lo	cation of Proposed Land				*	٠.	
Distr	ct Bokaro	Battery Gorabali	100	1811	no i			
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		(P),887 (P),890 (F), ,,Khesra (F),960(P),850(P),8		The state of the s		P).870		
Khata	No.: 134,76,177,46,45,171,47,145,78,65,135,	Name: (P),958 (F),884 (F),	A CONTRACTOR OF THE STATE OF TH				*	
85		(F),862 (F),876 (F),				(F),866		
		(F),873 (F),864 (F),				F		
#	Checkpoint			Forest icer	Divisional Office			
1	Whether Distance of Project location from Re	eserved Forest/Protected Fores			Yes		•	
2	Whether Project location come under No Min	ning Zone? •	No		No		76	
3	Does there any National park located within		No	- 6	No			
4 -	Does there any Wildlife sanctuary located with project location? •	thin 10 km distance from .	No		No	lw: =		
5	Does there any ESZ available within 10 km d	listance from project	No .		No			
	Whether Proposed project comes under prohi	bited category of ESZ (Yes or	31 6	0.0				
0	No)? •		No .		No			
	2012		Division	DFO Boks	iro			
	m 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	202/06 massed by	Letter No.				*	
2000	:-The order dated 12.12.1996 in case no	[12] [14] [14] [14] [14] [14] [15] [15] [15] [15] [15] [15] [15] [15	Date of iss	21/12	2021	-1	٠,	
Hon	ble Apex Court will be applicable in res	spect of GMJJ Land.	Signature_	n	XXX	111.	011	,
			Name	W Jones	Dost Officer	<u> </u>	VII	1
-	ne Hole are depresed by 1919		E	Mark A	est Division	ni	1'	
	A STATE OF THE STA		Divisional	Forzst Off	icer	600 n 10 n 10 n		

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 Non Government Type Contact 9771478206 Email ID sinha.rajeevkumar@dalmiacement.com Location of Proposed Land Battery center District Bokaro Point Thoma Thans No.:14 892 (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 Khata No.: 134,76,177,46,45,171,47,145,78,65,135,72 Khesra Name: (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)

	Checkpolat		Officer		Divisio	nal Fo	rest Offi	cer
1	Whether Distance of Project location from Reserved Forest/Protected Forest is 250 m7	No			No		9	
2	Whether Project location come under No Mining Zone? *	No			No			720
3	Does there any National park located within 10 km from project location? *	No	- 1		No			
4	Does there any Wildlife sanctuary located within 10 km distance from project location? *	No			No		9	
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	Pin Direct	100	Yes			
		-127	Division	DFC	Wildlife	Hazar	bach	

कु<u>ठताठ-1 एवं २</u>- भूमि की प्रकृति एवं वनभूमि से दूरी संबंधित वाधित सूचना यन प्रमण्डल यदाधिकारी, बोकारो वन प्रमण्डल के कार्यालय से प्राप्त करे। क<u>ार्ट्स0−3 से 8</u>− के संदर्भ में प्रतिवेदित करना दें कि प्रस्तावित परियोजना हेतु आयेदित स्थल Battery Point (23.6961985N 86.0644832E) से निकटतम सरशित क्षेत्र (Protected Area) तोपचाची बन्यप्राणी आश्रयणी अवस्थित है, तथा दन, पर्यावरण एवं जलवायु परिवर्तन भंत्रालय भारत रारकार द्वारा <u>पारसनाध</u> एवं तोषयांथी वन्यप्राणी आश्रयणी के अधिराधित ESZ के सीमा रो बाहर अवरिथत है। उपरोक्त सूचना आवेदक द्वारा समर्पित अभिलेख एवं GPS Point भारत Note-सरकार द्वारा प्रकारित ESZ के अधिसूचना तथा आवेदित स्थल से िकटतम संरक्षित क्षेत्र (Protected Area) के आधार पुर दी गयी है।

Divisional Forest Officer Divisional Food Officer

2058 Date of issue 29'11' 2021

Letter No.

Signature

dose.

1/1

CTE obtained from JSPCB, Ranchi vide letter no JSPCB/HO/RNC/CTE-15399804/2023/128, Dated 23.02.2023



JIIARKIIAND 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-15399804/2023/128 Dated: 2023-02-23

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

 Reference: Application (s) No.- 15399804 / dated: 31/01/2023 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 Environmental Clearance (EC) granted vide memo no. EC/SEIAA/2022-23/26462022/366, dated 30.01.2023.
- (b) The content of Consent to Establish (CTE), vide ref. no. JSPCB/HO/RNC/CTE-12699959/2022/195, dated 28.04.2022 for the production of Cement 2.0 Million TPA and D.G. Set of 1000 KVA (2 x 500 KVA) as per EC valid for the period of one year.
- (c) The content of check-list vide ref. no. 157, dated 09.02.2023.
- (d) The content of copy of the land lease document issued by BIADA for 30 yrs. w.e.f. 28.10.2021.
- (e) The content of certificate of DFO, vide ref. no. 2058, dated 28.11.2021.
- (f) The content of undertaking regarding procurement of raw material from valid sources.
- (g) The content of investment figure certified by CA.
- 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		-	
In Expansion	Industrial Area Plot No. IV/A- 7(P)4,	15.75 Acre	35.50 Crore	Expansion of capacity:- Cement- 2.0 MTPA to 3.1 MTPA; DG set - 2x500=1000 KVA	As per EC

(A) Specific Conditions:

- That, the occupier shall make Work area and transport roads and approach road off the main road concrete/ black top.
- That, the occupier shall install fixed type water sprinklers to cover all dusty places in the premises to impart water spraying intermittently.
- 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.
- 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).
- 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.
- 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.
- 7. That, the occupier shall use fly ash and or fly ash bricks in construction of the project.
- 8. 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.
- 9. That, the occupier shall obtain NOC from Central Ground Water Authority as per the norms.
- 10. That, the occupier shall dispose the solid waste as per applicable norms.
- That, the occupier shall dispose the hazardous waste as per applicable norms and shall obtain authorization under HoWM Rules' 2016.
- 12. That, the occupier shall adhere to ZLD.
- 13. That, the occupier shall devvelop greenery in an atleast 33 percent of area.
- 14. That, the occupier shall submit compliance of CTE and EC conditions on six monthly basis to JSPCB and other concerned organizations.
- 15. That, the occupier shall apply for CTO and shall submit compliance of CTE and EC conditions alongwith the photographs.

(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 channey(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.
- 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.

- This order shall be valid subject to compliance of all other legal requirements applicable to the unit.
- 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 Das Date: 2023.02.23

(Yatindra Kumar Das) Member Secretary

Dated: 2023-02-23

Memo No.: JSPCB/HO/RNC/CTE-15399804/2023/128

Copy to: 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 Digitally signed by Yatindra Kumar Das (Yatindra Kumar Das)
Das Date: 2023.0223 Member Secretary

Dated: 2024-02-24

CTO obtained from JSPCB Ranchi vide letter no. JSPCB/HO/RNC/CTO-17957569/2024/283 Dated 24.02.2024 and valid up to 31.03.2029

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/CTO-17957569/2024/283

Consent to operate (CTO) 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

- Application (s) dated 2023-12-27 of Bokaro Cement Manufacturing Works (A Unit of DCBL). Occupier Name: Priya Ranjan for consent under section 25 (1)(b)/25 (1) (c)/26 of the Water (Prevention & Control of Pollution) Act, 1974 and under section 21(1) of the Air (Prevention & Control of Pollution) Act, 1981...
- 2. Documents Relied Upon:
 - (a) The content of Environmental Clearance (EC) granted vide memo no. EC/SEIAA/2022-23/26462022/366, dated 30.01.2023.
 - (b) The content of Consent to Establish (CTE), vide ref. no. JSPCB/HO/RNC/CTE-12699959/2022/195, dated 28.04.2022 for the production of Cernent 2.0 Million TPA and D.G. Set of 1000 KVA (2 x 500 KVA) as per EC valid for the period of one year.
 - (c) The content of Consent to Establish (CTE), vide ref. no. JSPCB/HO/RNC/CTE-15399804/2023/128, dated 23.02.2023 for the production of Expansion of capacity:- Cement 2.0 MTPA to 3.1 MTPA: DG set 2x500=1000 KVA for the period as per EC.
 - (d) The content of Consent to Operate (CTO), vide ref. no. JSPCB/HO/RNC/CTO-15980338/2023/1752, dated 20.10.2023 for the production of Cement- 3.1 MTPA, DG set - 2x500=1000 KVA, vlaid for the period upto 31.03.2024.
 - (e) The content of Inspection Report (IR), vide ref. no. 82, dated 05.01.2024.
 - (f) The content of copy of the land lease document issued by BIADA for 30 yrs. w.e.f. 28.10.2021.
 - (g) The content of undertaking regarding procurement of raw material from valid sources.
 - (h) The content of investment figure certified by CA.
- 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 operate the project in
 Mauza -Gorabali , P S -Bokaro , District -BOKARO , as follows:

Project	Site-Area			Product & Capacity	Period of CTO
	Plot Nos.	Area			Date of issue

Before Expansion	As per EC	As per EC	576.04 Lacs [as per inestment figure certified by CA]	Cement- 3.1 MTPA, DG set - 2x500=1000 KVA (as per CTO)	31/03/2029
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(A) Specific Conditions:

- hat, the occupier shall make Work area and transport roads and approach road off the main road concrete/ black top.
- That, the occupier shall install fixed type water sprinklers to cover all dusty places in the premises to impart water spraying intermittently.
- 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).
- 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.
- 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.
- 7. That, the occupier shall implement all pollution control measures as recommended in EIA/EMP.
- 8. That, the occupier shall comply the recommendations of CREP.
- 9. That, the occupier shall use all solid wastes as resource as a raw material or a product.
- 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 norms.
- 11. That, the occupier shall adhere to Zero Liquid Discharge.
- 12. That, the occupier shall dispose the solid waste as per applicable norms.

- That, the occupier shall dispose the hazardous waste as per applicable norms and shall obtain authorization under HoWM Rules' 2016.
- 14. That, the occupier 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 9th 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.
- 15. That, the occupier 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) covering upwind and downwind directions.
- 16. That, the occupier shall install STP of adequate capacity and submit its report to the Board.
- 17. That, the occupier shall construct rain water harvesting system and shall operate and maintain the same.
- 18. That, the occupier shall construct rain water harvesting system and shall operate and maintain the same.
- 19. That, the occupier shall provide Personal Protection Equipment (PPE) as per the norms of factory act.
- 20. That, the occupier shall upgrade the pollution control equipment as and when required.
- That, the occupier shall submit compliance of EC and CTO conditions on six monthly basis to the Board.
- 22. That, the occupier shall submit applications for renewal of 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 again 120 days prior to the date of expiry of this consent with requisite fee and documents showing compliance of all of the above conditions.
- hat, this CTO supersedes the CTO granted earlier vide ref. no. JSPCB/HO/RNC/CTO-15980338/2023/1752, dated 20.10.2023.
 - (B) General Conditions:
 - (1) That, the occupier shall maintain the National Ambient Air Quality Standard given below:

			Concentration	in Ambient Air
SN	Pollutant	Time Weighted Average	Industrial, Residential, Rural and Other Area	Ecologically Sensitive Area (notified by Central Govt.)
(1)	(2)	(3)	(4)	(5)
1,	Sulphur Dioxide (SO2), µg/m3	Annual 24 hours	50 80	20 80
2.	Nitrogen Dioxide (NO2), µg/m3	Annual 24 hours	40 80	30 80
3.	Particulate Matter (size less than 10 µm) or PM10, µg/m3	Annual 24 hours	60 100	60 100
4.	Particulate Matter (size less than 2.5 µm) or PM2.5, µg/m3	Annual 24 hours	40 60	40 60
5.	Ozone(O3), µg/m3	8 hours 1 hour	100 180	100 180
6.	Lead (Pb) µg/m3	Annual 24 hours	0.50 1.0	0.50 1.0
7.	Carbon Monoxide (CO) mg/m3	8 hours 1 hour	02 04	02 04
8.	Ammonia (NH3) µg/m3	Annual 24 hours	100 400	100 400
9.	Benzene (C6H6) µg/m3	Annual	05	05
10,	Benzo(a) Pyrene(BaP) Particulate Phase only ng/m3	Annual	01	01
11.	Arsenic (As) ng/m3	Annual	06	06
12.	Nickel (Ni) ng/m3	Annual	20	20

Note: Serial no. 1 to 4 – Mandatory Serial no. 5 to 12 As applicable for specific type of industry. (2) That, the occupier shall maintain the emission quality within the standard and the quantity, as follows:

SN	Parameter	Standard	
1	Particulate Matter	150 mg/Nm3	

(3) That, the occupier shall keep process effluent in close-circuit and the quality of effluent from other sources in conformity with the standard (s) and the discharge quantity as below:

SN	Parameter	Standard	-
1	Total Suspended Solids	100 mg/L	
2	BOD	30 mg/L	
3	COD	250 mg/L	
4	Oil & Grease	10 mg/L	

(4) That, the occupier shall dispose of solid wastes as follows:

SN	Waste Type	Mode of Disposal
1	Hazardous Carbonaceous Wastes	In co-processing in high temperature furnaces or kilns
2	Hazardous Non-Carbonaceous Wastes	In TSDF
3	Non-Carbonaceous Non- Hazardous solid wastes/ Mine Over Burden	As a substitute of Soil or Mineral

- (5) That, the occupier shall keep D G Set(s) within acoustic enclosure and shall keep the height(s) of exhaust pipe(s) as per Central Pollution Control Board norm.
- (6) That, the occupier shall install and maintain Central Ground Water Board/ State Ground Water Directorate approved system of rain water harvesting-cum-ground water recharge and submit the photographic view of the structures within a month.
- (7) That, the occupier shall grow and maintain greenery of the project in the periphery and other available spaces and shall continue enhancing its plant density and biodiversity.
- (8) That, the occupier shall submit environmental statement with supporting stoichiometric calculations analyses reports, every year latest by 30th September of the next financial year.
- (9) That, the occupier shall submit report(s) duly monitored and issued by an NABL accredited / ISO 9001:2008 and OHSAS 18001:2007 certified laboratory in compliance sub-para (2), (3), (4) and (5) of paragraph 3 of this CTO yearly at required periodicity.

- (10) That, this CTO 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.
- (11) That, this CTO 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.
- (12) That, this CTO 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.
- (13) 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 made there under.
- That, this CTO 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.
- That, this CTO is being issued on the basis of information/documents/certificate submitted by the
 unit. This CTO will be revoked if any of the information/documents/certificates/undertaking given
 by the occupier is found false/fictitious/forged in future.
- The Order shall be valid subject to compliance of all other legal requirements applicable to the unit.

7. The State Board reserve the right to revoke, withdraw or make any reasonable variation / change / alteration in conditions of this consent.

Yatindra | Digitally signed by Yatindra Kumar Das

This is issued with the approval of the Competent authority Kumar Das Date: 2024.02.24
(Yatinara Ruthar Das)

Member Secretary Dated: 2024-02-24

Memo No.: JSPCB/HO/RNC/CTO-

17957569/2024/283

Copy to: M/s Bokaro Cement Manufacturing Works (A unit of Dalmia Cement (Bharat) Limited, AtPlot 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 Digitally signed by Yatindra Kumar Das)
Kumar Kumar Das Member Secretary
Date: 2024,02.24

Das // 18:36:59 +05'30'

Annexure-V

Water permission letter from JIADA

झारखण्ड औद्योगिक क्षेत्र विकास प्राधिकार बोकारो प्रक्षेत्र, बियाडा भवन, बालीडीह, बी०एस०सिटी-14. email: mdbiadabokaro@gmail.com पत्रांक : सेवा मे. अवर प्रमण्डल पदाधिकारी, पेय जल एवं स्वच्छता अवर प्रमण्डल बोकारो स्टील सिटी । विषय: हकाई के जलापूर्ति के संबंध में। महाशय, आपका उपर्युक्त विषय आलोक में इकाई सर्वश्री डालमिया सीमेंट (भारत) संख्या-क्षेत्र, बीठएसठसिटी-14 के 1.50 (एक लाख पचास हजार) लीटर प्रति दिन जल विश्वासभाजन, *ई ५* क्षेत्रीय निदेशक जियाडा, बोकारो प्रक्षे ज्ञापांक : संख्या-प्रतिलिपि : सर्वश्री डालिमया सीमेंट (भारत) औद्योगिक क्षेत्र, बी०एस०सिटी-14 को सूचनार्थ प्रेषित । क्षेत्रीय निदेशक जियाडा, बोकारो प्र

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 2rd unit from the existing water agreement. This is for your information and necessary action.

Thanking You

Sub-Divisional Office DWS Sub-Division, Sub

Bokald

Memo No. 36

Bokaro/Date 13 4 22

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

Authorization of Hazardous waste obtained from JSPCB Ranchi vide letter no. JSPCB/HO/RNC/HWM-16948442/2024/14 dated 4.03.2024



JHARKHAND STATE POLLUTION CONTROL BOARD

T.A. DIVISION BUILDING (GROUND FLOOR), H.E.C., DHURWA, RANCHI -834004 Phone::2400852, 2400851, Fax:0651- 2400850 www.jspcb.org

FORM 2

[See rule 6(2)]

FORM FOR GRANT OR RENEWAL OF AUTHORIZATION BY STATE POLLUTION CONTROL BOARD TO THE OCCUPIERS, RECYCLERS, REPROCESSORS, REUSERS, USER AND OPERATORS OF DISPOSAL FACILITIES

No. of authorization and date of issue: JSPCB/HO/RNC/HWM-16948442/2024/14 04/03/2024

Reference of application(No. and date): 16948442 19/10/2023

Bokaro Cement Manufacturing Works (A Unit of DCBL) of Priya Ranjan is hereby granted an
authorisation based on the enclosed signed inspection report for generation, collection, reception, storage,
transport, reuse, recycling, recovery, pre-processing, co-processing, utilisation, treatment, disposal or any
other use of hazardous or other wastes or both on the premises situated at Plot no-IV/A-7P4, Bokaro
Industrial Area, Balidih

Details of Authorisation

Sl.No.	Category of Hazardous Waste as per the Schedules I, II and III of these rules	Authorised mode of disposal or recycling or utilisation or co-processing, etc.	Quantity(ton/annum)
1	Cat-l; Used/Spect Oil (5.1)	Kept in MS Drums; sold to authorized recyclers	13 TPA
2	Cat-l; Wastes/residues containing Oil (5.2)	Kept in MS Drums; Sold to authorized recyclers	15 TPA

- (1) The authorisation shall be valid for a period of Date of issue to 30.09.2028
- (2) The authorisation is subject to the following general and specific conditions (Please specify any conditions that need to be imposed over and above general conditions, if any):
- A General conditions of authorisation:
- The authorised person shall comply with the provisions of the Environment (Protection) Act, 1986, and the rules made there under.
- The authorisation or its renewal shall be produced for inspection at the request of an officer authorised by the State Pollution Control Board.
- The person authorised shall not rent, lend, sell, transfer or otherwise transport the hazardous and other wastes except what is permitted through this authorisation.
- Any unauthorised change in personnel, equipment or working conditions as mentioned in the application by the person authorised shall constitute a breach of his authorisation.

