

Your (Half Yearly Compliance Report) has been Submitted with following details

Proposal No	51A/JH/IND1/413722/2023
Compliance ID	1227591640
Compliance Number(For Tracking)	EC/COMPLIANCE/1227591640/2026
Reporting Year	2026
Reporting Period	01 Jun(01 Oct - 31 Mar)
Submission Date	23-05-2026
RO/SRO Name	Shri Senthil Kumar Sampath
RO/SRO Email	agmu156@rs.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.

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

Date: 14.05.2026

Subject: Half yearly Environment Clearance (EC) Compliance report of Bokaro Cement Manufacturing Works (Unit of Dalmia Cement (Bharat) Limited) Bokaro for the period of October 2025 to March 2026.

Ref: EC Letter no: EC/SEIAA/2022-23/2646/2023/386, Ranchi, Date: 08.02.2023, EC Identification no.EC23B000JH199098

Dear Sir,

Please find enclosed herewith half yearly Environment Clearance compliance report of Bokaro Cement Manufacturing works (Unit of Dalmia Cement (Bharat) Limited), Bokaro, Jharkhand for the period of October 2025 to March 2026 for your kind perusal. We have also uploaded EC Compliance report in Parivesh 2.0 Portal of MoEF and CC and the soft copy of EC Compliance report is also being sent through email to following authorities:
mseiaa.jhk@gmail.com; ro.ranchi-mef@gov.in; ranchijspcb@gmail.com; ccb.cpcb@nic.in
dhanbadjpcb@gmail.com; info@jseiaa.org.chr-seiaajhr@gov.in

Thanking you.

Yours Sincerely,

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



Authorized Signatory

Copy:

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

Enclosed: EC Compliance Report along with 42 nos of annexures

**Bokaro Cement Manufacturing Works
(A unit of Dalmia Cement Bharat Limited)**

Plot No. 1204/2PM, Bokaro Industrial Area, Patildi, Bokaro Steel City, Bokaro - 827014, Jharkhand, India
5/13/2026 5:24 PM Verma Sanjay G. M...
Registered Office: Dahanuapuram, District: Trichy, Tamil Nadu - 621011, India
A Dalmia Bharat Group company, www.dalmiabharat.com

BOKARO CEMENT MANUFACTURING WORKS

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

Environment Clearance Compliance Report

For the period of October 2025 to March 2026

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 2025 TO MARCH 2026

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

S. No.	EC Conditions	Compliance
Specific Conditions		
i.	This Environmental Clearance is valid subject to the following condition below — That this project has- a. Obtained all legal rights to operate at concerned place. b. Complied with all existing concerned laws of the land and c. Complied with the decisions of SEIAA on the issue of Environmental Clearance till date.	Complied 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. Statutory 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.

S. 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 24.02.2024 attached 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.	Complied. Authorization under the Hazardous and other Waste Management Rules 2016 obtained from JSPCB Ranchi copy of the same attached as per Annexure: VI
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	Not Applicable and EC has already been obtained

S. No.	EC Conditions	Compliance
	applicable to this project (in case any fauna occurs/ is found in the project area or if the area involves forest land or wildlife habitat i.e. core zone of elephant /tiger reserve etc. and or located within 10 km. of protected area.)	
10	The project proponent may apply simultaneously for forest and NBWL clearance, in order to complete the formalities without undue delay, which till process on their respective merits, no rights will vest in accrue to them unless all clearance are obtained.	Not Applicable.
II. Air quality monitoring and preservation		
1	The project proponent shall install 24 x 7 continuous emission monitoring system at process stacks to monitor stack emission with respect to standards prescribed in Environment (Protection) Rules 1986 vide G.S.R no 612 (E) dated 25 August 2014 (Cement) and subsequent amendment dated 9 th May 2016 (Cement) and connected to SPCB and CPCB online servers and calibrate these system from time to time according to equipment supplier specification through labs recognized under Environment (Protection) Act 1986 or NABL accredited laboratories.	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 9 th May 2016 (Cement) and connected to SPCB and CPCB online servers. CEMS is being regularly calibrated Stack emission monitoring report and CEMS calibration certificate from October 2025 to March 2026 is attached as per Annexure: VII.
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 dust emission regularly monitored. Fugitive emission monitoring report from October 2025 to March 2026 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 at upwind and down wind direction at the plant boundary location. Regularly continuous Ambient air quality monitored. CAAQMS data regularly transmitted to JSPCB and CPCB server. CAAQMS monitoring instruments regular service and calibrated done on quarterly basis. We are also monitoring AAQM within the plant and outside of the plant village area at the angle of 120 degree from NABL/JSPCB approved laboratory.

S. No.	EC Conditions	Compliance
		On line CAAQMS monitoring reports, CAAQMS monitoring instrument Calibration report and Manual Ambient air quality monitoring report from NABL/JSPCB for the period from October 2025 to March 2026 attached as per Annexure: IX
4	The project proponent shall submit monthly summary report of continuous stack emission and air quality monitoring and results of manual stack monitoring and manual monitoring of air quality /fugitive emissions to Regional Office of MoEF&CC. Zonal office of CPCB and Regional Office of SPCB along with six- monthly monitoring report	Complied with. Stack emission and AAQM regularly monitored. Monitored reports are being 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. Maintenance of air pollution control equipment details attached as per Annexure : XI
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 XII
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. Photographs of cleaning of roads/floor and log book of road sweeping machine for the period of (October-2025-March 2026) attached as per Annexure :11 Annexure: XIII
9	Ensure covered transportation and conveying of raw material to prevent spillage and dust generation; use closed	Complied with. All raw materials/products are being transferred within plant by covered