- 5. The person authorised shall implement Emergency Response Procedure (ERP) for which this authorisation is being granted considering all site specific possible scenarios such as spillages, leakages, fire etc. and their possible impacts and also carry out mock drill in this regard at regular interval of time.
- The person authorised shall comply with the provisions outlined in the Central Pollution Control Board
 guidelines on "Implementing Liabilities for Environmental Damages due to Handling and Disposal of
 Hazardous Waste and Penalty"
- It is the duty of the authorised person to take prior permission of the State Pollution Control Board to close down the facility.
- The imported hazardous and other wastes shall be fully insured for transit as well as for any accidental
 occurrence and its clean-up operation.
- 9. The record of consumption and fate of the imported hazardous and other wastes shall be maintained.
- The hazardous and other waste which gets generated during recycling or reuse or recovery or pre-processing
 or utilisation of imported hazardous or other wastes shall be treated and disposed of as per specific
 conditions of authorisation.
- 11. The importer or exporter shall bear the cost of import or export and mitigation of damages if any.
- 12. An application for the renewal of an authorisation shall be made as laid down under these Rules.
- Any other conditions for compliance as per the Guidelines issued by the Ministry of Environment, Forest and Climate Change or Central Pollution Control Board from time to time.
- 14. Annual return shall be filed by June 30th for the period ensuring 31st March of the year.
- B Specific conditions:

- 1. That, the occupier shall take prior permission of the Board to close down the plant.
- 2. That, the renewal of authorization will be subject to compliance of the conditions laid down in this authorization.
- 3. That, the occupier shall comply with the conditions as per the guidelines prescribed by the MoEF for
- 4. That, the occupier shall comply with all the conditions laid down in this authorization.
- That, the occupier shall submit quarterly report on hazardous wastes generated and consumed in its sources, products generated or resources conserved (specifying the details like type and quantity of resources conserved) to the Board.
- That, the occupier shall maintain a log book containing information on quantity on generation, date wise utilization of the same and its disposal, etc.
- 7. That, the occupier shall maintain record of Hazardous Waste utilized, Hazardous Waste generated and disposal as per form-3 and shall submit the annual returns in form-4 as per Rule 20 (1) and (2) of the Hazardous and other waste (Management & Transboundary Movement) Rules, 2016 to the Board.
- 8. That, the occupier shall comply with all the directions given by standard operating procedure.
- 9. That, the occupier shall be responsible for safe and environmentally sound management of hazardous and other wastes.
- 10. That, the hazardous and other wastes generated in the establishment of an occupier shall be sent or sold to an authorised actual user or shall be disposed of in an authorised disposal facility.
- 11. That, the hazardous and other wastes shall be transported from an occupier's establishment to an authorised actual user or to an authorised disposal facility in accordance with the provisions of these rules.
- 12. That, the occupier shall take all the steps while managing hazardous and other wastes to-(a) contain contaminants and prevent accidents and limit their consequences on human beings and the environment: and
- (b) provide persons working in the site with
- 13. That, the occupier shall comply with all the conditions laid down in this authorization mentioned in general and specific conditions.
- 14. That, the occupier shall install a display Board outside its plant showing details such as

(a) status of CTO; (b) Status of authorization granted;

(c) Disposal/reuse of hazardous waste generated in the plant and other relevant information as per prescribed guideline and update the same as required.

Digitally signed Yatindra by Yatindra Kumar Das Kumar Das Date: 2024.03.04 10:25:17 +05'30" 11

Memo No:JSPCB/HO/RNC/HWM-16948442/2024/14

Date: 04/03/2024

Member Secretary

Y. K. Das

Regional Officer, Regional Office, JSPCB, Hazaribagh for information and necessary action.

Digitally signed by Yatindra Yatindra Kumar Kumar Das 0846: 2024/03.04 Y. K. Das 102539 Nichiber Secretary

Annexure: VII

Bokaro Cement Manufacturing Works (Unit of DCBL)

Stack emission monitoring report

On Line CEMS report from October 2024 to March 2025

Month	Min.	Max.	Avg.
Oct-2024.	2.5	10.3	6.4
Nov-2024.	3.1	4.9	4.0
Dec-2024.	4.2	7.0	5.6
Jan-2025.	5.9	9.7	7.3
Feb-2025.	4.5	5.9	5.2
Mar-2025.	4.1	15.7	10.4
Min.	2.5	4.9	4.0
Max.	5.9	15.7	10.4
Avg.	4.1	8.9	6.5

Manual Stack emission monitoring report from October 2024 to March 2025

Month	Min.	Max.	Avg.
Oct-2024.	4.6	7.6	6.1
Nov-2024.	5.7	13.5	9.6
Dec-2024.	5.3	10.9	8.1
Jan-2025.	6.8	11.5	9.2
Feb-2025.	4.7	8.3	7.8
Mar-2025.	8.3	9.6	9.0
Min.	4.6	7.6	6.1
Max.	8.3	13.5	9.6
Avg.	6.3	10.2	8.3

JSPCB Norms	30 mg/Nm3	
351 CD I TOTMS	50 mg/14m5	



Institute for Environmental Management



Test Report

ULR No.:	T	C	1	5	2	9	2	2	5	0	0	0	0	0	0	5	2	3
Discipline: Cl	nemical			-		Gro	up: A	tmosp	heric	Pollu	ion		Sub-C	roup:	Stack	Emiss	ion	
Report Issue	Date: 1	0-03-7	2025				*****		Te	st Re	port f	Va.:	RN-241	10500	551			
Sample ID: 2	50307AP	09001							Sa	mple	Desc	riptio	n: Sta	ck Emi	ssion			
Challan No./	P.O. No.	: 454	80433	46/23	7				CH	allan	No./	P.No	. Date	: 05-1	1-2024			
						Works				Ceme	eut (B	nara	t) Lim	ted				
Plo Bo	t No IV	A-7(P	7/4), B	okard	Indu	strial	Ares	Balid	ih Ila			ARTES DE			nieev	Verm	a	
Plo Bo	karo Sto stry: Cer	A-7(P sel Ci ment	ty, Bo	okard	Indu	strial	Ares	Balid	ih Sia Ci	uston	ner R	pre	sentati	ve: Sa	njeev	Verm	a	
Plo Bo Type of Indu	karo Ste stry: Cer wn by: I	A-7(Poel Ciment	ty, Bo	okaro-	8270	strial 14 Jha	Area	Balid nd Inc	ih fla Cı Sa	uston	ner R	pre	sentat	ve: Sa	njeev	Verm	a	
Plo Bo Type of Indu Sample Drav	karo Str stry: Cer wn by: II	A-7(Poel Ciment ment EM Te	eam LATS/	okaro-	8270°	strial 14 Jha 1) & IS	Area rkhar Meth	Balid nd Inc	ih fla Cı Sa	uston implir eries	ner R	epre	sentat 5-03-20	ve: Sa			to SE	

General Physical Information					
Stack Identification	Cement Mill Bag House Stack	Sampling Port	Available		
Plat Form	Permanent	Stack Height from Ground Level (m)	50		
Stack Description -	Common for cement mill- 1 & 2	Port Hole Height from Ground Level (m)	40		
Shape of Stack	Circular	Inner Dimension of Stack (m)	3.7		
Construction Material	MS	Pollution Control Device (if any)	Bag House		

Flue Gas Temperature (K): 379 | Flue Gas Velocity (m/s): 20.5 | Flue Gas Volumetric Flow Rate (Nm³/hr):605749.1

	Test R	ė
		-

SI. NO.	Parameters	Test Methods	Unit	Result	Limits
1.	Particulates Matter (PM)	IS 11255 (Part-1)	mg/Nm³	8.6	30.0

Dust	Kg/hr	5.21

--End of Report---

Env. Condition of Lab.	Laboratory is maintaining Temperature 272.2°C and Relative Humidity 65:5 % in all testing area as per IS 196:1966(C).
Abbreviation	MOL: Minimum Detection Limit, BDL: Below Detection Limit
Limit is Specified	As per the Environmental (Protection) Rule = 1986
Remark	Sample Comply with prescribed specification.

Tested By: Akanksha Sourabh

Sample Drawn By: Siddharth kumar & Team

		and the same of th
Specific Contractual Notes: -	Reviewed by	one Authorized Signatory
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Total labelity of institute for Environmental Management will be lamited to invoiced amount only. In case of feedback/ complaints, please send an email at don emecotingmail com	(Taugeer Ahmad)	(Dr. S. C. Jain)
On the basis of Quality Checked and Technical data vented by the Authorized signatory, the report is issued by the Director of the Organization.	Technical Manager	Director

Page 1of 1

Corporate office - A-8, Modi Heights, Opp.-All India Radio Station, Ratu Road, Ranchi, Jharkhand - 834001

Annexure-VIII

Bokaro Cement Manufacturing Works (Unit of DCBL)

Fugitive dust emission monitoring report

October 2024 to March 2025

Sr. No	Date of monitoring	Near Mill area µg/m3	Near Packing plant µg/m3	Near Clinker Silo µg/m3
1	October-2024.	678.2	825.6	714.8
2	November-2024.	527.3	782.3	837.4
3	December-2024.	683.8	845.5	783.12
4	January-2025.	874.6	743.4	874.9
5	February-2025.	918.7	985.7	923.3
6	March-2025.	815.2	1013.4	687.5
	Min.	527.3	743.4	687.5
	Max.	918.7	1013.4	923.3
	Avg.	749.63	866.0	803.5

Fugitive Emission monitoring report



Institute for Environmental Management



Test Report

Discipline: Chemical	Gro	Group: Atmospheric Pollution Sul		Sub-Group: Work Environment & Indoor Air			
Report Issue Date: 10-03	-2025		Test 8	st Report No.: RN-241105005FE01			
Sample ID: 250307AP10001 Sample ID: 250307AP10001			Samp	Sample Description: Fugitive Emission			
			Challa	Challan No./ P.No. Date: 05-11-2024			
Bokaro Steel C	ity, Boka	aro Industrial Area ro-827014 Jharkha	nd India	tomer Representative: Sanjeev Verma			
Type of Industry: Cement Sample Drawn by: IEM Team			Sampling Date: 06-03-2025				
Protocol: CPCB Guideline	(NAAQMS	/36/2012-13) & IS f	Method 518	82 Series			
The state of the s	-	/36/2012-13) & IS f	Method 518	82 Series			
Protocol: CPCB Guideline	ng Plant	/36/2012-13) & IS f					

---Test Results----

SI. No.	Parameters	Test Method No.	Unit	Limit	Results
1.	Suspended Perticulate Matter (SPM)	IS 5182 Part - 04	µg/m³	2000	725.5

--- End of Report---

Env.Condition of Lab.	Laboratory is maintaining Temperature 27± 2°C and Relative Humidity 65±5 % in all testing area as per IS 196:1966(C).
Abbreviation	MDL Minimum Dataction Limit, 8DL: Salow Dataction Limit
Limit is Specified	As Per Factories Act, 1948.(8 hrs. Basis)
Remark	Sample Comply With the PrescribredSpelication.

Tested By:Akanksha Sourabh

Sample Drawn By: Siddharth Kumar & Team

Reviewed by Ann Authorized Signatory
T. Almoel (case)
(Taugeer Ahmad) (Dr. S. C. Jain)
Technical Manager Director

Page 1 of 1





Test Report

Discipline: Chemical	emical Group: Atmospheric Pollution		llution S	ion Sub-Group: Work Environment & Indoor			
Report Issue Date: 10-03-	2025		Test Re	Test Report No.: RN-241105005FE02			
Sample ID:250307AP10002		Sample	Sample Description: Fugitive Emission				
Challan No./P.O. No.: 4548043346/237			Challan	Challan No./ P.No. Date: 05-11-2024			
DI-4 N- 11/16 7/							
Bokaro Steel C	ity, Bokar	aro Industrial Area ro-827014 Jharkha	nd India	ner Penre	eentative: Sa	oiceu Verma	
Bokaro Steel C Type of Industry: Cement	ity, Bokar		nd India Custon		sentative: Sa	njeev Verma	
Bokaro Steel C Type of Industry: Cement Sample Drawn by: IEM T	ity, Bokar eam	ro-827014 Jharkha	nd India Custon Samplin	ng Date:00	sentative: Sa 5-03-2025	njeev Verma	
Bokaro Steel C	eam NAAQMS	ro-827014 Jharkha /36/2012-13) & IS N	nd India Custon Samplin	ng Date:00	And in case of the last of the	njeev Verma	
Bokaro Steel C Type of Industry: Cement Sample Drawn by: IEM T Protocol: CPCB Guideline	eam NAAQMS Material Ya	ro-827014 Jharkha /36/2012-13) & IS N ard	nd India Custon Samplin Method 5182	ng Date:06 Series	And in case of the last of the	njeev Verma W.D.: NW to SE	

--- Test Results----

SI. No.	Parameters	Test Method No.	Unit	Limit	Results
1.	Suspended Perticulate Matter (SPM)	IS 5182 Part - 04	µg/m³	2000	799.9

Env.Condition of Lab.	Laboratory is maintaining Temperature 27± 2°C and Relative Humidity 65±5 % in all testing area as per IS 196:1966(C).
Abbreviation	MDL: Minimum Delection Limit, BDL: Below Delection Limit
Limit is Specified	As Per Factories Act, 1948.(8 hrs. Basis)
Remark	Sample Comply With the PrescribredSpefication.

Tested By:Akanksha Sourabh

Sample Drawn By: Siddharth Kumar & Team

Specific Contractual Notes -		eller en
The laboratory accepts responsibility for content of this report.	Reviewed by // Authorized Signal	ory
The accuracy accepts reproduced except in full, without written approval of the MO. This report is intended for only guidance and not for legal purpose or for advertisement. Any complaint about this report should be communicated in writing within 7 days of its issue. Total labeling of treature for Environmental Management will be intreated in invocade amount only.	下外~~~	_
In case of feedback/ complaints, please send an email at gom iemeco@gmail.com	(Taugeer Ahmad + (Dr./S. C. Jain)	
On the basis of Quality Checked and Technical data verified by the Authorized signatory, the report is issued by the Director of the Organization.	Technical Manager Director	

Page 1 of 1





Test Report

Discipline: Chemical	Group: Atmospheric Pollution Sub-		ilution S	ub-Group: Work Environment & Indoor Air		
Report Issue Date: 10-03-2025		Test Re	Test Report No.: RN-241105005FE03			
Sample ID:250307AP10003		Sample Description: Fugitive Emission				
Challan No./P.O. No.: 4548043346/237			Challan	Challan No./ P.No. Date: 05-11-2024		
LIOT IAO IAIW-I	(FI4), DUK	aro Industrial Area	Danum			
The second secon		ro-827014 Jharkha	nd India	ner Representative: Sanieev Verma		
Bokaro Steel C Type of Industry: Cemen Sample Drawn by: IEM	t		nd India Custon	ner Representative: Sanjeev Verma		
Type of Industry: Cemen Sample Drawn by: IEM	t Team	ro-827014 Jharkha	nd India Custon Sampli	ng Date:06-03-2025		
Type of Industry: Cemen	t Team (NAAQMS	ro-827014 Jharkha	nd India Custon Sampli	ng Date:06-03-2025		
Type of Industry: Cemen Sample Drawn by: IEM Protocol: CPCB Guideline	t Team (NAAQMS Area	ro-827014 Jharkha	Custon Sampli Method 5182	ng Date:06-03-2025		

-Test Results-

SI. No.	Parameters	Test Method No.	Unit	Limit	Results
1.	Suspended Perticulate Matter (SPM)	IS 5182 Part - 04	µg/m³	2000	839.4

-End of Report-

Env.Condition of Lab.	Laboratory is maintaining Temperature 27± 2°C and Relative Humidity 65±5 % in all testing area as per IS 196:1966(C).
Abbreviation	MDL: Minimum Detection Limit, BDL: Below Detection Limit
Limit is Specified	As Per Factories Act, 1948 (8 hrs. Basis)
Remark	Sample Comply With the PrescribredSpelication.

Tested By:Akanksha Sourabh

Sample Drawn By: Siddharth Kumar & Team

Name and the second of the sec	
Specific Contractual Notes: -	Reviewed by // Authorized Signatory
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In case of feedback/ complaints, please send an email at gom remecostic mail com	(Taugeer Ahmad) (Dr./S. C. Jain)
On the base of Quality Checked and Technical data verified by the Authorized signatory, the report is issued by the Director of the Organization.	Technical Manager Director

Page 1 of 1

Annexure-IX

Bokaro Cement Manufacturing Works (Unit of DCBL)

On line Ambient Air Quality Monitoring report from October 2024 to March 2025 towards Gorabali Village

	On Line CAAQN	is ivionitoring	report	
	SO2	NOx	PM-10	PM-2.5
	μg/m3	μg/m3	μg/m3	μg/m3
Month	9			
October-2024.	3.6	26.9	39.8	17.4
November-2024.	4.8	20.8	45.9	21.3
December-2024.	2.9	21.7	48.1	22.7
January-2025.	3.8	15.1	42.4	19.9
February-2025.	4.6	16.7	51.3	23.6
March-2025.	3.7	13.9	54.8	27.7
Min	2.9	13.9	39.8	17.4
Max	4.8	26.9	54.8	27.7
Avg	3.9	19.5	47.1	22.3

Bokaro Cement Manufacturing Works (Unit of DCBL)

Ambient Air Quality Monitoring report from October 2024 to March 2025



Institute for Environmental Management



Test Report

ULR No.:	T	C	1	5	2	9	12	2	5	0	0	0	0	0	0	5	0	6
Discipline: Cl	emical				G	roup:	Atmo	spher	ic Poll	lution		5	ub-Gr	oup: A	mbie	nt Air		-
Report Issue	Date: 10	-03-20	25		= 1/4			Te	est Re	port P	No.: R	N-241	10500	5A1				
Sample ID: 2	50307API	07001						Sa	mple	Desc	riptio	a: Am	bient	Air				
Challan No./	P.O. No.:	454804	43346	3/237				CI	hallan	No./	P.No.	Date:	05-1	1-202	4			
Plo	karo Cen t No IV/A	-7(P)4	, Bok	aro Ir	ndus	trial Ar		alidih		emen	t (Bha	erat) L	lmite	d				
Pic Bo	t No IV/A	-7(P)4	, Bok	aro Ir	ndus	trial Ar		alidih d Indi:			UŠR	883			Verm			
Pic Bo Type of Indu	t No IV/A karo Stee stry: Cem	-7(P)4, of City, ent	, Bok Boka	aro Ir	ndus	trial Ar		d India	uston	ner Ro	pres	entati	vo: Sa	njeev	Mark Street, Square, S	a		
Pic Bo Type of Indu Sample Drav	t No IVIA karo Stee stry: Cem vn by: IE	I-7(P)4, of City, ent M Tear	, Bok Boka n	aro Ir iro-82	27014	trial Ar	rea B khan	alidih d India Co	a uston impli	ner Ro	prese	entati	vo: Sa	njeev	Mark Street, Square, S	a		
Pic Bo	t No IVIA karo Stee stry: Cem vn by: IE :B Guidel	-7(P)4 of City, ent M Tear ine(NA	Boka Boka n AQM	aro Ir 10-82 5/36/	27014 27014	rial Ar L Jhari	ea B khan IS M	alidih d India Co	a uston impli	ner Ro	prese	entati	vo: Sa	njeev	Mark Street, Square, S	a		
Pic Bo Type of Indu Sample Drav Protocol: CP	t No IV/A karo Stee stry: Cem vn by: IE B Guidel ation: Go	A-7(P)4, of City, ent M Tear ine(NA orabali	n AQM Villag	s/36/ e (Ne	27014 27014 2012 ear Te	t Jhari	is M	alidih d Indi Co Sa ethod	a uston impli 5182	ner Ro ng Dat Series	prese	ontati 03-20	ve: Sa 25 to	njeev 07-03	2025	a NW to	SE	

----Test Results----

SI. No.	Parameters	Test Method No.	Unit	Norms as per NAAQS - 2009	Results
1.	Particulate Matter (PM ₁₀)	IS 5182 Part 23:2006	hg/w ₃	100	61.2
2.	Particulate Matter (PM2s)	IS 5182 Part 24:2019	µg/m³	60	26.7
3.	Sulphur Dioxide (SO ₂)	IS 5182 Part-02	µg/m³	80	15.3
4.	Nitrogen Dioxide (NO ₂)	IS 5182 Part-06	µg/m³	80	28.4
5.	Ammonia (NH ₃)	IS 5182 Part 25	µg/m³	400	14.0
6.	Ozone (O ₃)	IS 5182 Part 09	µg/m³	100	21.2
7.	Arsenic (as As)	USEPA I.O. 3.2	ng/m³	_	BDL (MDL-2)
8.	Lead (as Pb)	IS 5182 Part 22	µg/m³	1.0	0.05
9.	Nickel (as Ni)	IS 5182 Part 26	ng/m³		BDL (MDL-4)

---End of Report---

Env.Condition of Lab.	Laboratory is maintaining Temperature 27± 2°C and Relative Humidity 65±5 % in all testing area as per IS 196:1966(C).
Abbreviation	MDL: Minimum Detection Limit, BDL: Below Detection Limit
Limit is Specified	As per the Environmental (Protection) Rule – 1986
Remark	Sample Comply with prescribed specification.

Tested By:Akanksha Sourabh

Sample Drawn By:Siddharth Kumar & Team

Specific Contractual Motes: +	Reviewed by Authorized Signatory
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Total labelity of institute for Environmental Management will be limited to invoiced amount only. In case of feedback/ complaints, please send an email at dom immediately mail com.	(Taugeer Ahmad) (Dr/S. C. Jain)
On the basis of Quality Checked and Technical data verified by the Authorized signatory, the report	Technical Manager Rande Director

Page 1 of 2

Corporate office - A-8, Modi Heights, Opp.-All India Radio Station, Ratu Road, Ranchi, Jharkhand - 834001

Laboratory Site - H.No. — A-13, Saket Vihar, Near Sohrai Bhawan, Harmu Housing Colony, Ranchi-834002, Jharkhand, India Ph - 8407804253, 8407804251, Email - lem2012@rediffmail.com





Test Report

Discipline: Chemical	Group: Atr	nospheric Pollution	Sub-Group: Ambient Air
Report Issue Date: 10-03-2025	M	Test Report N	o.: RN-241105005A1
Sample ID: 250307AP07001		Sample Descr	iption: Ambient Air
Challan No./P.O. No.: 4548043	346/237	Challan No./ I	No. Date: 05-11-2024
	lokaro Industrial Area	Danum	
	okaro-827014 Jharkha		presentative: Sanieev Verma
Type of Industry: Cement	okaro-827014 Jharkha	Customer Re	presentative: Sanjeev Verma e:06-03-2025 to 07-03-2025
Type of Industry: Cement Sample Drawn by: IEM Team		Customer Re Sampling Date	presentative: Sanjeev Verma e:06-03-2025 to 07-03-2025
Type of Industry: Cement Sample Drawn by: IEM Team Protocol: CPCB Guideline(NAAC	QMS/36/2012-13) & IS	Customer Re Sampling Date	
Type of Industry: Cement	QMS/36/2012-13) & IS llage (Near Temple)	Customer Re Sampling Date Method 5182 Series	

--- Test Results----

SI. No.	Parameters	Test Method No.	Unit	Norms as per NAAQS - 2009	Results
10.	Benzo (a) Pyrene (BaP) Particulate phase only	IS 5182 Part 12	ng/m³		BDL (MDL-0.18)
11.	Carbon Monoxide (CO)	IEM/SOP/Air-01:2022	mg/m³		BDL(MDL-1.8)
12.	BENZENE (C ₆ H ₆)	IS 5182 Part 11	µg/m³		BDL (MDL-0.06)

---End of Report----

Env.Condition of Lab.	Laboratory is maintaining Temperature 27± 2°C and Relative Humidity 65±5 % in all testing area as per IS 196:1966(C).
Abbreviation	MDL: Minimum Detection Limit, BDL: Below Detection Limit
Norms** is Specified	National Ambient Air Quality Standards (NAAQS), 2009.
Remark	Sample Comply with prescribed specification.

Tested By:Akanksha Sourabh

Sample Drawn By:Siddharth Kumar & Team

Specific Contractual Notes -	Reviewed by Authorized Signatory
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6. In case of leedback/ complaints, please send an email at dom immeco@gmail.com	(Taugeer Ahmad) (Df/S. C. Jain)
On the basis of Quality Checked and Technical sats vented by the Authorized signatory, the report is issued by the Director of the Chamicatop. S. Model Hericitis. Copp. All India Englis Shafe	Technical Manager Ford Director

Page 2 of 2

Laboratory Site + H.No. - A-13, Saket Vihar, Near Sohrai Bhawan, Harmu Housing Colony, Ranchi-834002, Jharkhand, India

Ph - 8407804253, 8407804251, Email - iem2012@rediffmail.com





Test Report

ULR No.:	T	C	1	5	2	9	2	2	5	0	0	0	0	0	0	5	0	7
Discipline: Ch	emical	-	13)	88.	G	roup: A	tmos	pheric	c Poll	ution	(3)	5	ub-Gr	oup: A	mbie	nt Air		
Report Issue)ate: 10	0-03-2	025					Te	st Re	port M	No.: R	V-241	10500	5A2				
Sample ID:25	307AP	7002						Sai	mple	Desc	ription	: Am	bient	Air				
Challan No./F	.O. No.:	45480	043346	3/237	7)			Ch	allan	No./	P.No.	Date	05-1	1-2024	1			
Plot	No IVI	4-7(P)	4, Bok	aro li	ndus	orks, Utrial Are	a Ba	ildih		emer	nt (Bh	arat)	Limite	d	1.7			
Plot Bok	No IVI	A-7(P) el City	4, Bok	aro li	ndus		a Ba	ildih India				.25			Vorm			
Plot Bok Type of Indus	No IVII aro Ste try: Cen	A-7(P) el City nent	4, Bok	aro li	ndus	trial Are	a Ba	IIdih India Cu	ston	ner Re	epres	entati	ve: Sa	njeev				
Pior Bok Type of Indus Sample Draw	No IV// aro Ste try: Cen n by: IE	A-7(P) el City nent M Tea	4, Bok , Bok am	aro li ero-8	27014	trial Are 4 Jhark	a Ba	IIIdih India Cu Sa	stom	ner Re	eprese	entati	ve: Sa	njeev				
Plot Bok Type of Indus Sample Draw Protocol: CPC	No IV// aro Ste try: Cen n by: IE B Guide	A-7(P) el City nent M Tea line(N	4, Bok , Bok am AAQM	aro li ero-8: 5/36/	27014 27012	trial Are 4 Jhark -13) & I	a Ba hand S Met	India Cu Sai	stor mplir	ner Re	eprese	entati	ve: Sa	njeev				
Plot Bok Type of Indus	No IV// aro Ste try: Cen n by: IE B Guide atlon Th	A-7(P) el City nent M Tea line(N akurta	4, Bok y, Bok am AAQM and Vil	s/36/ age (27014 27014 /2012 Near	trial Are 4 Jhark -13) & I Anganw	s Met	India Cu Sai thod S Kendra	mplir 5182	ner Ro ng Dat Series	eprese	ontati 03-20	ve: Sa 25 to	njeev 07-03	-2025		SE	

--- Test Results---

SI. No.	Parameters	Test Method No.	Unit	Norms as per NAAQS - 2009	Results
1.	Particulate Matter (PM ₁₀)	IS 5182 Part 23:2006	µg/m³	100	52.1
2.	Particulate Matter (PM25)	IS 5182 Part 24:2019	µg/m³	60	25.2
3.	Sulphur Dioxide (SO ₂)	IS 5182 Part-02	µg/m³	80	17.7
4.	Nitrogen Dioxide (NO ₂)	IS 5182 Part-06	µg/m³	80	29.5
5.	Ammonia (NH ₃)	IS 5182 Part 25	µg/m³	400	13.2
6.	Ozone (O ₃)	IS 5182 Part 09	µg/m³	100	18.9
7.	Arsenic(as As)	USEPA I.O. 3.2	ng/m³		BDL (MDL-2)
8.	Lead(as Pb)	IS 5182 Part 22	µg/m³	1.0	0.05
9.	Nickel (as Ni)	IS 5182 Part 26	ng/m³	_	BDL (MDL-4)

-End of Report-

Env.Condition of Lab.	Laboratory is maintaining Temperature 27± 2°C and Relative Humidity 65±5 % in all testing area as per IS 196:1966(C).
Abbreviation	MDL: Minimum Detection Limit, BDL: Below Detection Limit
Limit is Specified	As per the Environmental (Protection) Rule - 1986
Remark	Sample Comply with prescribed specification.

Tested By:Akanksha Sourabh

Sample Drawn By:Siddharth Kumar & Team

Specific Contractual Notes -	Reviewed by Authorized Signatory
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 In case of feedback/ complems, please send an arreal at dgm iemeco@gmail.com 	(Taugeer Ahmad) / (Dr. S. C. Jain)
On the basis of Quality Checked and Technical data verified by the Authorized signatory, the report is issued by the Director of the Organization.	Technical Manager Rant Director
Page 1 of 2	1 1

Corporate office - A-8, Modi Heights, Opp.-All India Radio Station, Ratu Road, Ranchi, Jharkhand - 834401

Ranchi-834002, Iharkhand, India

Ph-8407804253, 8407804251, Email-iem2012@rediffmail.com





Test Report

Discipline: Chemical	Group: Atm	ospheric Polluti	on Su	b-Group: Ambient Air
Report Issue Date: 10-03-2025		Test Repo	rt No.: RN-2411	05005A2
Sample ID:250307AP07002		Sample De	escription: Amb	ient Air
Challan No./P.O. No.: 4548043346/	237	Challan N	o./ P.No. Date:	05-11-2024
Plot No IV/A-7(P)4, Bokar Bokaro Steel City, Bokar Type of Industry: Cement		nd India	Representativ	e: Sanjeev Verma
Sample Drawn by: IEM Team				5 to 07-03-2025
Protocol: CPCB Guideline(NAAQMS,	36/2012-13) & IS N	Method 5182 Se	ries	
Sampling Location Thakurtand Villa				Carlos .
Field Meteorological Information	A. Temp. (°C):22	R.H. (%):47	W.C.: Sunny	W.D.: NW to SE

-Test Results-

SI. No.	Parameters	Test Method No.	Unit	Norms as per NAAQS - 2009	Results
10.	Benzo (a) Pyrene (BaP) Particulate phase only	IS 5182 Part 12	ng/m³	-	BDL (MDL-0.18)
11.	Carbon Monoxide (CO)	IEM/SOP/Air-01:2022	mg/m³	_	BDL(MDL-1.8)
12.	BENZENE (C ₆ H ₆₎	IS 5182 Part 11	µg/m³		BDL (MDL-0.06)

--- End of Report----

Env.Condition of Lab.	Laboratory is maintaining Temperature 27± 2°C and Relative Humidity 65±5 % in all testing area as per IS 196:1966(C).
Abbreviation	MDL: Minimum Detection Limit, BDL: Below Detection Limit
Norms** is Specified	National Ambient Air Quality Standards (NAAQS), 2009.
Remark	Sample Comply with prescribed specification.

Tested By:Akanksha Sourabh

Sample Drawn By:Siddharth Kumar & Team

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6. In case of feedbacky complaints, please send an email at dom immediating communications.

On the basis of Quality Checked and Technical data ventiled by the Authorized signatory, the report is exceed by the Demotro of the Companyation.

is esseed by the Descript of the Organization & Modil Heights, Opp. All India Radio Str.

(Taugeer Ahmad

Technical Manager Director

Page 2 of 2

Laboratory Site - H.No. - A-13, Saket Vihar, Near Sohrai Bhawan, Harmu Housing Colony, Ranchi-83400/2, Ynarkhand, Yndia

Ph - 8407804253, 8407804251, Email - iem2012@rediffmail.com





Test Report

ULR No.:	T	C	1	5	2	9	2	2	5	0	0	0	0	0	0	5	0	8
Discipline: Ch	emical	- 31 - 13			G	roup:	Atmo	spher	ic Pol	ution		5	ub-Gr	oup: /	Amble	nt Air		
Report Issue	Date: 10	0-03-20	25					Te	st Re	port	No.: R	N-241	10500	SA3				
Sample ID:25	0307AP0	07003						Sa	mple	Desc	riptio	n: Am	blent	Air				
Challan No./F	.O. No.:	45480	43346	/237				C	hallan	No./	P.No	Date	05-1	1-202	4			
Plo	No IVI	4-7(P)4	, Bok	aro Ir	ndust	rial A	rea B	alidih		Ceme	nt (Bi	arat)	Limite	bd				
Plo Bok	No IVIA	A-7(P)4 el City,	, Bok	aro Ir	ndust	rial A	rea B	alidih d Indi					*********		Varm			
Plo Bok Type of Indus	No IV// aro Ste try: Cen	A-7(P)4 el City, nent	, Bok Boka	aro Ir	ndust	rial A	rea B	alidih d Indi	uston	ner R	epres	entati	va: Sa	njeev	Verm			
Plo Bok Type of Indus Sample Draw	No IVII aro Ste try: Cen n by: IE	A-7(P)4 el City, nent M Tear	, Bok Boka m	aro Ir iro-82	27014	rial A	rea E	alidih d Indi	uston impli	ner R	epres	entati	va: Sa	njeev	Verm -2025			
Plo Bok	No IV// aro Ste try: Cen n by: IE B Guide	A-7(P)4 el City, nent M Tear line(NA	, Bok Boka m AQM:	aro Ir iro-8:	27014 27012	rial A Jhar -13) 8	rea Erkhan	alidih d Indi	uston impli	ner R	epres	entati	va: Sa	njeev				
Plo Bok Type of Indus Sample Draw Protocol: CPC	t No IV// aro Steetry: Cem in by: IE B Guide atlon:Kh	A-7(P)4 el City, nent M Tear line(NA utri Vill	m AQM: lage (f	s/36/ Near	27014 27014 2012 Kali M	Jhar 13) 8 1andir	rea Brkhan	d Indi C Sa ethod	uston implii 5182	ner R ng Da Serie	epres	entati -03-20	ve: 5a 125 to	onjeev 07-03		G.	o SE	

-Test Results-

SI. No.	Parameters	Test Method No.	Unit	Norms as per NAAQS - 2009	Results
1.	Particulate Matter (PM ₁₀)	IS 5182 Part 23:2006	µg/m³	100	58.0
2.	Particulate Matter (PM _{2.5})	IS 5182 Part 24:2019	µg/m³	60	32.1
3.	Sulphur Dioxide (SO ₂)	IS 5182 Part-02	µg/m³	80	16.8
4.	Nitrogen Dioxide (NO ₂)	IS 5182 Part-06	µg/m³	80	32.3
5.	Ammonia (NH ₃)	IS 5182 Part 25	µg/m³	400	12.4
6.	Ozone (O ₃)	IS 5182 Part 09	µg/m³	100	15.2
7.	Arsenic (as As)	USEPA I.O. 3.2	ng/m³		BDL (MDL-2)
8.	Lead (as Pb)	IS 5182 Part 22	µg/m³	1.0	0.04
9.	Nickel (as Ni)	IS 5182 Part 26	ng/m³		BDL (MDL-4)

---End of Report---

Env.Condition of Lab.	Laboratory is maintaining Temperature 27± 2°C and Relative Humidity 65±5 % in all testing area as per IS 196:1966(C).
Abbreviation	MDL: Minimum Detection Limit, BDL: Below Detection Limit
Limit is Specified	As per the Environmental (Protection) Rule – 1986
Remark	Sample Comply with prescribed specification.