S. No.	EC Conditions	Compliance
	bulkiers for carrying fly ash.	conveyor belt. Inward & outward transportation of Raw materials & products done in covered tarpaulin trucks/ bulkiers/ rail to control material spillage as well as fugitive dust emission. Photographs are attached as per Annexure: XIV
10	Provide wind shelter fence and chemical spraying on the raw material stock piles	Complied with Boundary wall constructed all around the plant, covered shed and walls constructed in packing plant and mill area. All the raw materials and products stored within the covered storage shed and silos. Photographs attached as per Annexure XV
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. Track parking photographs and PUC certificate copy attached as per Annexure XVI
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, bulkiers, 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. All Photographs attached as per Annexure: XVII
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 cement packing plants.
III. Water quality monitoring and preservation		
1	The project proponent shall install effluent monitoring system with respect to standards prescribed in Environment (Protection)	Not applicable There is no requirement of water for manufacturing process. Water is being used

S. No.	EC Conditions	Compliance
	<p>Rules 1986 vide G.S.R No. 612 € dated 25th August, 2014 (Cement) and subsequent amendment dated 9th 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).</p>	<p>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.</p>
2	<p>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.</p>	<p>Not Applicable. 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 regularly monitored of surrounding village. Reports for the period of October 2025 to March 2026 attached as per Annexure-XVIII</p>
3	<p>The project proponent shall submit monthly summary report of continuous effluent monitoring and results of manual effluents testing and manual monitoring of ground water quality to Regional Office of MoEF&CC, Zonal office of CPCB and Regional Office of SPCB along with six-monthly monitoring report.</p>	<p>Not applicable. There will not be any effluent generation from the plant.</p>
4	<p>Adhere to 'Zero Liquid Damage'</p>	<p>Being complied.</p>
5	<p>Sewage Treatment Plant shall be provided for treatment of domestic wastewater to meet the prescribed standards.</p>	<p>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 2025 to March 2026 attached as per Annexure: XIX</p>
6	<p>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</p>	<p>Complied with. Garland drains and collection pits, clay sand, slit barrier provided on drains for arrest the run-off in the event of heavy rains and to</p>

S. No.	EC Conditions	Compliance
	run-off.	check the water pollution due to surface run-off. Garland drains and collection pit photographs attached as per Annexure: XX
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: XXI
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: XXII
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 quality analysis report from October 2025 to March 2026 attached as per Annexure: XIX
IV. Noise monitoring and prevention		
1	Noise level survey shall be carried as per the prescribed guidelines and report in this regard shall be submitted to Regional 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.
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 2025 to March 2026 attached as per Annexure- XXIII
V. Energy Conservation measures:		
1	Provide solar power generation on rooftops of buildings, for solar light system for all common areas, street lights, parking around project area and maintain the same regularly.	Complied with. Solar based LED lights installed at different location of the plant. Photographs attached as per Annexure: XXIV
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 Fly ash and slag waste material from power plant and steel plant are being using for

S. No.	EC Conditions	Compliance
		cement manufacturing process as per BIS norms.
VI. Waste Management		
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 are being utilized by nearby villagers to fed to the animals.
VII. Green Belt		
1	Green belt shall be developed in an area equal to 33% of the plant area with a native tree species in accordance with CPCB guidelines. The greenbelt shall inter alia cover the entire periphery of the plant.	Complied with Greenbelt/plantation work done over 33% of the total project area i.e., about 5.2 acres (2.105 ha). The green belt are 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: XXV
2	The project praponent 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 reduction plan report attached as per Annexure: XXVI
VIII. Public Hearing and Human Health issues:		
1	Emergency preparedness plan based on the Hazard identification and Risk Assessment (HIRA) and Disaster Management Plan shall be implemented	Complied with. On site emergency Preparedness plan, Hazard identification and Risk Assessment (HIRA) prepared and same is approved by Chief Factory Inspector of Jharkhand. Copy of same attached as per Annexure: XXVII
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. PPEs issued for the period of October 2025 to March 2025 attached as per Annexure-XXVIII

S. No.	EC Conditions	Compliance
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 year. Reports maintained as per Factory Act. Few medical health checkup report October 2025 to March 2026 attached as per Annexure-XXIX
IX. Corporate Environment Responsibility:		
1	The project proponent shall comply with the provisions contained in this Ministry's OM vide F. No. 22-65/2017-14. III dated 1 st May 2018, as applicable, regarding Corporate Environment Responsibility.	Being Complied. The company invested around 1.5 Crores on the various Environment protection and socio-economic developmental activities on the basis of findings of Participatory rural appraisal which will be conducted periodically by DBF. All Environment protection activities and 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 2025 to March 2026 attached as per Annexure- XXX
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 /	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

S. No.	EC Conditions	Compliance
	conditions. The company shall have defined system of reporting infringements / deviation / violation of the environmental / forest / wildlife norms / conditions and / or shareholders / stakeholders. The copy of the board resolution in this regard shall be submitted to the MoEF & CC as a part of six-monthly report.	Company is attached as an Annexure XXXI .
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).Plant Environment management cell attached as per Annexure: XXXII
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 EMP Implemented. Separate budget allocated for Environment Protection. It is ensured that budget shall not be diverted for any other purpose. Expenditure on environmental protection are being regularly submitted to Ministry and his Regional Office as a part of Six-Monthly EC compliance report. Expenditure on Environment protection up to October 2025 to March 2026 attached as per Annexure- XXXIII
5	Self-environmental audit shall be conducted annually. Every three years third party environmental audit shall be carried out.	Complied With. Self-Environment Audit and Third-party Environment audit is being regularly done. Self-Environment audit report and Third-party Environment audit report attached as per Annexure: XXXIV .
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 control measures as per CREP guideline of CPCB implemented.
XI. Miscellaneous:		
1	The project proponent shall make public the environmental clearance granted for their project along with the environmental	Complied A public notice informing about grant of EC has been published in two newspapers