Tested By: Akanksha Sourabh

Sample Drawn By:Siddharth Kumar & Team

Specific Contractual Notes	Reviewed by Authorized Signatory
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Total kackety of Institute for Environmental Management will be landed to invoiced amount only. In case of feedback/ complaints, please send an email at dom emeco/fromal com	(Taugeer Ahmad) (Dr. S. C. Jain)
On the basis of Quality Checked and Technical data ventiled by the Authorized signatory, the report is issued by the Director of the Organization.	Technical Manager * Rends Director

Page 1 of 2

Corporate office - A-8, Modi Heights, Opp.-All India Radio Station, Ratu Road, Ranchi, Jharkhand - 834001

Laboratory Site - H.No. - A-13, Saket Vihar, Near Sohrai Bhawan, Harmu Housing Colony, Ranchi-834002, Jharkhand, India Ph - 8407804253, 8407804251, Email - lem2012@rediffmail.com





Test Report

Discipline: Chemical	Group: Atm	ospheric Pollution	Sub-Group: Ambient Air
Report Issue Date: 10-03-2025		Test Report N	o.: RN-241105005A3
Sample ID:250307AP07003		Sample Descr	iption: Ambient Air
Challan No./P.O. No.: 4548043346	/237	Challan No./	P.No. Date: 05-11-2024
Plot No IV/A-7(P)4, Boka Bokaro Steel City, Boka	ro Industrial Area E ro-827014 Jharkhar	d India	presentative: Sanjeev Verma
Type of Industry: Cement		Customer Re	
Type of Industry: Cement Sample Drawn by: IEM Team			e: 06-03-2025 to 07-03-2025
Sample Drawn by: IEM Team	/36/2012-13) & IS M	Sampling Dat	e: 06-03-2025 to 07-03-2025
the state of the s	the second secon	Sampling Dat	e: 06-03-2025 to 07-03-2025
Sample Drawn by: IEM Team Protocol: CPCB Guideline(NAAQMS	lear Kali Mandir)	Sampling Dat ethod 5182 Series	e: 06-03-2025 to 07-03-2025

-Test Results---

SI. No.	Parameters	Test Method No.	Unit	Norms as per NAAQS - 2009	Results
10.	Benzo (a) Pyrene (BaP) Particulate phase only	IS 5182 Part 12	ng/m³	M -	BDL (MDL-0.18)
11.	Carbon Monoxide (CO)	IEM/SOP/Air-01:2022	mg/m³	-	BDL(MDL-1.8)
12.	BENZENE (CoHo)	IS 5182 Part 11	µg/m³	_	BDL (MDL-0.06)

-End of Report-

Env.Condition of Lab.	Laboratory is maintaining Temperature 27± 2°C and Relative Humidity 65±5 % in all testing area as per IS 196:1966(C).
Abbreviation	MDL: Minimum Detection Limit, BDL: Below Detection Limit
Norms** is Specified	National Ambient Air Quality Standards (NAAQS), 2009.
Remark .	Sample Comply with prescribed specification.

Tested By: Akanksha Sourabh

Sample Drawn By: Siddharth Kumar & Team

Specific Contractual Notes:
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5. Total lability of institute for Environmental Management will be limited to throcaed amount only.

6. In case of feedback/ complaints, please send an email at don-emerci@comail.com

On the basis of Quality Checked and Technical data venified by the Authorized signatory, the report

Technical Manager is assed by the Departer of the Ospanization R. Madi Heights, Opp. All India Radio St.

> Laboratory Site - H.No. - A-13, Saket Vihar, Near Sohrai Bhawan, Harmu Housing Colony, Ranchi-834002, Jharkhand, India

Ph - 8407804253, 8407804251, Email - iem2012@rediffmail.com

thorized Signatory

Director

Page 2 of 2





Test Report

ULR No.:	T	C	1	5	2	9	2	2	5	0	0	0	0	0	0	5	0	9
Discipline: Ch	emical	ili -			G	roup:	Atmo	spher	ic Pol	lution	0	S	ub-Gr	oup: /	Ambie	nt Air	111	27
Report Issue	Date: 10	-03-2	025		YII	772		Te	est Re	port !	No.: R	N-241	10500	5A4				
Sample ID:25	0307APC	7004						Si	ample	Desc	riptio	n: Am	bient	Air				
Challan No./F	.O. No.:	4548	04334	6/237				C	hallar	No./	P.No.	Date:	05-1	1-202	4			
Plo	No IV/A	1-7(P)	4, Bol	karo I	ndus	trial A	rea B	alidih	pintras. L	Cemer	nt (Bh	arat)	Limite	be				
Plo Bok	No IVIA	I-7(P)	4, Bol	karo I	ndus	trial A	rea B	alidih d Indi		.007 (00.000.)	11	~~~~	2000	100	Verm	13		
Plot Bok Type of Indus	No IVIA aro Stee try: Cem	I-7(P) of City ent	4, Bol	karo I	ndus	trial A	rea B	alidih d Indi C	a ustor	ner R	epres	entati	ve: Sa	njeev			_	
Plot Bok Type of Indus Sample Draw	no IV/A aro Stee try: Cem n by: IE	I-7(P) of City ent M Te	4, Bol y, Bok am	karo I aro-8	ndus 2701	trial A 4 Jhan	rea B khan	alidih d Indi C	a ustor	ner Re	epres	entati	ve: Sa	njeev				
Plot Bok Type of Indus Sample Draw Protocol: CPC	No IVIA aro Ster try: Cem n by: IE B Guidel	ine(N	4, Bol y, Bok am AAQN	karo I aro-8	2701 2701 /2012	trial A 4 Jhan -13) 8	rea B khan	alidih d Indi C	a ustor	ner Re	epres	entati	ve: Sa	njeev				
Plot Bok Type of Indus	No IV/A aro Stee try: Cem in by: IE B Guidel ation: BC	M Tei ine(N	4, Bol y, Bok am AAQN Near	karo I aro-8 1S/36/ Projec	27012 (2012 et Off	trial A 4 Jhan -13) 8 ice)	rea B khan	lalidih d Indi C Si ethod	a ustor ampli 5182	ner Reng Dat	epres	entati -03-20	ve: Sa 025 to	onjeev 07-03		5	o SE	

-Test Results-

SI. No.	Parameters	Test Method No.	Unit	Norms as per NAAQS - 2009	Results
1.	Particulate Matter (PM ₁₀)	IS 5182 Part 23:2006	µg/m³	100	57.1
2.	Particulate Matter (PM _{2.5})	IS 5182 Part 24:2019	µg/m³	60	28.6
3.	Sulphur Dioxide (SO ₂)	IS 5182 Part-02	µg/m³	80	14.4
4.	Nitrogen Dioxide (NO ₂)	IS 5182 Part-06	µg/m³	80	27.1
5.	Ammonia (NH ₃)	IS 5182 Part 25	µg/m³	400	24.2
6.	Ozone (O ₃)	IS 5182 Part 09	pg/m³	100	18.0
7.	Arsenic (as As)	USEPA I.O. 3.2	ng/m³		BDL (MDL-2)
8.	Lead (as Pb)	IS 5182 Part 22	µg/m³	1.0	0.05
9.	Nickel (as Ni)	IS 5182 Part 26	ng/m³		BDL (MDL-4)

--- End of Report---

Env.Condition of Lab.	Laboratory is maintaining Temperature 27± 2°C and Relative Humidity 65±5 % in all testing area as per IS 196:1966(C).
Abbreviation	MDL: Minimum Detection Limit, BDL: Below Detection Limit
Limit is Specified	As per the Environmental (Protection) Rule - 1986
Remark	Sample Comply with prescribed specification.

Tested By:Akanksha Sourabh

Sample Drawn By: Siddharth Kumar & Team .

Specific Contractual Notes: -	Reviewed by Attorized Signatory
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Total liability of Institute for Environmental Management will be limited to invoiced amount only. In case of feedback/ complaints, please send an email at gon iemeco@omail.com	(Taugeer Ahmati) (Br//S. C. Jain)
On the basis of Quality Checked and Technical data verified by the Authorized signatory, the report is issued by the Director of the Organization.	Technical Manage Auxt Director

Page 1 of 2





Test Report

scipline: Chemical Group: Atmosp		nospheric Pollutio	Sub-	Group: Ambient Air
Report Issue Date: 10-03-2025	Test Report	Test Report No.: RN-241105005A4		
Sample ID:250307AP07004		Sample Des	cription: Ambie	nt Air
Challan No./P.O. No.: 4548043346	/237	Challan No.	/ P.No. Date: 05	i-11-2024
Plot No IV/A-7/PM Boks	ero Industrial Area	Balidib		
Plot No IV/A-7(P)4, Boka Bokaro Steel City, Boka		nd India	enresentative:	Sanieev Verma
Bokaro Steel City, Boka Type of Industry: Cement		Customer f		Sanjeev Verma to 07-03-2025
Bokaro Steel City, Boka Type of Industry: Cement Sample Drawn by: IEM Team	ro-827014 Jharkha	Customer F	ate: 06-03-2025	The state of the s
Bokaro Steel City, Boka Type of Industry: Cement	ro-827014 Jharkha 5/36/2012-13) & IS I	Customer F	ate: 06-03-2025	The state of the s
Bokaro Steel City, Boka Type of Industry: Cement Sample Drawn by: IEM Team Protocol: CPCB Guideline(NAAQMS	ro-827014 Jharkha i/36/2012-13) & IS P roject Office)	Customer F Sampling D Method 5182 Serie	ate: 06-03-2025	The state of the s

--- Test Results---

SI. No.	Parameters	Test Method No.	- Unit	Norms as per NAAQS - 2009	Results
10.	Benzo (a) Pyrene (BaP) Particulate phase only	IS 5182 Part 12	ng/m³	3. -	BDL (MDL-0.18)
11.	Carbon Monoxide (CO)	IEM/SOP/Air-01:2022	mg/m³	_	BDL(MDL-1.8)
12.	BENZENE (C ₆ H ₆₎	IS 5182 Part 11	µg/m³	-	BDL (MDL- 0.06)

---End of Report---

Env.Condition of Lab.	Laboratory is maintaining Temperature 27± 2°C and Relative Humidity 65±5 % in all testing area as per IS 196:1966(C).
Abbreviation	MDL: Minimum Detection Limit, BDL: Below Detection Limit
Norms** is Specified	National Ambient Air Quality Standards (NAAQS), 2009.
Remark	Sample Comply with prescribed specification.

Tested By:Akanksha Sourabh

Sample Drawn By:Siddharth Kumar & Team

Specific Contractual Notes -	Reviewed by Authorized Signatory
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5 In case of feedback/ complaints, please send an email at dom remeco@gmail.com	(Taugeer Ahmad), (Dr/S. C. Jain) :.
On the base of Quality Checked and Technical data verified by the Authorized signatory, the report is esseed by the Descript of the Descriptions, a Nacrall Maniphita, Oppout All Lindian Rudio Stution	Jechnical Manage + Director

Page 2 of 2

Laboratory Site - H.No. - A-13, Saket Vihar, Near Sohrai Bhawan, Harmu Housing Colony, Ranchi-834002, Jharkhand, India

Annexure-X

LIST OF POLLUTION CONTROL EQUIPMENTS (BAG FILTERS)

	BOKARO CEMENT MANUFACTURING WORKS, (A unit of DALMIA CEMENT BHARAT LIMITED)						
	ы	LIST OF P	OLLUTION CO	NTROL EQUIP	MENTS	. 20	
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 Nuisan	ce Dust Coll	ectors		
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	ТТ-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
12	563 BF1	Cement Mill BE feed/ Reject	Cement	10	12500	14375	≤ 30

BOKARO CEMENT MANUFACTURING WORKS,

(A unit of DALMIA CEMENT BHARAT LIMITED)

		137017	OLLUTION CONTROL EQUIPMENTS			1 1	0 11 1 1 1
S. No.	Location	Description	Application	Design dust Emission (mg/Nm3)	Volume of bag filter (m3/h)	Fan Volume	Outlet dust Emission (mg/Nm3)
		Material					
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
30	646BF2	Packing Plant	Cement	10	35000	40250	≤ 30

			O CEMENT MAN				
		LI:	ST OF POLLUTION CO	NTROL EQUIP	MENTS		
S. No.	Location	Description	Application	Design dust Emission (mg/Nm3)	Volume of bag filter (m3/h)	Fan Volume	Outlet dust Emission (mg/Nm3)
31	647BF2	Packing Plant	Cement	10	35000	40250	≤ 30









Annexure-XI

Compliance of CREP Conditions

BOKARO CEMENT MANUFACTURING WORKS

S.No.	CREP Conditions	Compliance
1	Cement plants/Standalone grinding units, which are not complying* with notified standards, shall do the following to meet the standards: • Augmentation of existing air pollution control devices- by July 2003 • Replacement of existing air pollution control devices- by July 2004	M/s. Bokaro Cement Manufacturing Works (Unit of DCBL) will comply with all the Stipulated standards given by MoEF CC/JSPCB. Company has installed of bag filter as air pollution control device (APCD) in plant to comply the notified standards. Regular monitoring of ambient air quality is also being/ will be practiced.
2	Cement plants/Standalone grinding units located in critically polluted or urban areas (including 5 km distance outside under urban boundary) will meet 100 mg/Nm3 limit of particulate matter by December 2004 and continue working to reduce the emission of particulate matter to 50 mg/Nm3. As per Gazette Notification MoEFCC G.S.R.497(E) dated 10th May, 2016, emission standards for PM have been prescribed as 30 mg/Nm3.	Neither the plant is located in Critically Polluted area nor in Urban areas. Plant is located in industrial area. All mesures will be undertaken to keep emission level of PM below the permission limit. The major source of air pollution (i.e. Cement mill) will be provided with Bag House. Bag Filters and dedusting/nuisance filters will be installed in Packing Plant and all material transfer points.
3	The new cement kilns to be accorded NOC/ Environmental clearance w.e.f. 01.04.2003 will meet the limit of 50 mg/Nm3.	Unit is Stand-alone Grinding Unit only and will comply with new emission norms.
4	CPCB will evolve load-based standards by December 2003.	This is a Stand-alone grinding unit; Load based standards issued by the MoEF CC is for Kiln only for clincker isation. Hence, this condition is not applicable.
5	CPCB and NCBM will evolve SO2 and NOx emission standards by June 2004	Unit is Stand-alone Grinding Unit only and there will not be SO2 and NOx emission during manufacturing process; this condition is not applicable.
6	The Cement industry will control fugitive emission from all the raw materials and products storage and transfer points by December 2003. However, the feasibility for	Unit is Stand-alone Grinding Unit only and there will not be SO2 and NOx emission during manufacturing process;

	the control of fugitive emission from limestone and coal storage area will be decided by the National Task Force (NTF) The NTF shall submit its recommendations within three months.	this condition is not applicable. To control the fugitive emissions the following measures are adopted/proposed: • All measures to control emission from construction activities such • as covering of construction site, water sprinkling & covering of construction material etc. are being adopted at site. • All the conveyors will be covered with conveyer covers and hoods to offset any trapping of material in wind stream. • Storage of raw material/cement in storage shed and Silos. • Concreted internal roads and The sprinkling of water will be done all along internal roads in the plant in order to control the dust arising due to the movement of vehicular traffic. • Thick green belt is being developed around the plant to arrests the fugitive emissions. • Plugging of all leakage and enclosing storage and material handling systems.
7	CPCB, NCBM, BIS and Oil refineries will jointly prepare the policy on use of petroleum coke as fuel in cement kiln by July 2003.	Not Applicable
8	After performance evaluation of various types of continuous monitoring equipment and feedback from the industries and equipment manufacturers, NTF will decide feasible unit operations/sections for installation of continuous monitoring equipment. The industry will install the continuous monitoring system (CMS) by December 2003.	Stack and real time emission monitoring date will be transmitted to SPCB and CPCB website.
9	Tripping in kiln ESP to be minimized by July 2003 as per the recommendations of NTF.	Not Applicable; as the proposal is for Stand-alone Grinding Unit. However, high efficiency Bag House will be provided for Cement Mill
10	Industries will submit the target date to enhance the utilization of waste material by April 2003.	After expansion, GU will also utilize Fly ash along with Slag which are process waste generated by Thermal Power

		Plant and Steel industries and help them in getting rid of waste in most sustainable manner by converting into useful product i.e. Cement.
11	NCBM will carry out a study on hazardous waste utilization in cement kiln by December 2003.	Not Applicable
12	Cement industries will carry out feasibility study and submit target dates to CPCB for co-generation of power by July 2003.	Not Applicable

Annexure-XII

Ground water level report of surrounding village from October 2024 to March 2025

Location	Coordinate of Site	Distanc e from Plant site (KM)		D	epth from gro	ound (feet)	í	
		Month	Octobe r-2024,	November -2024,	December- 2024,	January -2025,	February- 2025,	March- 2025,
Pakhriatand (Near Anganwadi)	23070'5590"N 86006'2678" E	1	8'7"	9'2"	16'1"	17'9"	18'4"	19'8"
Tupkadi (Near Electric Pole)	23071'3362"N 86006'1573" E	1	8'3"	9'8"	13'3"	15'1"	16'0"	17'4"
Godawali (Near Temple)	23068'7751"N 86006'0031" E	1	2'6"	3'4"	5'2"	7'3"	8'1"	9'3"
Bhutkuru (Near primary School)	23070'4642"N 86005'1418" E	1	10'2"	11'6"	15'4"	17'7"	18'5"	19'2"

Ground water quality report of surrounding village



Institute for Environmental Management



Test Report

ULR No.:	T	C	1	5	2	9	2	2	5	0	0	0	0	0	0	5	3	1
Discipline: Cho	mical				•	Gro	up: W	ater	-		1	Su	b-Gro	up: Gr	ound V	Vater		
Report Issue C	ate: 10-0	3-2025	5							Test	Repo	rt No.	RN-24	11050	05GW	1		
Sample ID:250	307WA03	3001	-13.2							Sam	ple D	escript	ion: G	round	Water	(Dug	well)	
Challan No./P.	O. No.: 4	54804	3346/2	37						Cha	llan N	0./ P.N	lo. Dat	e: 05-	11-202	4		
	karo Cer t No IVII									emer	nt (Bh	arat)	Limite	bd				
Plo Bo	t No IVII	4-7(P) el City	4, Bo	karo I	ndust	trial A	rea B	alidih	a									
Plo Bo Type of Indust	karo Ste ry: Cemer	4-7(P) el City nt	4, Bok	karo I	ndust	trial A	rea B	alidih	C	ustom	er Re	pres	entatio		njeev \	/erma		
Plo Bo Type of Indust	karo Ste ry: Cemer	4-7(P) el City nt	4, Bok	karo I	ndust	trial A	rea B	alidih	C		er Re	pres	entatio		njeev \	/erma		
Plo Bo Type of Indust Sample Drav	t No IV// karo Ste ry: Cemer vn by: IE	4-7(P) el City nt M Tea	4, Bok y, Bok am	karo I aro-8	ndust 27014	trial A 4 Jha	rea B	alidih	C	ustom	er Re	pres	entatio		njeev \	/erma		
Plo Bo	karo Ste ry: Cemer vn by: IE Guidelin	A-7(P) el City nt M Tea	4, Bol y, Bok am Method	karo I aro-8	ndust 27014	trial A 4 Jha	rea B	alidih	C	ustom	er Re	pres	entatio		njeev \	/erma		

SI.	Tested Parameter	Unit	Method No.	Li	Results	
No.	rested Parameter	Unit	Method No.	Acceptable	Permissible	Results
1.	pH value at 25°C		IS 3025 (Part-11)	65-85	No Relaxation	7.4
2.	Turbidity	NTU	IS 3025 (Part-10)	1	5	<1
3.	Colour	Hazen	IS 3025 (Part-04)	5	15	<5
4.	Odour	****	IS 3025 (Part-05)	Agreeable	Agreeable	Agreeable
5.	Total Dissolved Solids (TDS)	mg/l	IS 3025 (Part-16)	500	2000	212
6.	Calcium (as Ca+2)	mg/l	IS 3025 (Part-40)	75	200	39.3
7.	Total Alkalınıty (as CaCO3)	mg/l	IS 3025 (Part-23)	200	600	112
8.	Total Hardness (as CaCO3)	mg/l	IS 3025 (Part-21)	200	600	146
9.	Chloride (as CI)	mg/l	IS 3025 (Part-32)	250	1000	28
10.	Free Residual Chlorine	mg/l	IS 3025 (Part-26)	0.2	1.0	BDL(MDL-0.07)
11.	Sulphate (as SO ₄ 2)	mg/l	IS 3025 (Part-24)	200	400	32 6
12.	Magnesium (as Mg+2)	mg/l	IS 3025 (Part-46)	30	100	12.2

Env.Condition of Lab.	Laboratory is maintaining Temperature 27s 2°C and Relative Humidity 65s5 % in all testing area as per 15 196:1966(C).
Abbreviation	MDL: Minimum Detection Limit, BDL: Below Detection Limit
Limit is Specified	15 10500 :2021
Remark	Sample Comply with prescribed specification.

Tested By: Yashomati Kumari Sample Drawn By: Siddharth kumar & Team

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 In case of feedback/ complaints, please send an email at dom remedo@mail.com 	(Taugeer Ahmad) (Dr. S. C. Jain)
On the basis of Quality Checked and Technical data verified by the Authorized signatory, the report is issued by the Director of the Organization.	Technical Manager Director

Page 1 of 2





BDL (MDL-1.8)

Test Report

Discipline: Chemical	Group: Water	Sub-Group: Ground Water		
Report Issue Date: 10-03-2025		Test Report No.: RN-241105005GW1		
Sample ID:250307WA03001, 250307RC03	Sample	Description: Ground Water (Dug well)		
Challan No./P.O. No.: 4548043346/237		Challan	No./ P.No. Date: 05-11-2024	
	ring Works, Unit of Dalm Industrial Area Balldih	ia Cement (Bharat) Limited	
Plot No IV/A-7(P)4, Bokaro Bokaro Steel City, Bokaro-	Industrial Area Balldih			
Plot No IV/A-7(P)4, Bokaro Bokaro Steel City, Bokaro- Type of Industry: Cement	Industrial Area Balldih	Customer	Representative: Sanjeev Verma	
Plot No IV/A-7(P)4, Bokaro Bokaro Steel City, Bokaro- Type of Industry: Cement Sample Drawn by: IEM Team	Industrial Area Balidih 827014 Jharkhand India	Customer		
Plot No IV/A-7(P)4, Bokaro	Industrial Area Balidih 827014 Jharkhand India	Customer	Representative: Sanjeev Verma	

—Test Result— Limit **Tested Parameter** Unit Method No. Results No. Acceptable Permissible APHA 4500 B 2023 2.6 13. Nitrate (as NO³) mg/l No Relaxation 0.46 14. Fluoride (as F) mg/l APHA 4500 D 2023 1.0 15 Copper mg/l APHA 3111 B 2023 0.5 1.5 BDL (MDL - 0.2) 16. Chromium APHA 3111 B 2023 0.05 No Relaxation BDL (MDL - 0.2) mg/l 17. Lead (Pb) APHA 3111 B.2023 0.01 No Relaxation BOL (MOL - 0.2) mg/I 18. Manganese (Mn) mg/l BOL (MDL - 0.2) APHA 3111 B 2023 0.01 19. Iron (Fe) APHA 3111 B.2023 1.0 No Relaxation BDL (MDL - 0.05) mg/l 20. Total Coliform MPN/100mL IS 1622: 1981 80L (MDL-1.8) Shall not be detectable in any 100

IS 1622: 1981

Env.Condition of Lab.	Laboratory is maintaining Temperature 27x 2°C and Relative Humidity 65x5 % in all testing area as per 15 196:3966(C).
Abbreviation	MDL: Minimum Detection Limit, BDL: Below Detection Limit
Limit is Specified	15 10500 :2021
Remark	Sample Comply with prescribed specification.

Tested By: Yashomati Kumari,Sanjay Kumar & Maher Fatmi Sample Drawn By: Siddharth kumar & Team

MPN/100mL

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Authorized Signatory Reviewed by

(Taugeer Ahmad)

Technical Manager

mi sample

Page 2 of 2

21. E. Coli





Test Report

ULR No.: T C 1	5 2	9	2	2	5	0	0	0	0	0	0	5	3	2
Discipline: Chemical		Gro	up: Wa	ter				Su	b-Gro	up: Gre	ound V	Vater		
Report Issue Date: 10-03-2025		-				Test Re	port f	No.: R	N-2411	05005	GW2	/2000		
Sample ID: 250307WA03002						Sample	Desc	ription	n: Grou	ind W	ater (D	ug wel	H)	
Challan No./P.O. No.: 4548043346/23	7					Challar	No./	P.No.	Date:	05-11-	2024			
Bokaro Steel City, Boka	ro-82701	4 Jha	rkhan	a Indi	•									
Type of Industry: Cement						ustom	er Re	pres	entati	ve: Sa	nieev \	/erma		-
Type of Industry: Cement Sample Drawn by: IEM Team	-11			7,000	C	ustom	-	- Company	NAME OF TAXABLE PARTY.		njeev \	/erma	_	-
The same of the sa	3025 Serie	:5	***********		C	_	-	- Company	NAME OF TAXABLE PARTY.		njeev \	/erma		
Sample Drawn by: IEM Team		:5			C	_	-	- Company	NAME OF TAXABLE PARTY.		njeev \	/erma		

SI.			—Test Result—		mit I		
No.	Tested Parameter	Unit	Method No.	Acceptable	Permissible	Results	
1.	pH value at 25°C		IS 3025 (Part-11)	6.5-8.5	No Relaxation	7.5	
2.	Turbidity	NTU	IS 3025 (Part-10)	1	5	<1	
3.	Colour	Hazen	IS 3025 (Part-04)	5	15	<5	
4.	Odour		IS 3025 (Part-05)	Agreeable	Agreeable	Agreeable	
5.	Total Dissolved Solids (TDS)	mg/l	IS 3025 (Part-16)	500	2000	180	
6.	Calcium (as Ca+2)	mg/l	IS 3025 (Part-40)	75	200	29.7	
7.	Total Alkalinity (as CaCO3)	mg/l	IS 3025 (Part-23)	200	600	82	
8.	Total Hardness (as CaCO3)	mg/l	IS 3025 (Part-21)	200	600	138	
9.	Chloride (as CI)	mg/l	IS 3025 (Part-32)	250	1000	21	
10.	Free Residual Chlorine	mg/l	IS 3025 (Part-26)	0.2	1.0	BDL(MDL-0.07)	
11.	Sulphate (as SO ₄ ²)	mg/l	IS 3025 (Part-24)	200	400	28	
12	Magnesium (as Mg+2)	mg/l	IS 3025 (Part-46)	30	100	15.6	

	END Report
Env.Condition of Lab.	Laboratory is maintaining Temperature 27s 2°C and Relative Humidity 65s5 % in all testing area as per IS 196:1966[C).
Abbreviation	MDL: Minimum Detection Limit, BDL: Below Detection Limit
Limit is Specified	15 10500 2021
Ramark	Samula Comply with prescribed specification

Tested By: Yashomati Kumari

Sample Drawn By: Siddharth kumar & Team

Specific Contractual Motes -	Reviewed by Authorized Signatory
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6. In case of feedback/ complaints, please send an email at dom emeco@omail.com	(Taugeer Ahmad) (Dr./S. C. Jain)
On the bass of Quality Checked and Technical data vented by the Authorized signatory, the report is issued by the Director of the Organization.	Technical Manager * A Director

Page 1 of 2





Test Report

iscipline: Chemical Group: Water		Sub-Group: Ground Water		
Report Issue Date: 10-03-2025	Test Report No.: RN-241105005GW2			
Sample ID: 250307WA03002, 250307RC0	Sample C	Description: Ground Water (Dug well)		
Challan No./P.O. No.: 4548043346/237	Challan N	io./ P.No. Date: 05-11-2024		
T				
Bokaro Steel City, Bokaro	Industrial Area Balidih -827014 Jharkhand India			
Bokaro Steel City, Bokaro			r Representative: Sanjeev Verma	
		Custome	r Representative: Sanjeev Verma	
Bokaro Steel City, Bokaro Type of Industry: Cement Sample Drawn by: IEM Team	-827014 Jharkhand India	Custome		
Bokaro Steel City, Bokaro Type of Industry: Cement	-827014 Jharkhand India	Custome		

			-Test Result-			7.1.2.7
SI.	Tantad Damandas	Tested Parameter Unit		U	Results	
No.	Tested Parameter	Unit	Method No.	Acceptable	Permissible	Keeuics
13.	Nitrate (as NO ³)	mg/l	APHA 4500 B.2023	45	No Relaxation	2.6
14.	Fluoride (as F)	mg/t	APHA 4500 D.2023	1.0	1.5	0.46
15.	Copper	mg/l	APHA 3111 B.2023	0.5	1.5	BDL (MDL - 0.2)
16.	Chromium	mg/l	APHA 3111 B.2023	0.05	No Relaxation	BDL (MDL - 0.2)
17.	Lead (Pb)	mg/l	APHA 3111 B 2023	0.01	No Relaxation	BDL (MDL - 0.2)
18.	Manganese (Mn)	mg/l	APHA 3111 B.2023	0.01	0.03	BDL (MDL - 0.2)
19.	Iron (Fe)	mg/l	APHA 3111 B 2023	1.0	No Relaxation	BDL (MDL - 0.05)
20.	Total Coliform	MPN/100mL	IS 1622: 1981	Shall not be detectable in any 100 ml sample		BDL (MDL-1.8)
21.	E. Coli	MPN/100mL	IS 1622: 1981	mus	ampie	BDL (MDL-1.8)

Env.Condition of Lab.	Laboratory is maintaining Temperature 271 2°C and Relative Humidity 6515 % in all testing area as per IS 196:1966(C).
Abbreviation	MDL: Minimum Detection Limit, BDL: Below Detection Limit
Limit is Specified	15 10500 : 2021
Remark	Sample Comply with prescribed specification.

Tested By: Yashomati Kumari,Sanjay Kumar & Maher Falmi Sample Drawn By: Siddharth kumar & Team

Specific Contractual Notes -	Reviewed by	Authorized Signatory
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6. In case of feedback/ complants, please send an email at jorn emeco@gmail.com	(Taugeer Ahmad)	(Dr/S. C. Jain)
On the basis of Quality Checked and Technical data verified by the Authorized signatory, the report is issued by the Director of the Organization.	Technical Manager	Director

Page 2 of 2

Annexure-XIII

BOKARO CEMENT MANUFACTURING WORKS (Unit OF DALMIA CEMENT (BHARAT) LIMITED)

STP Outlet water quality analysis report from October 2024 to March 2025

		00000	Suspended	COD	BOD	Oil &
Sr. No	Parameter	PH	solids mg/lit	mg/lit	mg/lit	Grease mg/lit.
	Norms	5.5-9.0	100	250	30	10
1	October-2024.	7.1	16	44	13.4	BDL
2	November-2024.	7.8	14	40	14.1	BDL
3	December-2024.	7.7	19	56	15.6	BDL
4	January-2025.	7.6	18	52	13.2	BDL
5	February-2025.	7.7	15	60	12.9	BDL
6	March-2025.	7.4	16	64	19.5	BDL
	Min.	7.1	14	40	12.9	0
	Max.	7.8	19	64	19.5	0
	Avg.	7.5	16	53	15.1	0.0

BOKARO CEMENT MANUFACTURING WORKS

(Unit OF DALMIA CEMENT (BHARAT) LIMITED)

STP Inlet water analysis report



SI. No.

Institute for Environmental Management



34.3

Test Report

ULR No.:	T	C	1	5	2	9	2	2	5	0	0	Т	0	0	0	0	5	3	9
Discipline: Ch	nemical			G	roup:	Pollu	tion &	Envir	onme	nt	-		Sul	-Gro	up: V	Vaste	Wate	r	-
5Report Issue	e Date: 1	0-03-2	2025	7.7.	- XX-				Te	st Rep	ort N	lo.:	RN-	2411	05005	5WW0	01		
Sample ID: 2	50307PE	04001	1						Sar	mple	Desci	ipt	ion:	Wast	te Wa	ter (S	TP)		
Challan No./	P.O. No.:	4548	04334	6/237					Ch	allan	No./	P.N	o. D	ate:	05-11	-2024			
									imia C	Ceme	nt (B	har	at) L	imite	be				.00
Pi Bo	ot No IV	A-7(P)4, B	okaro	Indu	strial	Area	Balid d Ind	ih ia		2570		8			v Ven	ma		*
PI	ot No IV karo Ste stry: Cen	A-7(P el City nent)4, Bo	okaro	Indu	strial	Area	Balid d Ind	ih ia Custo	mer F	Repre	8-8	ntat	ive: S		v Ver	ma		*:
Pi Bo Type of Indu	ot No IV/ karo Ste stry: Cen in by: IEI	A-7(P el City nent M Tea)4, Bol , Bol m	okaro karo-8	Indu	strial 4 Jha	Area rkhar	Balid d Ind	ih ia	mer F	Repre	8-8	ntat	ive: S		v Ver	ma		쵠
Pi Boi Type of Indu Sample Draw	ot No IV/ karo Ste stry: Cen in by: IEI IB Guide	A-7(Pel City nent M Tea line &)4, Bo , Bol m IS Me	okaro karo-8	Indu	strial 4 Jha	Area rkhar	Balid d Ind	ih ia Custo	mer F	Repre	8-8	ntat	ive: S		v Ver	ma		*

IS 3025 (Part-44)

IS 3025 (Part-58)

End of Report					
Env.Condition of Lab.	Laboratory is maintaining Temperature 27± 2°C and Relative Humidity 65±5 % in all testing area as per 15 196:1966(C).				
Abbreviation	MDL: Minimum Detection Limit, BDL: Below Detection Limit				
Norms" is Specified	As per the Environmental (Protection) Rule - 1986				
Remark	Sample Comply with prescribed specification.				

mg/l

mg/l

Tested By: Yashomati Kumari

Sample Drawn By: Siddharth kumar & team

pH value at 25°C

Tested Parameters

Biochemical Oxygen Demand (BOD)

Chemical Oxygen Demand (COD)

Total Suspended Solids (TSS)

Specific Contractual Notes -	Reviewed by Authorized Signatory
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6. In case of feedback/ complaints, please send an arrial at dom iemeco@omail.com	(Taugeer Ahmad) \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
On the basis of Quality Checked and Technical data verified by the Authorized signalory, the report is issued by the Director of the Organization.	Technical Manager . Director

Corporate office - A-8, Modi Heights, Opp.-All India Radio Station, Ratu Road, Ranchi, Jharkhand - 834001

Laboratory Site - H.No. – A-13, Saket Vihar, Near Sohral Bhawan, Harmu Housing Colony, Ranchi-834002, Jharkhand, India

Ph - 8407804253, 8407804251, Email - lem2012@rediffmail.com





Test Report

Discipline: Chemical	Gr	oup: Pollution & Environme	ent	Sub-Group: Waste Water	
Report Issue Date: 10-03-2025		Te	Test Report No.: RN-241105005WW01		
Sample ID: 250307PE04001	Sa	mple Des	cription: Waste Water (STP)		
Challan No./P.O. No.: 45480	Ch	allan No.	/ P.No. Date: 05-11-2024		
		ing Works, Unit of Dalmia (Industrial Area Balidih	Cament (Bharat) Limited	
Plot No IV/A-7(P) Bokaro Steel City	4, Bokaro	Industrial Area Balidih 27014 Jharkhand India	V - 1	ACT TO SERVE THE	
Plot No IV/A-7(P) Bokaro Steel City Type of Industry: Cement	4, Bokaro , Bokaro-8	Industrial Area Balidih 27014 Jharkhand India Custo	omer Rep	resentative: Sanjeev Verma 07-03-2025	
Plot No IV/A-7(P) Bokaro Steel City Type of Industry: Cement Sample Drawn by: IEM Team	4, Bokaro , Bokaro-8 n	Industrial Area Balidih 27014 Jharkhand India Custo Samp	omer Rep	resentative: Sanjeev Verma	
Plot No IV/A-7(P)	4, Bokaro , Bokaro-8. n IS Method 3	Industrial Area Balidih 27014 Jharkhand India Custo Samp	omer Rep	resentative: Sanjeev Verma	

--- Test Result---

SI. No.	Tested Parameters	Unit	Method No.	Norms**	Results
5.	Oil & Grease	mg/l	IS 3025 (Part-39)	·	8DL(MDL 4.0)

Env.Condition of Lab.	Laboratory is maintaining Temperature 27± 2°C and Relative Humidity 65±5 % in all testing area as per IS 196:1966(C).
Abbreviation	MDL: Minimum Detection Limit, BDL: Below Detection Limit
Norms** is Specified	••
Remark	

Tested By: Yashomati Kumari

Sample Drawn By: Siddharth kumar & team

Reviewed by	Authorized Signatory
T. Almad	
(Taugeer Ahmad) 3	7 (Dr. S/ C. Jain)
Technical Manager	• Director
	T. Almad (Taugeer Ahmad)

Page 2 of 2

STP Outlet water quality analysis report



Institute for Environmental Management



Test Report

ULR No.:	T	C	1	5	2	9	2	2	5	0	0	0	0	0	0	5	4	0
Discipline: C	nemical	1,		G	roup:	Pollu	tion &	Envir	onme	nt		Su	b-Gro	up: V	Vaste	Wate	-	
Report Issue	Date: 10	-03-20	025						Te	st Rep	ort N	o.: AN	-2411	05005	SWW	12		
Sample ID: 2	50307PE	04002	2						Sai	mple	Descri	ption	: Was	te Wa	ter (S	TP)		
Challan No./	P.O. No.:	4548	04334	6/237					Ch	allan	No./P	No.	Date:	05-11	-2024			
			14. Bo	karo	Indus	strial	Area			Cem	400		-0.00					
	okaro St						Area arkha	Balld	h	-2-700	37.540			100000				
	okaro St	eel C						Balld nd In	h dia		Repres	senta	-1000	100000	v Ver	ma		
B Type of Indu	okaro St stry: Cen	nent	ty, Bo					Balid nd In	h dia Custo	mer F	20020		tive: S	100000	v Ver	ma		
B Type of Indu	okaro St stry: Cen vn by: IEI	eel Ci nent M Tea	ty, Bo	karo	8270	14 Jh	arkha	Balid nd In	h dia Custo	mer F	Repres		tive: S	100000	v Ver	ma		
B Type of Indu Sample Drav	okaro St stry: Cen vn by: IEI CB Guide	nent M Tea line &	m IS Me	thod	3025	14 Jh	arkha	Balid nd In	h dia Custo	mer F	Repres		tive: S	100000	v Ver	ma		

		102(1	resurt		
SI. No.	Tested Parameters	Unit	Method No.	Norms**	Results
1.	pH value at 25°C		IS 3025 (Part-11)	5.5 to 9.0	7.4
2.	Total Suspended Solids (TSS)	mg/l	IS 3025 (Part-17)	100	16
3.	Biochemical Oxygen Demand (BOD)	mg/l	IS 3025 (Part-44)	30	19.5
4.	Chemical Oxygen Demand (COD)	mg/l	IS 3025 (Part-58)	250	64

Env.Condition of Lab.	Laboratory is maintaining Temperature 27± 2°C and Relative Humidity 65±5 % in all testing area as per IS 196:1966(C).
Abbreviation	MDL: Minimum Detection Limit, BDL: Below Detection Limit
Norms" is Specified	As per the Environmental (Protection) Rule - 1986
Remark	Sample Comply with prescribed specification.