S. No.	EC Conditions	Compliance
	<p>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.</p>	<p>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 XXXV.</p> <p>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-XXXVI.</p>
2	<p>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.</p>	<p>Complied.</p> <p>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-XXXVI.</p>
3	<p>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.</p>	<p>Complied. half yearly EC Compliance report uploaded in company official website. screen short attached as per Annexure-XXXVII</p>
4	<p>The project proponent shall monitor the criteria pollutants level namely; PM 10, SO₂, NO_x (ambient levels as well as stack emissions) or critical sectoral parameters, indicated for the projects and display the same at a convenient location for disclosure to the public and put on the website of the company.</p>	<p>Complied with. Emission monitoring data displayed at the factory main gate. Display Board photographs attached as per Annexure-XXXVIII</p>
5	<p>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.</p>	<p>Complied with. EC compliance report uploaded in Parivesh 2.0 Portal of MoEF and CC website. Acknowledge copy attached as per Annexure: XXXIX</p>
6	<p>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.</p>	<p>Complied with.</p> <p>Environment Statement in Form V is regularly submitted to JSPCB, Dhanbad & Ranchi. Last Environment Statement was submitted vide our letter no. DCBL/ENV-ES/24-25/, Dated 20.09.2025. same is also uploaded in company official website Annexure-XXXX</p>

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 final approval: 27April '2022 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.	Agreed.
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)	Complied with. Half yearly EC Compliance reports are being regularly submitted in 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) EC covering letter and mail copy attached XXXXI
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.	Agreed.
10	The SEIAA, Jharkhand or any other competent Authority may alter modify the above conditions or stipulate any further conditions in the	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)	Agreed
12	Concealing factual data or submission of false/fabricated data may result in revocation of this environmental clearance	Agreed

S. No.	EC Conditions	Compliance
	and attract action under the provisions of Environment (Protection) Act, 1986.	
13	The Ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.	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.	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.	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.	Being complied. Public Liability Insurance copy attached as per Annexure: XXXXII
17	Any appeal against this EC shall lie with the National Green Tribunal, if preferred, within a period of 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.	Agreed
18	This environmental clearance is valid for seven years from the date of issue.	Complied

Annexure-I

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

		Government of Jharkhand	
Department of Forest, Environment and Climate Change			
Permission Letter : LETTER20211220			
Acknowledgment No: SWSFST111120213103		Issue Date: 21-12-2021	
Name Of Applicant : Dalmia Cement Bharat Limited			
Email ID : sinha.rajeevkumar@dalmiacement.com.		Contact no.: 9771478206	
Report of Distance from Forest, Forest Reserve and Sanctuary			
SNo	Checkpoint	Divisional Forest Officer	
1	Whether Distance of Project location from Reserved Forest/Protected Forest is 250 m?	Yes	
2	Whether Project location come under No Mining Zone?	No	
3	Does there any National park located within 10 km from project location?	No	
4	Does there any Wildlife sanctuary located within 10 km distance from project location?	No	
5	Does there any ESZ available within 10 km distance from project location?	No	
6	Whether Proposed project comes under prohibited category of ESZ (Yes or No)?	No	
		Name : _____	
Note :-The order dated 12.12.1996 in case no. 202/95 passed by Hon'ble Apex Court will be applicable in respect of GMJ Land.		Designation : _____	
		Signature : 	
		Divisional Forest Officer Bokaro Forest Division Bokaro	
*The certificate to be issued by the Divisional Forest Officer of the respective Division and upload			



Department of Forest, Environment and Climate Change

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

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

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

Location of Proposed Land

District: Bokaro

Battery Point: Gorabali

Thana No.: 14

Thana Name: Jaridih

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

Khesra Name: 892 (F),781 (P),777 (F),784 (P),779 (P),778 (P),782 (P),783 (P),837 (F),890 (F),888 (P),880 (P),852 (P),891 (F),960(P),850(P),893 (P),851 (P),858 (P),871 (F),957 (P),870 (P),958 (F),884 (F),885 (F),886 (F),776 (P),883 (F),882 (F),875 (F),862 (F),876 (F),881 (F),879 (F),878 (F),874 (F),863 (F),866 (F),873 (F),864 (F),868 (P),861 (F),867 (P),865 (F)

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

Division: DFO Bokaro

Letter No: 3546

Date of issue: 21/12/2021

Signature:

Name: Divisional Forest Officer

Bokaro Forest Division

Divisional Forest Officer

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

11/28/21, 5:08 PM

Inspection Report of Distance from Forest, Forest Reserve and Sanctuary



Department of Forest, Environment and Climate Change

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

Name Of Applicant: Dalmia Cement Bharat Limited
 Institution Type: Non Government
 Email ID: sinha.rajeesvaran@dalmiacement.com

Contact no.: 9771478206

Location of Proposed Land

District: Bokaro
 Thana No.: 14

Battery Point Name: Jaridih

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

Khata Name: 692 (F),781 (F),777 (F),784 (F),779 (F),778 (F),782 (F),783 (F),887 (F),890 (F),888 (F),880 (F),852 (F),891 (F),960(F),850(F),893 (F),851 (F),858 (F),871 (F),957 (F),870 (F),958 (F),884 (F),885 (F),886 (F),776 (F),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 (F),861 (F),867 (F),865 (F)