Tested By: Yashomati Kuman Sample Drawn By: Siddharth kumar & team

Specific Contractual Notes: +	Reviewed by Authorized Signatory
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Total liability of institute for Environmental Management will be limited to invoiced amount only. In case of leedback/ complaints, please send an email at dom emego(figment com.)	(Taugeer Ahmad) (Dr. S. C. Jain)
On the basis of Quality Checked and Technical data verified by the Authorized signatory, the report is issued by the Director of the Organization.	Technical Manager

Corporate office - A-8, Modi Heights, Opp.-All India Radio Station, Ratu Road, Ranchi, Jharkhand - 834001

Laboratory Site - H.No. - A-13, Saket Vihar, Near Sohrai Bhawan, Harmu Housing Colony, Ranchi-834002, Jharkhand, India Ph - 8407804253, 8407804251, Email - lem2012@rediffmail.com





Test Report

Discipline: Chemical	Gr	oup: Pollution & Environment	Sub-Group: Waste Wate	
Report Issue Date: 10-03-2	ue Date: 10-03-2025		Test Report No.: RN-241105005WW02	
Sample ID: 250307PE0400	2	Sample I	escription: Waste Water (STP)	
Challan No./P.O. No.: 4548	043346/237	Challan f	io./ P.No. Date: 05-11-2024	
		ring Works, Unit of Dalmia Ceme	nt (Bharat) Limited	
Plot No IV/A-7(F Bokaro Steel C)4, Bokaro	Industrial Area Balidih 827014 Jharkhand India	00°	
Plot No IV/A-7(F Bokaro Steel C Type of Industry: Cement)4, Bokaro ity, Bokaro-	Industrial Area Balidih 827014 Jharkhand India Customer R	epresentative: Sanjeev Verma	
Plot No IV/A-7(F Bokaro Steel C)4, Bokaro ity, Bokaro- m	Industrial Area Balidih 827014 Jharkhand India Customer R Sampling Da	00°	
Plot No IV/A-7(F Bokaro Steel C Type of Industry: Cement Sample Drawn by: IEM Tea	y)4, Bokaro ity, Bokaro im IS Method	Industrial Area Balidih 827014 Jharkhand India Customer R Sampling Da 3025 Series	epresentative: Sanjeev Verma	

	SI. No.	Tested Parameters	Unit	Method No.	Norms**	Results
5. Oil & Grease mg/l IS 3025 (Part-39) 10	5.	Oil & Grease	mg/l	IS 3025 (Part-39)	10	BDL(MDL 4.0)

Env.Condition of Lab.	Laboratory is maintaining Temperature 27± 2°C and Relative Humidity 65±5 % in all testing area as per is 196:1966(C).
Abbreviation	MDL: Minimum Detection Limit, BDL: Below Detection Limit
Norms** is Specified	As per the Environmental (Protection) Rule - 1986
Remark	Sample Comply with prescribed specification.

Tested By: Yashomati Kumari

Sample Drawn By: Siddharth kumar & team

	 Authorized Signatory
T. Almad	
Taugeer Ahmad)	(Dr. S. C. Jain)
echnical Manager	Parette Director
۱	7.0

Page 2 of 2

BOKARO CEMENT MANUFACTURING WORKS (Unit OF DALMIA CEMENT (BHARAT) LIMITED)

RAIN WATER HARVESTING SYSTEM

Designing Details

Roof top Rain Water Harvesting System implemented in Bokaro Cement Manufacturing Works (Unit of DCBL). Rain Water Harvesting System implemented near Raw Material Handling Stacker reclaimer, Cement Mill, Project Office, Gate Complex and Packing Plant Building in our plant. Rain water collected from roof top through gutter and carrying by pipe lines in recharge tranches. 5 Nos Recharge Pits are also connected with recharge trenches. In plant area depth of ground water level is varying between 3 to 5 meter and no hard rock strata are available above ground water level. 2 Nos of water collection tank also constructed for collection of rain water and same rain water will be used in green belt development and dust suppression. Rain water easily percolated and recharges in ground water level. Rain water harvesting system structure constructed as per Technical approval from Ground Water Directorate, Water Resource Department Govt of Jharkhand vide letter no GWD/260/2023/180/Ranchi Dated 18.05.2023. All Rain Water Harvesting Structure Photographs attached for your information:



Display board at the factory main gate "This Premises has Elaborate Rain Water Harvesting Facility"



Rain water harvesting recharge pit near Packing plant



Rooftop Rain water collection pipe line, concreated drain connected to recharge pit near Packing plant building



Rain water harvesting recharge pit near Electrical load center



Rooftop Rain water collection pipe line, concreated drain connected to recharge pit near Electrical load center



Rain Water Recharge Pit with connecting drain near stacker reclaimer



Rain Water Recharge Pit with connecting drain near stacker reclaimer



Rain Water Recharge Pit with connecting drain near mill area



Connecting drain to Rain water Harvesting recharge pit nearstacker reclaimer



Rain Water collection Pond constructed Capacity: 925 KL



Rain water / Water collection tank constructed of capacity :400 KL

BOKARO CEMENT MANUFACTURING WORKS

(Unit OF DALMIA CEMENT (BHARAT) LIMITED)

Water Flow meter installed at the main gate of the factory



Annexure-XVI

BOKARO CEMENT MANUFACTURING WORKS (UNIT OF DCBL)

Noise Level report from October 2024 to March 2025

		Near Pro	ject office (BCM)	W)			
	1	Day Time dB(A)	Nigl	Night Time dB(A)		
	Min.	Max.	Avg.	Min.	Max.	Avg.	
October-2024.	54.6	57.4	56.0	42.7	46.9	44.8	
November-2024.	49.1	52.9	51.0	47.1	49.3	48.2	
December-2024.	53.3	55.3	54.3	46.4	48.4	47.4	
January-2025.	46.4	56.9	51.7	47.3	51.2	49.3	
February-2025.	47.6	53.3	50.5	45.2	46.3	45.8	
March-2025.	48.7	54.8	51.8	44.9	49.8	47.4	
Min.	46.4	52.9	50.5	42.7	46.3	44.8	
Max.	54.6	57.4	56.0	47.3	51.2	49.3	
Avg.	50.0	55.1	52.5	45.6	48.7	47.1	

	Т	hakur Tand	Village (Near Aga	anwadi)			
	l l	Day Time dB	(A)	Nig	Night Time dB(A)		
	Min.	Max.	Avg.	Min.	Max.	Avg.	
October-2024.	44.7	45.6	45.2	41.7	40.7	41.2	
November-2024.	43.5	47.9	45.7	38.3	39.4	38.9	
December-2024.	47.3	49.7	48.5	40.2	42.6	41.4	
January-2025.	46.8	47.3	47.1	43,3	46.7	45.0	
February-2025.	47.3	48.8	48.1	42.6	43.5	43.1	
March-2025.	45.4	48.4	46.9	44.3	45.7	45.0	
Min.	43.5	45.6	45.2	38.3	39.4	38.9	
Max.	47.3	49.7	48.5	44.3	46.7	45.0	
Avg.	45.8	48.0	46.9	41.7	43.1	42.4	

BOKARO CEMENT MANUFACTURING WORKS (UNIT OF DCBL)

Noise Level report from October 2024 to March 2025

	Ne	ar Gorabali	village (Near Te	emple)		
		ay Time dB(Nig	A)		
	Min.	Max.	Avg.	Min.	Max.	Avg.
October-2024.	42.6	43.8	43.2	37.9	42.7	40.3
November-2024.	40.2	44.3	42.3	38.1	41.4	39.8
December-2024.	42.7	43.4	43.1	37.7	42.7	40.2
January-2025.	42.1	45.8	44.0	40.1	43.9	42.0
February-2025.	40.3	43.3	41.8	39.5	41.7	40.6
March-2025.	41.8	44.2	43.0	38.3	43.8	41.1
Min.	40.2	43.3	41.8	37.7	41.4	39.8
Max.	42.7	45.8	44.0	40.1	43.9	42.0
Avg.	41.6	44.1	42.9	38.6	42.7	40.7

	Ne	ar Khuturi V	illage (Near Sch	nool)					
	D	ay Time dB(A	4)	Nig	Night Time dB(A)				
	Min.	Max.	Avg.	Min.	Max.	Avg.			
October-2024.	37.5	39.4	38.5	37.3	38.7	38.0			
November-2024.	39.3	41.9	40.6	35.4	40.1	37.8			
December-2024.	36.9	37.2	37.1	38.5	39.7	39.1			
January-2025.	41.2	42.8	42.0	39.2	42.2	40.7			
February-2025.	40.8	41.4	41.1	34.8	34.7	34.8			
March-2025.	37.1	38.9	38.0	36.7	37.8	37.3			
Min.	36.9	37.2	37.1	34.8	34.7	34.8			
Max.	41.2	42.8	42.0	39.2	42.2	40.7			
Avg.	38.8	40.3	39.5	37.0	38.9	37.9			

BOKARO CEMENT MANUFACTURING WORKS (UNIT OF DCBL)

Noise Level report month of March 2025



Institute for Environmental Management



Test Report

SULR No.:	T	C	1	5	2	9	2	2 5	0	0	0	0	0	0	5	1	4
Discipline: Che	mical		Grou	p: Atn	nosph	eric Pol	lution	Sub-G	roup:	Ambi	ent N	oise L	evels	(Exclu	ding V	ibrat	ion)
Report Issue D	ate: 10-	03-202	25					Test R	eport	No.:	RN-24	11050	005N1	l .			,,
Sample ID: 250	307AP0	8001						Samp	e Des	criptie	on: Ar	nbien	t Nois	e			
Challan No./P.	O. No.:	15480	43346	/237				Challa	n No.	P.Ne	o. Dat	e: 05-	11-20	24			
Plot	ro Cem No IV/A	7(P)4	, Bok	aro In	dust	rial Area											
Boki Plot Boki	No IV/A	7(P)4 I City,	, Bok	aro In	dust	rial Area		dia	mar E	lanea	- anta	then:	Saniar S	u Var	ma		
Boka Plot Boka Type of Indust	No IV/A ro Stee ry: Ceme	7(P)4 I City,	Boka Boka	aro In	dust	rial Area		Custo									
Boki Plot Boki	No IV/A ro Stee ry: Ceme by: IEM	7(P)4 I City, ent I Tear	Boka Boka n	aro In iro-82	7014	rial Area		dia									
Boka Plot Boka Type of Indust Sample Drawn	No IV/A iro Stee ry: Ceme i by: IEM Guideli	7(P)4 I City, ent I Tear ne & I	Boka Boka m S Met	aro In ero-82 hod 9	989:1	rial Area		Custo									
Boke Plot Boke Type of Indust Sample Drawn Protocol: CPCE	No IV/A tro Stee ry: Ceme by: IEM Guideli tion: Go	7(P)4 I City, ent M Tear ne & II rabali	Boka Boka m S Met Near	hod 9	989:1	Jharkh	and Ir	Custo Samp	ing D		-03-2		07-0		S	SE.	

SI. No	Parameter	Method	Unit	Day Time	Night Time	Limite
1.	Equivalent Sound Level (Leq)	IS 9989:1981	dB(A)	46.8	40.7	D-55 N-45
		End of Repo	rts—		-90	

- 1. Day time shall mean from 6.00 a.m. to 10.00 p.m.

 2. Night time shall mean from 6.00 a.m. to 6.00 a.m.

 3. Mixed categories of areas may be declared as one of the four above mentioned categories by the competent authority.

 4. dB(A) Leq denotes the time weighted average of the level of sound in decibels on scale A which is relatable to human hearing.

 5. A "decibel" is a unit in which noise is measured. "A", in dB(A) Leq, denotes the frequency weighting in the measurement of noise and corresponds to frequency
- response characteristics of the human ear.

 6. Leg: It is an energy mean of the noise level, over a specified period.

Env.Condition of Lab.	Laboratory is maintaining Temperature 272 2°C and Relative Humidity 6525 % in all testing area as per 15 196:1966(C).
Abbreviation	MDL: Minimum Detection Limit .
Limit is Specified	As per Noise Pollution (Regulation and Control) Rules - 2000
Remark	Sample Comply with prescribed specification.

Tested By: Akanksha Sourabh

Sample Drawn By: Siddharth kumar & Team

Specific Contractual Notes: «	Reviewed by Jonn Authorized Signatory
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Total labelty of instrute for Environmental Management will be limited to invoiced amount only. In case of feedback/ complaints, please send an email at dom emeco@gmail.com	(Taugeer Ahmad) - (Dr. S. C. Jain)
On the basis of Quality Checked and Technical dots verified by the Authorized signalory, the report is assued by the Director of the Organization A-8, follow Heights, OppAttitudia Radio State	Technical Manager + birector

Laboratory Site - H.No. - A-13, Saket Vihar, Near Sohrai Bhawan, Harmu Housing Colony, Ranchi-834002, Jharkhand, India

Ph - 8407804253, 8407804251, Email - iem2012@rediffmail.com



Institute for Environmental Management



Test Report

SULR No.:	T	C	1	5	2	9	2	2	5	0	0	0	0	0	0	5	1	5
Discipline: Che	1	Grou	p: Atn	nosph	eric Po	llution	Sub-Group: Ambient Noise Levels (Excluding Vibration									tion)		
Report Issue D	ate: 10-0	3-202	25					Tes	t Re	port	No.: 1	RN-24	11050	005N2	2			
Sample ID: 25	307AP0	8002						San	nple	Des	criptio	n: Ar	nbien	t Nois	se			- 11
Challan No./P.	O. No.: 4	5480	43346	/237				Cha	llan	No.	P.No	. Dat	e: 05-	11-20	24			
	no Cem								Cer	ment	(Bha	rat) L	imite	d				
Plot Bok	No IV/A- aro Steel	7(P)4 City,	, Bok	aro In	dust	rial Ar	ea Ball	dih ndia	OWNER	*******		Aller Medic	1101027		ev Ver	ma		
Plot	No IV/A- aro Steel ry: Ceme	7(P)4 City,	Bok Bok	aro In	dust	rial Ar	ea Ball	dih ndia Cu	ston	ner F	Repres	senta	tive:	Sanjee		_		
Piot Bok Type of Indust Sample Draw	No IV/A- ro Steel ry: Ceme by: IEM	7(P)4 City, nt Tear	, Bok Bok n	aro In aro-82	7014	rial Are Jhark	ea Ball	dih ndia Cu	ston	ner F	Repres	senta	tive:	Sanjee		_		
Plot Bok Type of Indust	No IV/A- aro Steel ry: Ceme by: IEN Guidelir	7(P)4 City, nt Tear ne & I	, Bok Boka n S Met	aro In aro-82 hod 9	7014	rial Are Jhark	ea Ball	dih ndia Cu	ston	ner F	Repres	senta	tive:	Sanjee		_		
Piot Bok Type of Indust Sample Draw Protocol: CPCI	No IV/A- aro Steel ry: Ceme by: IEN Guidelin tion: Tha	7(P)4 City, nt Tear ne & I	Boka Boka n S Met	hod 9	989:1	Jhark 981	ea Bali	dih ndia Cu: San	ston	ner F	Repres	senta -03-2	tive:	Sanjee 0 07-0		.5	SE	

SI. No	Parameter	Method	Unit .	Day Time	Night Time	Limite
1.	Equivalent Sound Level (Leq)	IS 9989:1981	dB(A)	50.6	41.6	D-55 N-45

-End of Reports-

- 1. Day time shall mean from 6.00 a.m. to 10.00 p.m.
- 2. Night time shall mean from 10.00 p.m. to 6.00 a.m.

- 3. Mixed categories of areas may be declared as one of the four above mentioned categories by the competent authority.

 4. dB(A) Leq denotes the time weighted average of the level of sound in decibels on scale A which is relatable to human hearing.

 5. A "decibel" is a unit in which noise is measured. "A", in dB(A) Leq, denotes the frequency weighting in the measurement of noise and corresponds to frequency response characteristics of the human ear.

 6. Leq. It is an energy mean of the noise level, over a specified period.

Env.Condition of Lab.	Laboratory is maintaining Temperature 27s 2°C and Relative Humidity 65s5 % in all testing area as per IS 196:1966(C).
Abbreviation	MDL: Minimum Detection Limit
Limit is Specified	As per Noise Pollution (Regulation and Control) Rules - 2000
Remark	Sample Comply with prescribed specification.