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

बिबि-1 एवं 2- भूमि की प्रकृति एवं वनभूमि से पूरी संरक्षित जंगल सुकष्य वन इन्फ्रस्ट्रक्चर, बीकानेर हल प्रकल्प के कार्यालय से प्राप्त करें।
बिबि-3 से 6- के अर्ध में प्रतिबंधित क्षेत्र है कि प्रस्तावित परियोजना हेतु आवंटित स्थल Battery Point (23.6901983N 86.0644832E) से निकटतम संरक्षित क्षेत्र (Protected Area) तोपखानी कम्पाउण्ड आसपास अवस्थित है, तथा वन, पर्यावरण एवं जलवायु परिवर्तन मंत्रालय भारत सरकार द्वारा पुरस्कार एवं तोपखानी कम्पाउण्ड आसपास को अधिसूचित ESZ के सीमा से बाहर अवस्थित है।
Note- उपरोक्त सुकष्य आवंटक द्वारा संरक्षित अभिलेख एवं GPS Point परत सरकार द्वारा प्रकाशित ESZ के अधिसूचक तथा आवंटित स्थल से निकटतम संरक्षित क्षेत्र (Protected Area) के अलग पर ही गयी है।

Division: DFO Wildlife Hazaribagh
 Letter No. 2058
 Date of issue: 29/11/2021
 Signature: [Signature]
 Name: [Name]
 Divisional Forest Officer
 Wildlife Division, Hazaribagh

[Signature]
 वन विभाग प्रशासक, बीकानेर
 वन एवं पर्यावरण, बीकानेर

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



JHARKHAND STATE POLLUTION CONTROL BOARD

TOWNSHIP ADMINISTRATION BUILDING, HEC COMPLEX, DHURWA, RANCHI - 834004
Telephone: 0651-2400850 (Fax) 2400851/2400852/2401847/2400979/2400139

Ref No.: JSPCB/HO/RNC/CTE-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

1. 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/SELAA/2023-23/2646/2022/366, 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.

3. The consent is granted under section 25 / 26 of the Water (Prevention & Control of Pollution) Act, 1974 and under section 21 of the Air (Prevention & Control of Pollution) Act, 1981 to establish the project in Mauza- Gorabali, P S -Bokaro, District-BOKARO as follows:

Project	Site-Area		Investment (Rs)/ Year	Product & Capacity	Period of CTE
	Plot Nos.	Area			
In Expansion	Industrial Area Plot No. IV/A-7(PM),	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:

1. That, the occupier shall make Work area and transport roads and approach road off the main road concrete/ black top.
2. That, the occupier shall install fixed type water sprinklers to cover all dusty places in the premises to impart water spraying intermittently.
3. That, the occupier shall make all roads pucca and shall maintain a good house keeping by regular cleaning and wetting of the roads and dust prone areas.
4. That, the occupier shall store all raw materials and products under shed and shall as far as practicable, do their processing and transfer under foolproof cover(s).
5. That, the occupier shall 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.
6. 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.
11. 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 develop 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 chimney(s), having height(s) as per Central Pollution Control Board norm.

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

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

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

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

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

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

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

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

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

4. That, this CTE shall not absolve the occupier from making compliance of other statutory prescribed under any law or direction of courts or any other instrument for the time being in force.
5. That, this CTE is being issued on the basis of information/ documents/ certificate submitted by the unit. This CTE will be revoked if any of the information/ documents/ certificates/ undertaking given by the occupier is found false/fictitious/forged in future.

6. This order shall be valid subject to compliance of all other legal requirements applicable to the unit.
7. The State Board reserves the right to revoke, withdraw or make any reasonable variation / change / alteration in condition of this consent.

This is issued with the approval of the competent authority

Yatindra
Kumar Das

Digitally signed by
Yatindra Kumar
Das
Date: 2023.02.23
10:31:56 +05'30'

(Yatindra Kumar Das)
Member Secretary

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

Dated : 2023-02-23

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
Kumar
Das

Digitally signed
by Yatindra
Kumar Das
Date: 2023.02.23
10:31:37 +05'30'

(Yatindra Kumar Das)
Member Secretary

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

Dated : 2024-02-24

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

1. 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/SELAA/2022-23/26462022/366, dated 30.01.2023.
 - (b) The content of Consent to Establish (CTE), vide ref. no. JSPCB/HO/RNC/CTE-12699959/2023/195, 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 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, valid 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.
3. The consent is granted under section 25 / 26 of the Water (Prevention & Control of Pollution) Act, 1974 and under section 21 of the Air (Prevention & Control of Pollution) Act, 1981 to operate the project in Mauza -Gorabali , P S -Bokaro , District -BOKARO , as follows:

Project	Site-Area		Investment (Rs)	Product & Capacity	Period of CTO
	Plot Nos.	Area			Date of issue To

Before Expansion	As per EC	As per EC	576.04 Lacs [as per investment 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:

1. That, the occupier shall make Work area and transport roads and approach road off the main road concrete/ black top.
2. That, the occupier shall install fixed type water sprinklers to cover all dusty places in the premises to impart water spraying intermittently.
3. That, the occupier shall make all roads pucca and shall maintain a good house keeping by regular cleaning and wetting of the roads and dust prone areas.
4. That, the occupier shall store all raw materials and products under shed and shall as far as practicable, do their processing and transfer under foolproof cover(s).
5. That, the occupier shall 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.
6. 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.
10. . 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.

13. 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.

21. 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.

23. 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:

S N	Pollutant	Time Weighted Average	Concentration in Ambient Air	
			Industrial, Residential, Rural and Other Area	Ecologically Sensitive Area (notified by Central Govt.)
(1)	(2)	(3)	(4)	(5)
1.	Sulphur Dioxide (SO ₂), µg/m ³	Annual 24 hours	50 80	20 80
2.	Nitrogen Dioxide (NO ₂), µg/m ³	Annual 24 hours	40 80	30 80
3.	Particulate Matter (size less than 10 µm) or PM ₁₀ , µg/m ³	Annual 24 hours	60 100	60 100
4.	Particulate Matter (size less than 2.5 µm) or PM _{2.5} , µg/m ³	Annual 24 hours	40 60	40 60
5.	Ozone(O ₃), µg/m ³	8 hours 1 hour	100 180	100 180
6.	Lead (Pb) µg/m ³	Annual 24 hours	0.50 1.0	0.50 1.0
7.	Carbon Monoxide (CO) mg/m ³	8 hours 1 hour	02 04	02 04
8.	Ammonia (NH ₃) µg/m ³	Annual 24 hours	100 400	100 400
9.	Benzene (C ₆ H ₆) µg/m ³	Annual	05	05
10.	Benzo(a) Pyrene(BaP) Particulate Phase only ng/m ³	Annual	01	01
11.	Arsenic (As) ng/m ³	Annual	06	06
12.	Nickel (Ni) ng/m ³	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:

S N	Parameter	Standard
1	Particulate Matter	150 mg/Nm ³

- (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:

S N	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:

S N	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.
4. 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.
5. 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.
6. 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.

This is issued with the approval of the Competent authority

Yatindra Kumar Das
 Digitally signed by
 Yatindra Kumar Das
 Date: 2024.02.24
 18:36:43 +05'30'
 (Yatindra Kumar Das)
 Member Secretary

Memo No. : JSPCB/HO/RNC/CTO-
 17957569/2024/283

Dated : 2024-02-24

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 Kumar Das
 Digitally signed
 by Yatindra Kumar Das
 Member Secretary
 Date: 2024.02.24
 18:36:59 +05'30'

Water permission letter from JIADA

झारखण्ड औद्योगिक क्षेत्र विकास प्राधिकार
बोकारो प्रक्षेत्र, बियाडा भवन, बालीडीह, बी०एस०सिटी-14.
email : mulhadasbokaro@gmail.com

पत्रांक :

दिनांक :

सेवा में,

अवर प्रमण्डल पदाधिकारी,
पेय जल एवं स्वच्छता अवर प्रमण्डल
चास,
बोकारो स्टील सिटी ।

विषय:-इकाई के जलापूर्ति के संबंध में।

महाराय,

उपर्युक्त विषय	आपका	दिनांक
आलोक में इकाई सर्वश्री डालमिया सीमेंट (भारत) क्षेत्र, बी०एस०सिटी-14 के 1.50 (एक लाख पचास हजार) लीटर प्रति दिन जल की ।	संख्या-	आपूर्ति

विश्वासभाजन,
डीए
क्षेत्रीय निदेशक
जियाडा, बोकारो प्रक्षेत्र

प्रापांक :

प्रतिलिपि : सर्वश्री डालमिया सीमेंट (भारत)
औद्योगिक क्षेत्र, बी०एस०सिटी-14 को सूचनार्थ प्रेषित ।

संख्या-



क्षेत्रीय निदेशक
जियाडा, बोकारो प्रक्षेत्र

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

Thanking You

P. Muly
13/4/22
Sub-Divisional Officer
DWS Sub-Division, Sub-Division
Bokaro, Bokaro

Memo No. 36

Bokaro/Date 13/4/22

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

P. Muly
13/4/22
Sub-Divisional Officer
DWS Sub-Division, Sub-Division
Bokaro, Bokaro

**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**

1. No. of authorization and date of issue: JSPCB/HO/RNC/HWM-16948442/2024/14 04/03/2024
2. Reference of application(No. and date): 16948442 19/10/2023
3. 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 , Bahadur

Details of Authorisation

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

1. The authorised person shall comply with the provisions of the Environment (Protection) Act, 1986, and the rules made there under.
2. The authorisation or its renewal shall be produced for inspection at the request of an officer authorised by the State Pollution Control Board.
3. The person authorised shall not rent, lend, sell, transfer or otherwise transport the hazardous and other wastes except what is permitted through this authorisation.
4. Any unauthorised change in personnel, equipment or working conditions as mentioned in the application by the person authorised shall constitute a breach of his authorization.

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.
6. 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"
7. It is the duty of the authorised person to take prior permission of the State Pollution Control Board to close down the facility.
8. 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.
10. 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.
13. 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 ensuing 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 CPCB.
4. That, the occupier shall comply with all the conditions laid down in this authorization.
5. 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.
6. 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.

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

Memo No: JSPCB/HO/RNC/HWM-16948442/2024/14
Date: 04/03/2024

Y. K. Das
Member Secretary

Copy To:

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

Yatindra Kumar Das
Digitally signed by Yatindra Kumar Das
Date: 2024.03.04 10:25:35 +05'30'

Y. K. Das
Member Secretary

Annexure: VII**Bokaro Cement Manufacturing Works (Unit of DCBL)****Stack emission monitoring report****On line CEMS monitoring report from October 2025 to March 2026**

On Line CEMS monitoring report of VRM Bag House Stack			
Month	Min.	Max.	Avg.
October-2025	2.2	28.0	13.6
November-2025	3.4	25.1	11.3
December-2025	1.3	22.7	12.4
January-26	3.3	8.4	7.1
February-2026	3.5	10.6	8.8
March-2026	2.4	26.6	11.7
Min.	1.3	8.4	7.1
Max.	3.5	28.0	13.6
Avg.	2.6	19.7	10.8