Tested By: Akanksha Sourabh

Sample Drawn By: Siddharth kumar & Team

Specific Contractual Notes	Reviewed by Authorized Signatory
The leboratory accepts responsibility for content of this report. This report shall not be reproduced except in full, without written approved of the MD. This report is intended for only guidance and not for legal purpose or for advertisement. Any complaint about this report should be communicated in writing within 7 days of its issue.	Tomas Tomas
 Total lability of instrute for Environmental Management will be limited to invoiced amount only. In case of feedback/ complaints, please send an email at dom inmecostigmal com 	(Taugeer Ahmad) (Dr/ S. C. Jain)
On the base of Quality Checked and Technical data verified by the Authorized signalory, the report is assued by the Despite of the Organization. Comparate of fine et al. 8. Modif Heights, Opp. All India Radio 5	Technical Manager* Director

Page 1 of 1-

Laboratory Site - H.No. - A-13, Saket Vihar, Near Sohrai Bhawan, Harmu Housing Colony, Ranchi-834002, Jharkhand, India Ph - 8407804253, 8407804251, Email - lem2012@rediffmail.com



Institute for Environmental Management



Test Report

SULR No.:	T	C	1	5	12	9	12	2	5	0	0	0	0	0	0	5	1	6
Discipline: Chemical Group: Atmospheric Pollution							n	Sub-Group: Ambient Noise Levels (Excluding Vibrat									tion)	
Report Issue D	ate: 10-	03-202	5						Test A	epor	t No.:	RN-24	11105	005N	3			
Sample ID: 25	3307AP0	8003							Samp	e De	scripti	on: A	mbier	t Noi	se			
Challan No./P.	O. No.:	454804	3346/	237				-	Challa	n No	/ P.N	o. Dat	te: 05	11-20	24			
Type of Indust	ry:Ceme		Boka	ro-82	7014	Jhark	hand	Ind	Custo	mer	Repre	senta	tive:	Sanje	ev Ve	erma	ÿ	
Sample Draw	-		_	_			_	_	Samp								_	
Protocol: CPC				od 0	000-1	021		_	Samp	ing L	ate.o	0-03-2	.0231	001-	03-20			
Sampling Loca				iou 3	202.1	301	_			_	_		_					
				TA :	Tamo	PC1-2	5 T	ОН	(%):47	Ιw	V.C.: 5	unny		Tv	v n ·	NW I	SE	
Field Meteorological Information A. Temp. (°C):22 R.H. Sample Receiving date:07-03-2025 Testing Started:07										_	Ende	_	_	-	000			
			_	_	-	_	Te		eult		_	_			-			

SI. No	Parameter	Method	Unit -	Day Time	Night Time	Limits
1.	Equivalent Sound Level (Leq)	IS 9989:1981	dB(A)	48.2	42.6	D-55 N-45

-End of Reports-

- 1. Day time shall mean from 6.00 a.m. to 10.00 p.m.
- 2. Night time shall mean from 10.00 p.m. to 6.00 a.m.
- 3. Mixed categories of areas may be declared as one of the four above mentioned categories by the competent authority.
- 4. d8(A) Leg denotes the time weighted average of the level of sound in decibels on scale A which is relatable to human hearing.
 5.A "decibel" is a unit in which noise is measured. "A", in d8(A) Leg, denotes the frequency weighting in the measurement of noise and corresponse characteristics of the human ear.
- 6. Leq: It is an energy mean of the noise level, over a specified period.

Env.Condition of Lab.	Laboratory is maintaining Temperature 27± 2°C and Relative Humidity 65±5 % in all testing area as per IS 196:1966(C).
Abbreviation	MDL: Minimum Detection Limit
Limit is Specified	As per Noise Pollution (Regulation and Control) Rules - 2000
Remark	Sample Comply with prescribed specification.

Tested By: Akanksha Sourabh

Sample Drawn By:Siddharth kumar & Team

Specific Contractual Notes: -	Reviewed by	Authorized Signatory
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Total lability of instrute for Environmental Management will be limited to invoiced amount only. In case of leedback/ complaints, please send an email at dom immediating mail com	(Taugeer Ahmad)	/ (Dr. S. C. Jain)
On the base of Quality Checked and Technical data verified by the Authorized signatory, the report is asset by the Overior of the Organization. A.S. Modif Heights, Opp. All findia Radio Sci.	Technical Manager	Director

Laboratory Site - H.No. - A-13, Saket Vihar, Near Sohrai Bhawan, Harmu Housing Colony, Ranchi-834002, Jharkhand, India

Ph-8407804253, 8407804251, Email-lem2012@rediffmail.com



Institute for Environmental Management



Test Report

SULR No.:	T	C	1	5	2	9	2	2	5	0	0	0	0	0	0	5	1	7
Discipline: Chemical Group: Atmospheric Pollution					2	Sub-Group: Ambient Noise Levels (Excluding Vibratio							tion)					
Report Issue Da	ate: 10-0	03-202	25					\neg	Test R	eport	No.:	RN-24	1105	005N	4			
Sample ID: 250	307AP0	8004							Sampl	e Des	cripti	on: A	mblen	t Noi	se			
Challan No./P.	D. No.: 4	15480	43346	/237				17	Challa	n No.	/ P.N	o. Dat	e: 05-	11-20	24			
Type of Industr	ro Stee y: Ceme	_	Boka	ro-8	27014	Jhark	hand	\neg	Custo									
are a single interest and a second	A CONTRACTOR OF THE PARTY OF TH																	
Sample Drawn				_				_	Sampl	ing D	ate:U	-03-2	025 t	007-0	33-20	125		
Protocol: CPCB	Guideli	ne & I	S Meth	hod 9	989:1	981	P 45			- 11								
Sampling Locat	ion: Ne	ar Pro	ject O	ffice												111		
Field Meteorol	ogical tr	form	ation	A.	Temp	. (°C):2	2 1	.H.	%):47	W	.C.: S	unny		V	V.D.:	NW to	SE	
Sample Receiving date:07-03-2025 Testing Started:07-					07-0	3-2025	5	T	esting	Ende	d:10-	03-2	025					
	-	44.66			-		-Tes	Res	ult		1,000					Sept.		

SI. No	Parameter	Method	Unit	Day Time	Night Time	Limits
1.	Equivalent Sound Level (Leq)	IS 9989:1981	d8(A)	62.1	47.4	D-75 N-70

-End of Reports-

- 1. Day time shall mean from 6.00 a.m. to 10.00 p.m.

- 2. Night time shall mean from 10.00 p.m. to 6.00 a.m.
 3. Mused categories of areas may be declared as one of the four above mentioned categories by the competent authority.
 4. dB(A) Leg denotes the time weighted average of the level of sound in decibels on scale A which is relatable to human hearing.
 5.A "decibel" is a unit in which noise is measured. "A", in dB(A) Leg, denotes the frequency weighting in the measurement of noise and corresponds to frequency response characteristics of the human ear.
- 6. Leq: It is an energy mean of the noise level, over a specified period.

Env. Condition of Lab.	Laboratory is maintaining Temperature 272 2°C and Relative Humidity 6525 % in all testing area as per 15 196:1966(C).
Abbreviation	MDL: Minimum Detection Limit
Limit is Specified	As per Noise Pollution (Regulation and Control) Rules - 2000
	Sample Comply with prescribed specification.

Tested By: Akanksha Sourabh

Sample Drawn By: Siddharth kumar & Team

Specific Contractual Notes: +	Reviewed by	rm-Authorized Signatory
The report shall not be reproduced except in full, without written approval of the MD. This report is intended for only guidance and not for legal purpose or for advertisement. Any complaint about this report should be communicated in writing within 7 days of as issue. Total laboury of institute for Emmonmental Management will be limited to invoiced amount only.	T. Dlmad	
6 In case of feedback/ complaints, please send an email at dom emecolitymen com	(Taugeer Ahmad)	(Dr. S. C. Jain)
On the basis of Quality Checked and Technical data veniled by the Authorized signalory, the report is issued by the Director of the Organization.	Technical Manager	Director
Page 1 of 1 Corporate office - A-a, Modifierghts, Opp. All India Radio St	ation, Rato Road, Ranchi, Jhan	khand-834001

Laboratory Site - H.No. - A-13, Saket Vihar, Near Sohrai Bhawan, Harmu Housing Colony, Ranchi-834002, Jharkhand, India

Ph-8407804253, 8407804251, Email-lem2012@rediffmail.com

Annexure-XVII

Bokaro Cement Manufacturing Works (Unit of DCBL)

Solar light installed at different location of the plant

NEAR TOILT NEAR S. T. P.









NEAR AAQMS

NEAR PROJECT OFFICE

Annexure-XVIII

Bokaro Cement Manufacturing works

Unit of Dalmia Cement (Bharat) Limited

Green belt plan



BOKARO CEMENT MANUFACTURING WORKS (UNIT OF DCBL)

GREEN BELT DEVELOPMENT REPORT

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 fruits bearing species with large canopy will be selected for plantation.

Green Belt development report

Sl. N	Years	Area (Acres)	No. of Trees
01.	1st Year (2022-23)	0.5	550
02.	2nd Year (2023-24)	1.8	1665
03.	3rd Year (2024-25)	2.5	2380
TOTAL	-	4.8	4495

S.N	Year	Name of Species tree planted
1	1st Year (2022-23)	Gulmohar, Amaltash, Neem, Mihigini, shisham, Ashoka, Teak, Mango, Amala, Shiv Babool, Chatni, Jamun, Jarul
2	2nd Year (2023-24)	Gulmohar,Amaltash,Neem,Mihigini,shisham,Ashoka,Teak,Mango, Amala
3	3rd Year (2024-25)	Chatni,Gulmohar,Neem,Mihigini,Guava,Mango,Amala,Neem,Jamun Nerium

Green Belt development report



Tree plantation done at plant boundary location

DALMIA CEMENT (BHARAT) LIMITED, BOKARO

Carbon emission and carbon neutrality action plan

Cement is the basic building block of the housing and infrastructure development in the country. Unlike developed countries, India is uniquely positioned to maintain the growth, provide basic infrastructure and housing to its growing population and maintain the GHG emissions.

Globally, cement industry is classified as basic heavy-industry. As a result, European Union has put the cement industry in a unique position until 2030 where carbon allowances are provided free of cost (100%) to the cement and lime industries because it is not possible to pass on the cost of making carbon neutral cement or concrete to the customers in Europe, where per capita income of the population is way higher than in India.

Hence, a public-private approach to decarbonise the basic heavy-industry in India needs to be unique while serving the reasonable developmental expectations of the country and its people.

Despite the challenge of cement decarbonisation, Dalmia cement has been taking actions to reduce the GHG emissions. Dalmia Cement (Bharat) Limited (DCBL) is a leading cement manufacturer Dalmia Cement is one of India's pioneering homegrown cement companies, operating since 1939. Dalmia is one of the lowest carbon footprint cement producers globally and one of the most profitable cement company in India which reiterates its business philosophy of Clean and Green is Profitable and Sustainable.

Dalmia has served as climate catalyst in the global heavy-industry. It is the first triple joiner company globally to RE 100; EP 100; and EV 100 (significant transition to electric vehicles). Dalmia also aims to eliminate fossil fuels in the cement kiln.

Dalmia Cement is the leading voice on zero carbon transition at platforms such as United Nations, World Economic Forum and Annual Conference of Parties (COP) serving to the United Nations Framework Convention on Climate Change (UNFCCC). Dalmia has aligned its operations to Sustainable Development Goals (SDGs) within and beyond boundary through its Corporate Responsibility arm Dalmia Bharat Foundation.

Dalmia is founding member of the Leadership Group for Industry Transition (LEADIT), Chaired by India and Sweden to drive transformation in hard-to-decarbonize and energy-intensive sectors

Dalmia is a founding member of First Movers Coalition (FMC), an initiative endorsed by US President and aims at creating green products demand globally. In a major push to EV transition, Dalmia has procured 22 heavy-duty electric vehicles for its raw material transport. Dalmia has a target to become 50-million-ton cement group by 2025. It is already 13.3 times water positive and committed to become 20 times water positive by 2025.

The commitments and leadership of Dalmia on zero carbon transition offers a whole new set of opportunities for the global heavy industry sector to relook at the processes, technologies and techno-commercial models for decarbonization and/ or reduction of the carbon footprint.

Dalmia Cement (Bharat) Limited is a cement grinding unit which is located at Bokaro Jharkhand for the manufacturing of PSC (Portland Slag Cement) and CC (Composite Cement) with production capacity of 4.5 MTPA.

DCBL Bokaro using fuel for the moisture removing in raw materials and material transportation in vehicles. Electricity is used for plant operation.

The GHG emission is classified under two scope - Scope-1-Direct emission and Scope-2 Indirect emission from electricity consumption for cement manufacturing.,.

- GHG Emission from fuel consumption: Direct GHG emission occur from that are owned or controlled by the company (Scope 1).
 - Coal consumption in FBC (Indian Coal)
 - 2. Diesel Consumption in FBC for light up
 - Own vehicles and hiring equipment' by the company & fuel consumed process activities.

GHG Emission from fuels

Categories	UOM	2022-23	2023-24
Scope-1 Emissions from Coal & Diesel consumption for the process of Cement Manufacturing.		48	47

- 2. GHG emission from power consumption: Indirect GHG Emissions (Scope 2), accounts of GHG emission from the purchased electricity consumed by the company. Emission cannot be controlled at the sources it can be only controlled by changing the type of electricity consumed.
 - Electricity consumption from Grid.

GHG Emission from power consumption

Categories	UOM	2022-23	2023-24
Scope-2 Emissions from Electricit consumption	Kg CO2 /Tone of Cementitious material	42	41

Summary report of GHG emission last five years in below table

Categories	UoM	2022-23	2023-24
Scope-1 Emissions from Coal & Diesel consumption for the process of Cement Manufacturing.	Kg CO2 /Tone of Cementitious material	48	47
Scope-2 Emissions from Electricity consumption	Kg CO2 /Tone of Cementitious material	42	41

The emission intensity of GHG emission of our unit scope -1 and scope -2 decreases continuously from previous years on account of the actions taken.

Mitigation plan for reduction of GHG emission

DCBL Bokaro is working on GHG mitigation Plan to bring down the GHG emissions from fuel usage and electricity usage. One of the main mitigation opportunities, as an immediate lever, is -to increase share of renewal energy for the electricity consumption.

The carbon footprint accounting has been implemented as per the international best practice and it is used for internal as well as external benchmarking.

1. GHG emission mitigation:

Enhancing energy efficient of plant equipment's, use of renewal energy for electricity consumption and use of clean fuel /alternative fuel such as biodiesel in FBC.

(a) Reduction of GHG emission by the process optimization:

- We are continually reducing clinker consumption for cement manufacturing.
- Clinker silo constructed for the storage of clinker to reduces road transportation
- We have continually increase rail transportation for inwards and outwards materials, reduce road transportation.

(b) GHG emission reduction by improving energy efficiency plant equipment

We are regular working for reduction of power consumption in plant, energy efficient enhanced by working on the areas such as energy benchmarking study to identify the gaps in specific energy consumption such as process fan and other high energy consuming equipment's. To overcome the gaps, best practice could be followed to reduce the energy consumption. These measures for improving energy efficiency would proportionally result in reduce GHG emission due to increased energy efficiency and decreased energy consumption.

Implementation of ISO 50001:2018

We are in process for implementation of ISO 50001:2018 specific requirements for establishing, implementing, maintaining, and improving an energy management system (EnMS). The intended outcome is to enable an organization to follow a systematic approach in achieving continual improvement of energy performance and EnMS.

(C).Increasing power sourcing from renewal energy

We are working to increase share of renewal energy for the electricity consumption. The percentage of emissions could be reduced by improving the percentage of renewable energy either by onside installation (solar rooftop system) or offsite renewable energy consumption through PPA or Open Access. The higher amount of renewable energy consumption would lead to lesser GHG emissions over the period. Dalmia Cement (Bharat) Limited, Bokaro unit will work on procuring 100% Renewable energy in long -term and eliminate emissions from Grid electricity.

- (d) We have installed solar light & LED light in plant and colony area for the reduction of power consumption.
- (e)Tree plantation regularly done in plant & village area and maintaining the green belt. This will also help to reduce GHG emission.

2. Regular Assessment of GHG Emissions and Strengthening of Inventory

Dalmia Cement (Bharat) Limited plants including Bokaro unit carry out regular GHG assessment and a third party assured yearly inventory to ascertain as well as find reduction opportunities from the major sources of GHG emissions.

GHG Reduction Targets:

- (a). To driveinnovation resources are involved from various departments to reduce the emission. Thiswill bring buy-in from all the stockholders involved and help in driving innovation to reduce the GHG emission.
- (b) To improve cost efficiency: cost saving can be made by identifying opportunities to increase resources and energy efficiency. This may help to improve our competitive advantage
- (c) Organization will setup ambitious targets, measuring managing, reporting and reducing GHG emissions.
- (d) Organization will be conduct internal as well external energy audit reduction of GHG emission
- (e) It will help in raising awareness among consumers and employees on what role they can play in reducing impact of GHG emission
- (f) Dalmia Cement (Bharat) Limited Bokaro unit will continually analysis the GHGReduction potential opportunities identified, priorities and implement them to achieve GHG emission reduction target as well as associated cost benefit.

Annexure: XX

BOKARO CEMENT MANUFACTURING WORKS DALMIA CEMENT (BHARAT) LIMITED

Corporate Environment Responsibility & CSR report for the period of October 2024 to March 2025

SI. No	Name of Activity	Place of Activity/ Village	Expense (in Rs.)
1	Tailoring Training	Bishunpur, Gorabali south	45000.00
2	Soft toys making training	Gorabali North	40000.00
3	Distribution of Goats	Gorabali (N), Gorabali (S), Kanari, Khuntri Panchayat	291816.00
4	Distribution of Poultry Chicks	Kanari	51000.00
5	General Medicine and Gynecology Camp	Gorabali North	15000.00
6	Gram Parivartan Projects	Gorabali (N), Gorabali (S), Kanari, Khuntri Panchayat	200000.00
7	Distribution of Goats	Gorabali (N), Gorabali (S), Kanari, Khuntri Panchayat	450000.00
8	Support to District Administration	Gorabali North	7600.00
9	Plantation	Gorabali	36000.00
10	Aangawadi and Community Centre Renovation, Purnatand	Khuntri	312156.00
11	Republic Day	Bokaro DikshA	25000.00
12	Blanket Distribution	Gorabali (N), Gorabali (S), Kanari, Khuntri and Narkara Panchayat	348991.00
13	Skill trainning to local youths at Bokaro DiskhA	Bokaro	1000000.00
14	Digital Literacy through WoW Bus	Jaridih, Bhutkuru	857000.00
15	International Women's day celebration	DCBL	35000.00
15	Well Renovation	Gorabali North	247123.00
	Total		3961686.00



Renovation of Aganwadi



Tree plant distributed in village for plantation



Distribution of Goats in nearby village



Promotion of micro enterprise







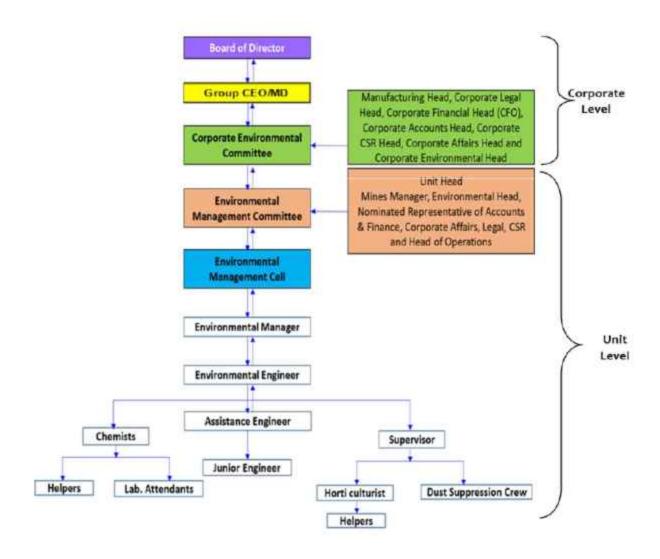
Skill training to local youths at Bokaro Diksha



Skill training to local youths at Bokaro Diksha

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.