Manual Stack emission monitoring report VRM Bag House Stack			
Month	Min.	Max.	Avg
October-2025	6.8	12.1	9.1
November-2025	4.9	13.9	9.2
December-2025	4.1	12.2	7.9
January-26	8.0	15.9	12.3
February-2026	4.1	12.2	7.8
March-2026	8.9	17.4	13.0
Min.	4.1	12.1	7.8
Max.	8.9	17.4	13.0
Avg.	6.2	14.2	10.0

JSPCB Norms	30 mg/Nm³
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Stack emission monitoring report month of October 2025 from NABL /JSPCB approved



INSTITUTE FOR ENVIRONMENTAL MANAGEMENT

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 - iem2012@rediffmail.com



TEST REPORT

ULR No.:	T C I 6 1 3 5 2 5 0 0 0 0 0 1 6 9 4															
Discipline:	Chemical					Group: Atmospheric Pollution					Sub-Group: Stack Emission					
Report Issue Date:	11-10-2025										Test Report No.: RN-241/05005S1					
Sample ID:	231008AP15001										Sample Description: Stack Emission					
Challan No./P.O. No.:	4548052326/237										Challan No./P.No. Date: NA					
Name and Contact Details of Customer: Sanjeev Verma, (9264447745) Email id:- verma.sanjeev2@dalmicement.com Bokaro Cement Manufacturing Works, Unit of Dalmia Cement (Bharat) Limited Plot No (V/A-70), Bokaro Industrial Area Ballidih Bokaro Steel City, Bokaro-827014, Jharkhand, India																
Type of Industry: Cement								Condition of Sample: Fit For Test								
Sampling Protocol: IS:11255:2009								Sampling Date: 07-10-2025								
Protocol: CPCB Guideline (L.A ES/80/2013-14) & IS Method 11255 Series																
Sampling Location: Cement Mill Bag House Stack																
Field Meteorological Information A. Temp. (°C): 27 R.H. (%): 63 W.C.: Partly Sunny W.D.: SW to NE																
Location of performance of the Laboratory Activity: IEM Laboratory, Ranchi																
Sample Receiving Date: 08-10-2025					Testing Started: 08-10-2025					Testing Ended: 11-10-2025						

Information obtained from Customer

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)	30
Shape of Stack	Circular	Inner Dimension of Stack (m)	3.7
Construction Material	M5	Pollution Control Device (if any)	Bag House

Flue Gas Temperature (K):	309	Flue Gas Velocity (m/s):	16.6	Flue Gas Volumetric Flow Rate (Nm ³ /hr):	504441.8
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--Test Result--

Sl. NO.	Parameters	Test Methods	Unit	Result	Limite
1.	Particulates Matter (PM)	IS 11255 (Part-1)	mg/Nm ³	6.8	30.0

Dust	Kg/hr	3.4
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Env. Condition of Lab.	Laboratory is maintaining Temperature 22± 2°C and Relative Humidity 65±3 % 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 IS Method 11255 Series.
Remark	Sample Comply with prescribed specification.
Opinion & Interpretation	Not Practiced.
Tested by	Akanksha Sureshbh
Sample Drawn by	Aniket Munda & Team
Disclaimers	<ul style="list-style-type: none"> The results relate only to the item tested, calibrated or sampled. Additions to, deviations, or exclusions from the method is not practised if not mentioned. Results from external providers are not used if not specified.

Specific Contractual Notes:

- The laboratory accepts responsibility for content of this report.
- This report shall not be reproduced except in full, without approval of the IEM.
- This report is intended for only guidance and not for legal purpose or for advertisement.
- Any comments about this report should be communicated in writing within 7 days of its issue.
- Total liability of Institute for Environmental Management will be limited to invoice amount only.
- In case of feedback/complaints, please send an email at iem@rediffmail.com

On the basis of Quality Checked and Technical data verified by the Authorized signatory, the report is issued by the Director of the Organization.

Reviewed by: Authorized Signatory

T. Ahmad (Signature)

(Taufeeq Ahmad, Ranchi) (Dr. S. C. Jain)

Technical Manager

Director

—End of Report—

Stack emission monitoring report month of March 2026 from JSPCB /NABL approved 2025



INSTITUTE FOR ENVIRONMENTAL MANAGEMENT
 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, Harimu Housing Colony,
 Ranchi-834002, Jharkhand, India
 Ph - 8407804253, 8407804251, Email - iem2012@rediffmail.com



TEST REPORT

ULR No.:	T C I 6 1 3 5 2 6 0 0 0 0 0 6 2 3										
Discipline:	Chemical	Group:	Atmospheric Pollution	Sub-Group:	Stack Emission						
Report Issue Date:	14-03-2026			Test Report No.:	RN-24110500451						
Sample ID:	260311AP07001			Sample Description:	Stack Emission						
Challan No./P.O. No.:	4548052326/237			Challan No./ P.No. Date:	10-13-2025						
Name and Contact Details of Customer: Bokaro Cement Manufacturing Works, Unit of Dalmia Cement (Bharat) Limited Plot No IV/A-7(P), Bokaro Industrial Area Balidih Bokaro Steel City, Bokaro-827014, Jharkhand, India Email id - verma.sanjeev2@dalmiacement.com Sanjeev Verma, (9264447245)											
Type of Industry:	Cement			Condition of Sample:	Fit for Test						
Sampling Protocol:	IS:11255-2009			Sampling Date:	10-03-2026						
Protocol: CPCB Guideline (LAIS/R0/2013-14) & IS Method 11255 Series											
Sampling Location: Cement Mill Bag House Stack											
Field Meteorological Information	A. Temp. (°C):	29	R.H. (%):	30	W.C.: Sunny						
Location of performance of the Laboratory Activity: IEM Laboratory, Ranchi											
Sample Receiving Date:	11-03-2026		Testing Started:	11-03-2026							
Testing Ended: 14-03-2026											

Information obtained from Customer

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)	30
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):	365	Flue Gas Velocity (m/s):	10.7	Flue Gas Volumetric Flow Rate (Nm ³ /hr):	513225.0
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-Test Result-

Sl. No.	Parameters	Test Methods	Unit	Result	Limits
1.	Particulates Matter (PM)	IS 11255 (Part-1)	mg/Nm ³	6.4	30.0
Dust			Kg/hr	3.3	

Env. Condition of Lab.	Laboratory is maintaining Temperature 27± 2°C and Relative Humidity 65± 5 % in all testing area as per IS 1904-1966(C).
Abbreviation	MDL - Minimum Detection Limit, HDL - Below Detection Limit
Norms** is Specified	As per the IS Method 11255 Series.
Remark	Sample Comply with prescribed specification.
Opinion & Interpretation	Not Practiced.
Tested by	Anjali Kumari.
Sample Drawn by	Aniket Munda & Team
Disclaimers	<ul style="list-style-type: none"> The results relate only to the item tested, calibrated or sampled. Additions to, deviations, or exclusions from the method is not practiced if not mentioned. Results from external providers are not used if not specified.

Specific Contractual Notes:
 1. The Laboratory accepts responsibility for content of this report.
 2. This report shall not be reproduced except in full, without approval of the MD.
 3. This report is intended for only guidance and not for legal purpose or for advertisement.
 4. Any complaint about this report should be communicated in writing within 7 days of its issue.
 5. Total liability of Institute for Environmental Management will be limited to invoiced amount only.
 6. In case of feedback/ complaints, please send an email at info@iem2012.com
 On the basis of Quality Checked and Technical data verified by the Authorized signatory, the report is issued by the Director of the Organization.

Reviewed by: 
 Authorized Signatory: 
 (Akanksha Soutar) Dy. Technical Manager (Dr. S. C. Jain) Director

---End of Report---

Bokaro Cement Manufacturing Works (Unit of DCBL)

Fugitive dust emission monitoring report

October 2025 to March 2026

Sr. No	Month	Near Mill area $\mu\text{g}/\text{m}^3$	Raw Material Yard $\mu\text{g}/\text{m}^3$	Packing plant $\mu\text{g}/\text{m}^3$	Truck parking area $\mu\text{g}/\text{m}^3$
1	October-2025	658.9	586.4	526.8	845.8
2	November-2025	506.7	598.4	621.5	905.4
3	December-2025	519.2	632.1	721.5	726.2
4	January-2026	532.0	638.8	725.5	822.6
5	February-2026	613.7	567.2	519.8	959.6
6	March-2026	620.8	531.3	523.7	1048.6
	Min.	506.7	531.3	519.8	726.2
	Max.	658.9	638.8	725.5	1048.6
	Avg.	575.2	592.4	606.5	885.4

Fugitive dust Emission monitoring report month of October 2025 from JSPCB /NABL approved lab.

INSTITUTE FOR ENVIRONMENTAL MANAGEMENT
 Corporate Office: A-12, 2nd Floor, Old Bazaar, Main Street, Bangalore, Karnataka 560002, INDIA
 Laboratory: 100, 1st Floor, Old Bazaar, Main Street, Bangalore, Karnataka 560002, INDIA
 Tel: +91 80 4212 4212, Fax: +91 80 4212 4212, Email: info@iem.in

TEST REPORT

Client Name: [Redacted] / Project Name: [Redacted] / Lab Name: [Redacted]
 Report No: [Redacted] / Test Report No: [Redacted]
 Sample No: [Redacted] / Sample Description: [Redacted]
 Date of Test: [Redacted] / Date of Report: [Redacted]

Address of Client: [Redacted]
 Address of Laboratory: [Redacted]

Client's Representative: [Redacted] / Laboratory's Representative: [Redacted]
 Date of Test: [Redacted] / Date of Report: [Redacted]

Sl. No.	Parameter	Test Method No.	Unit	Result	Remark
1	Resuspended Particulate Matter (RPM)	IS 15858:2006	µg/m ³	100	100

Remarks:
 1. The test was conducted in accordance with the test method specified in the report.
 2. The test was conducted in accordance with the test method specified in the report.
 3. The test was conducted in accordance with the test method specified in the report.

Notes:
 1. The test was conducted in accordance with the test method specified in the report.
 2. The test was conducted in accordance with the test method specified in the report.
 3. The test was conducted in accordance with the test method specified in the report.

Signature of Client: [Redacted] / **Signature of Laboratory:** [Redacted]

Date of Report: [Redacted] / **Date of Report:** [Redacted]

Page 1 of 1

INSTITUTE FOR ENVIRONMENTAL MANAGEMENT
 Corporate Office: A-12, 2nd Floor, Old Bazaar, Main Street, Bangalore, Karnataka 560002, INDIA
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TEST REPORT

Client Name: [Redacted] / Project Name: [Redacted] / Lab Name: [Redacted]
 Report No: [Redacted] / Test Report No: [Redacted]
 Sample No: [Redacted] / Sample Description: [Redacted]
 Date of Test: [Redacted] / Date of Report: [Redacted]

Address of Client: [Redacted]
 Address of Laboratory: [Redacted]

Client's Representative: [Redacted] / Laboratory's Representative: [Redacted]
 Date of Test: [Redacted] / Date of Report: [Redacted]

Sl. No.	Parameter	Test Method No.	Unit	Result	Remark
1	Resuspended Particulate Matter (RPM)	IS 15858:2006	µg/m ³	100	100

Remarks:
 1. The test was conducted in accordance with the test method specified in the report.
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 3. The test was conducted in accordance with the test method specified in the report.