Annexure: XXII

BOKARO CEMENT MANUFACTURING WORKS DALMIA CEMENT (BHARAT) LIMITE

Investment on Environment management up to March 2025

Sn	Item	Cost (Rs. in Crores)
1	Cost of Air Pollution Control Systems	
Α	APCEs like Bag house with stack & auxiliary Bag filters cost	25.0
В	Cost of CAAQMS & Opacity Meter and Digital Display Board	1.0
С	Road Sweeping Machine	0.30
D	Water Tanker spraying	0.01
Ε	Concreting of internal road and drainage	8.0
	Sub Total	34.31
2	Cost of Water conservation & Pollution Control	
Α	STP of 15 KLD	0.25
В	Rain water harvesting system with drainage pipes, Flow meter for raw water, Sprinklers & drip irrigation systems for greenbelt/plantation etc.	0.35
	Sub Total	0.6
3	Cost of Solid Waste Management System-Storage with concrete flooring for Solid & Hazardous waste	0.5
4	Green belt development	0.05
5	Noise Reduction Systems-enclosures for machineries with suitable absorption material, vibration isolators for all fans, compressors etc.	0.05
	Grand Total	35.51

Bokaro Cement Manufacturing Works (Unit of DCBL)

Recurring cost investment on Environment protection October 2024 to March 2025

	Cost on Schedule maintenance	Cost in Lakh
1	Bags replacement with new bags, Bags cleaning. De dusting line checking, cleaning and repairing work. Bag filters fan maintenance etc)	3.2
2	Power consumption in Pollution control equipment (Bag House & Bag Filter) 7102401 KWH X 5.74	407
2	Third Party Environmental Monitoring & Analysis	0.45
3	AMC of CEMS Data transmission to JSPCB& CPCB	0.15
4	AMC of CAAQMS and data transmission to Maintenance, Servicing and Calibration,	
6	Calibration of Pollution Monitoring Equipment's (CEMS)	1.5
7	Calibration of Pollution monitoring instrument (RDS &Stack VSSI,Noise level meter)	0.15
9	Water Pollution Management (AMC of STP, R.O Plant, D.M. Plant, & Softener Plant), Cleaning of Nala,	0.25
10	STP Operation & Maintenance	1.23
11	Road Sweeping Machine Operation & Maintenance	1.15
12	Disposal of Bio medical waste	0.03
13	Fuel consumption in water sprinkling tanker of water on dusty area	0.1
14	Green Belt Development	6.5
	L RECURRING COST EXPENDITURE FROM OCTOBER O MARCH 2025 (Rs) in Lakhs	422.4

Annexure: XXIII

Environment Internal audit report

October 2024-March-2025

Date: 22.03.2025

Following below members present in Environment Audit:

1. Arvind Kumar: (Head Mechanical)

2. LR Patel: (Head E&I)

3. Mahesh Sharma: (Head Civil)

Sr. No	Environment internal audit observation points	Environmental Compliance Status	Auditor Observation
1.	Review status of Statutory compliance - Consent to Operate (CTO) & Environment Clearance (EC) compliance condition	Complied. Timely submitted EC Compliance report to JSPCB /MOEF&CC /CPCB/SEIAA.	Complied
2.	Review status of Statutory compliance - E-Waste Management	Complied Timely submitted E-Waste return to JSPCB Ranchi and Dhanbad.	Complied
3.	Statutory compliance - Hazardous waste management	Complied. Timely submitted Hazardous waste return Form-IV JSPCB & Dhanbad	Complied
4.	Review status of Statutory compliance Condition of OHC, CTO and Authorization of Bio medical waste compliance condition under Bio- Medical Waste Management.	Hazardous waste return Form-IV	Complied
5	Checked On Line CEMS & CAAQMS data at JSPCB & CPCB Server	Complied,On line CEMS & CAAQMS Data updated in JSPCB & CPCB server	Complied
6	Checked Calibration certificate record of Pollution monitoring equipment.	Complied. On line CEMS & CAAQMS instrument calibrated with in time.	Complied

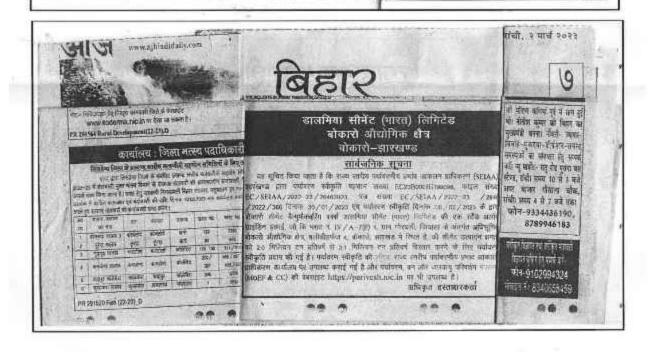
7	On Line monitoring data display at factory main gate.	Complied. Online Environment monitoring data displayed at main gate	Complied.
8	Checked Third party Environment monitoring report.	Complied, third party Environment monitoring report done on quarterly basis.	Complied.
9	Checked Drinking water quality	Complied, Drinking water quality regular checked.	Complied.
10	Checked status validity of CTO & EC	Complied. within time limit	Complied.
11	Checked fugitive dust emission records	Fugitive dust emission measures taken.	Complied
12	Status of Green belt development	Complied Green belt maintained 33% of the plant	Complied
13	Rain water harvesting system	Rain water harvesting system constructed and maintained	Complied
14	Status of Bag filter /Bag house	All plant Bag filter and bag house is working condition.	Complied
15	Submission of Environment statement to JSPCB	Environment Statement submitted with in time for the year 2023-2024	Complied
16	Statue of water spray tanker for control of fugitive dust emission	Water spray tanker regular water spray on the roads and dust prone area for the control of fugitive dust emission and record maintained	Complied
17	Status of road swapping machine	Regular cleaning of the roads and concreated area by road swapping machine and record maintained	Complied
18	Status of Solar light	Solar light installed at different location in the plant	Complied

Authorized Signatury

Public notice published in "Pioneer" Newspaper & "Aai" newspaper dated :02.03.2023

Public notice published in "Pioneer" Newspaper & "Aaj" newspaper dated :02.03.2023





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:



E12579554255N TVR:6974257956425 UP BSCITY RS SU (827618) Counter No.1,44/83/2021,16:17 TO THE REGIONAL OFFICER, DAVE OF PINISISSEN, Dhumbar HD From SAMMERY VERMA, DYLINIA CENENT wt:8tons Ant:41.30(Cash)Taxtb.3e CTrack on wew.indiagost.gov.tn2

(Bia) 19082556888> (Wear Masks, 100

cement! sugar! refractories! power!

Date:02.03.2023

FUTURE TODAY

Regional Officer, Jharkhand State Pollution Control Board H.I.G.-1, Sardar Patel Nagar, Hirapur Dhanbad - 826001

Sub.: Proposed Expansion of Coment Production Capacity of "Bokaro Cement Manufacturing Works", A Standalone Grinding Unit of Dalmia Cement (Bharat) Limited, from 2.0 Million TPA to 3.1 Million TPA at Plot No. IV/a-7(p)4, Village- Gorabali, Notified Bokaro Industrial Area Under JIADA, Balidih Phase-4, Bokaro, Jharkhand. Reg. Submission of copy of Environmental Clearance.

Ref.: 1. Environmental Clearance granted by State Level Environment Impact Assessment Authority (SEIAA), Jharkhand vide EC Identification No.: EC23B000JH199098; File No: EC/SEIAA/2022-23/26462023; letter no EC/SEIAA/2022-23/ 2646/2022/366, dated 30.01.2023 & EC issuance date 08.02.2023.

2. Consent to Establish granted by Jharkhand State Pollution Control Board vide Ref. No.: JSPCB/HO/RNC/CTE-15399804/2023/128 dated 23.02.2023

Dear Sir.

With reference to above mentioned subject and reference, we would like to submit that Environmental Clearance has been granted for expansion of cement production capacity of Bokaro Cement Manufacturing Works, a standalone Grinding Unit of Dalmia Cement (Bharat) Limited, from 2.0 Million TPA to 3.1 Million TPA 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 expansion 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 expansion in two newspapers named "The Pioneer and Aaj on 02.03.2023" in English as well as in vernacular language i.e. hindi.

In compliance of condition no 2. of XI. MISCELLANEOUS stipulated in granted EC, A Copy of Environmental Clearance, Consent to Establish and 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)

Broks Mohm **Authorized Signatory**

Encl: As above

Dalmia Cement (Bhornt) Limited

Unit : Boliaro Cement Manufacturing Works Pioc No. 19/A-7(P)4, Bokara Industrial Area, Balidiii, Bokara Swel City, Pehara-822014, [harkhand, India T+91 6542 253 278 / +91 6542 253 047 Tall Pres 1800 2020 W www.dalmiacoment.com CIN:11051917/N1906P1/C035963 Registered Office: Dalmiopuram, Divirior Truchtrapalli, Ihmil Nada - 621 651, India. A **Dalmie Bharat Group** Conguny, www.dalmiabharat.com



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Date:02.03.2023

FUTURE TODAY

The Director.

Ministry of Environment, Forest and Climate Change, 2nd floor Head quarter -Jharkhand State Housing Board Harmu Chowk, Ranchi -Jharkhand Pin- 834002

Sub.: Proposed Expansion of Cement Production Capacity of "Bokaro Cement Manufacturing Works", A Standalone Grinding Unit of Dalmia Cement (Bharat) Limited, from 2.0 Million TPA to 3.1 Million TPA at Plot No. IV/a-7(p)4, Village- Gorabali, Notified Bokaro Industrial Area Under JIADA, Balidih Phase-4, Bokaro, Jharkhand. Reg. Submission of copy of Environmental Clearance.

Ref.: 1. Environmental Clearance granted by State Level Environment Impact Assessment Authority (SEIAA), Jharkhand vide EC Identification No.: EC238000JH199098; File No: EC/SEIAA/2022-23/26462023; letter no EC/SEIAA/2022-23/2646/2022/366, dated 30.01.2023 & EC issuance date 08.02.2023.

 Consent to Establish granted by Jharkhand State Pollution Control Board vide Ref. No.: JSPCB/HO/RNC/CTE-15399804/2023/128 dated 23.02.2023

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

Authorized Signatory Enci: As above

Dalmia Cement (Bharat) Limited

Unit : Bokaro Cement Manufacturing Works

Plot No. IV/A-7(P)4, Bokuro Industrial Area, Bollidli, Bokuro Steel City, Bokuro-837014, Jicarkhand India T +91 6542 253 278 / +91 6542 253 047 Toll Free 1800 2020 W www.dalmiacemenc.com CIN:U65191TN1996PLC035963 Registered Office : Dalmiapuram, District Tiruchirapalli, Tamii Nada - 621 651, India.

A Dalmia Bharat Group Company, www.dalmlabharat.com



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cement! sugar! refractories! power!

Date:02.03.2023

Member Secretory, Jharkhand State Pollution Control Board, Township Administration Building (Ground Floor) HEC Complex, Dhurwa Ranchi-834004

Sub.: Proposed Expansion of Cement Production Capacity of "Bokaro Cement Manufacturing Works", A Standalone Grinding Unit of Dalmia Cement (Bharat) Limited, from 2.0 Million TPA to 3.1 Million TPA at Plot No. IV/a-7(p)4, Village- Gorabáli, Notified Bokaro Industrial Area Under JIADA, Balidih Phase-4, Bokaro, Jharkhand. Reg. Submission of copy of Environmental Clearance.

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(Unit: Bokaro Cement Manufacturing Works)

Authorized Signatory Encl: As above

Dalmia Cement (Bharat) Limited

Unit : Bokaro Cement Manufacturing Works

Plot No. 19/A-7(P)A, Bokaro Industrial Area, Ballidh, Bokaro Steel City, Bakaro-827024, Jharkierned India

T +91 6542 253 278 f + 91 6542 253 047 Toll Free 1800 2020 W www.dolmiacement.com CIN 19651817N1996P1.C035983.

Registered Office: Daimiagurum, Dharket Trachirapalli, Tareit Nuda - 521 651, India.

A Dalmie Bharat Group Company, www.dolmiobharat.com.



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Date:02.03.2023

To

The Secretory, Industry Department Govt.of Jharkhand Ranchi (Jharkhand)

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Authorized Signatory Encl: As above

Dalmia Cement (Bharat) Limited

Unit: Bokaro Cament Manufacturing Works
Piot No. IV/A-7(P)4, Bakara Industrial Aces, Balldift, Bokaro Seed City, Bakaro-827014, [harkhand.India
T +91 6542 253 278) - 91 6542 253 047 Tabi Free 1800 2020 W www.dalmiocement.com CIN:U691017N1996FLG035963
Registered Office: Dalmiograms, District Trachingoll), Tamil Nada - 621 651, India,
A Dalmia Bharat Group Compuny, www.dalmiobharat.com



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To

Date:02.03.2023

The Deputy Commissioner, Bokaro Steel City Bokaro Jharkhand

Sub.: Proposed Expansion of Cement Production Capacity of "Bokaro Cement Manufacturing Works", A Standalone Grinding Unit of Dalmia Cement (Bharat) Limited, from 2.0 Million TPA to 3.1 Million TPA at Plot No. IV/a-7(p)4, Village- Gorabali, Notified Bokaro Industrial Area Under JIADA, Balidih Phase-4, Bokaro, Jharkhand. Reg. Submission of copy of Environmental Clearance.

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Dalmia Cement (Bharat) Limited

Unit: Bokaro Cement Manufacturing Works
Plot No. 1V/A-7(P)4, Bokaro Industrial Area, Balldih, Bokaro Steel City, Bokaro-827014, Ihatikhand, India
T +91 6542 253 278 / +91 5542 253 047 Toll Free 1800 2020 W www.dalmiacument.com CIN: U65191TN1096PLC035863
Registered Office: Dalmiapuram, District Truckirupalli, Thmil: Nodu - 621 551, India.

A Dalmia Bharat Group Company, www.dalmiabharat.com



cement! sugar! refractories! power!

Date:02.03.2023

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

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(Unit: Bokaro Cement Manufacturing Works)

Authorized Signatory Encl: As above

कर्तारहास्त्र एक पंजाबत गोलवाली दव इस्टब्स्ट सास (बोबली)

Dalmia Cement (Bharat) Limited

Unit : Bokaro Cemeni Manufacturing Works
Pior No. IV/A-7(P)4, Bokaro Industrial Area, Balidin, Bokaro Steel City, Bokaro-827014, Ibarkhond, India
T +91 6542 283 278 / +91 6542 253 047 Tall Free 1800 2020 W www.dalmiacomem.com CIN: U65191TN1396PLC035863
Registered Office : Dalmiaperum, District Tiruchirapalli, Tomii Nadu - 621 651, India.
A Dalmia Bharat Group Company, www.dalmiabharat.com



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Date:02.03.2023

To

Member Secretory,

State Level Environment Impact Assessment Authority, Nursery Complex, Near Dhurwa Bus Stand, Dhurva Ranchi-834004

Sub.: Proposed Expansion of Cement Production Capacity of "Bokaro Cement Manufacturing Works", A Standalone Grinding Unit of Dalmia Cement (Bharat) Limited, from 2.0 Million TPA to 3.1 Million TPA at Plot No. IV/a-7(p)4, Village- Gorabali, Notified Bokaro Industrial Area Under JIADA, Balidih Phase-4, Bokaro, Jharkhand. Reg. Submission of copy of Environmental Clearance.

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Authorized Signatory Encl: As above

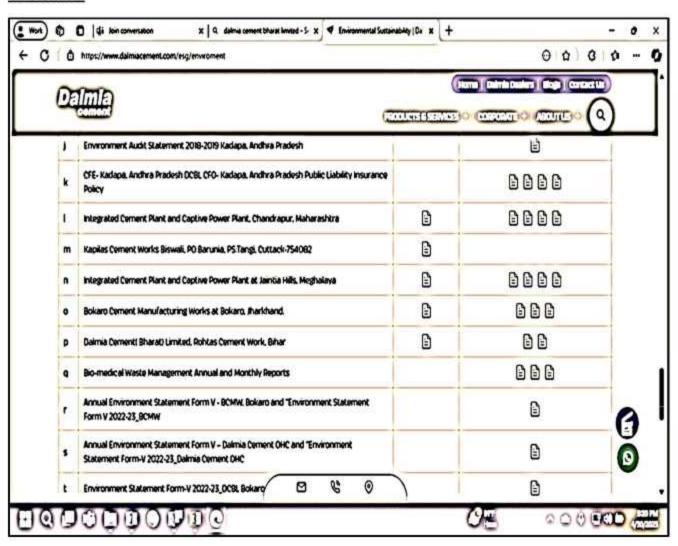
Dalmia Cement (Bharat) Limited

Unit : Bokuro Coment Manufacturing Works
Pioc No. 197A-7(P)4, Bakara Industrial Arm., Balaith, Bokuro Steel City, Bokuro-827014, [hackbland, India
T +91 6542 253 278 / +91 6542 253 047 301 Pres 1600 2020 W www.dathalacoment.com CIty:U651917N1998PLC038903
Registered Office: Endmingerom, District Prachingpallt, Tamil Nodu - 621 651, India.

A Dalmia Bharat Group Company, www.dalminbharac.com

Annexure-XXVI

Half yearly EC Compliance report uploaded in company official website



Annexure-XXVII

CAAQMS Monitoring data displayed at factory main gate