Notes:
 1. The test was conducted in accordance with the test method specified in the report.
 2. The test was conducted in accordance with the test method specified in the report.
 3. The test was conducted in accordance with the test method specified in the report.

Signature of Client: [Redacted] / **Signature of Laboratory:** [Redacted]

Date of Report: [Redacted] / **Date of Report:** [Redacted]

Page 1 of 1

INSTITUTE FOR ENVIRONMENTAL MANAGEMENT
 Corporate Office: A-12, 2nd Floor, Old Bazaar, Main Street, Bangalore, Karnataka 560002, INDIA
 Laboratory: 100, 1st Floor, Old Bazaar, Main Street, Bangalore, Karnataka 560002, INDIA
 Tel: +91 80 4212 4212, Fax: +91 80 4212 4212, Email: info@iem.in

TEST REPORT

Client Name: [Redacted] / Project Name: [Redacted] / Lab Name: [Redacted]
 Report No: [Redacted] / Test Report No: [Redacted]
 Sample No: [Redacted] / Sample Description: [Redacted]
 Date of Test: [Redacted] / Date of Report: [Redacted]

Address of Client: [Redacted]
 Address of Laboratory: [Redacted]

Client's Representative: [Redacted] / Laboratory's Representative: [Redacted]
 Date of Test: [Redacted] / Date of Report: [Redacted]

Sl. No.	Parameter	Test Method No.	Unit	Result	Remark
1	Resuspended Particulate Matter (RPM)	IS 15858:2006	µg/m ³	100	100

Remarks:
 1. The test was conducted in accordance with the test method specified in the report.
 2. The test was conducted in accordance with the test method specified in the report.
 3. The test was conducted in accordance with the test method specified in the report.

Notes:
 1. The test was conducted in accordance with the test method specified in the report.
 2. The test was conducted in accordance with the test method specified in the report.
 3. The test was conducted in accordance with the test method specified in the report.

Signature of Client: [Redacted] / **Signature of Laboratory:** [Redacted]

Date of Report: [Redacted] / **Date of Report:** [Redacted]

Page 1 of 1

INSTITUTE FOR ENVIRONMENTAL MANAGEMENT
 Corporate Office: A-12, 2nd Floor, Old Bazaar, Main Street, Bangalore, Karnataka 560002, INDIA
 Laboratory: 100, 1st Floor, Old Bazaar, Main Street, Bangalore, Karnataka 560002, INDIA
 Tel: +91 80 4212 4212, Fax: +91 80 4212 4212, Email: info@iem.in

TEST REPORT

Client Name: [Redacted] / Project Name: [Redacted] / Lab Name: [Redacted]
 Report No: [Redacted] / Test Report No: [Redacted]
 Sample No: [Redacted] / Sample Description: [Redacted]
 Date of Test: [Redacted] / Date of Report: [Redacted]

Address of Client: [Redacted]
 Address of Laboratory: [Redacted]

Client's Representative: [Redacted] / Laboratory's Representative: [Redacted]
 Date of Test: [Redacted] / Date of Report: [Redacted]

Sl. No.	Parameter	Test Method No.	Unit	Result	Remark
1	Resuspended Particulate Matter (RPM)	IS 15858:2006	µg/m ³	100	100

Remarks:
 1. The test was conducted in accordance with the test method specified in the report.
 2. The test was conducted in accordance with the test method specified in the report.
 3. The test was conducted in accordance with the test method specified in the report.

Notes:
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 3. The test was conducted in accordance with the test method specified in the report.

Signature of Client: [Redacted] / **Signature of Laboratory:** [Redacted]

Date of Report: [Redacted] / **Date of Report:** [Redacted]

Page 1 of 1

Bokaro Cement Manufacturing Works (Unit of DCBL)

Continuous Ambient Air Quality Monitoring report from October 2025 to March 2026 (Towards Gorabali Village)

Monthly average CAAQMS report

Month	PM 10	PM 2.5	NO _x	SO ₂	CO
	µg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³
October-2025	43.2	17.4	13.3	3.6	0.2
November-2025	41.9	20.8	9.8	3.2	0.3
Dececeber-2025	44.9	21.0	3.4	2.8	0.4
January-2026	48.6	19.5	3.6	2.1	0.3
February-2026	38.1	18.4	6.1	1.6	0.3
March-2026	42.9	17.2	5.7	2.6	0.3
Min	38.1	17.2	3.4	1.6	0.2
Max	48.6	21.0	13.3	3.6	0.4
Avg	43.3	19.1	7.3	2.6	0.3

Continuous Ambient Air Quality Monitoring report from October 2025 to March 2026 (Near Project Office)

Month	PM-10	PM-2.5	SO ₂	NO _x
	µg/m ³	µg/m ³	µg/m ³	µg/m ³
October-2025	38.5	18.7	6.9	16.4
November-2025	37.7	21.7	6.1	12.6
Dececeber-2025	52.2	18.3	5.2	13.1
January-2026	57.5	16.1	6.2	22.3
February-2026	53.7	34.0	6.4	18.3
March-2026	50.4	19.3	5.7	19.1
Min	37.7	16.1	5.2	12.6
Max	57.5	34.0	6.9	22.3
Avg	48.4	21.3	6.1	17.0

Continuous Ambient air quality monitoring report from October 2025 to March 2026 near Field Hostels

CAAQMS-2 Monthly average monitoring report

Month	PM-10	PM-2.5
	$\mu\text{g}/\text{m}^3$	$\mu\text{g}/\text{m}^3$
October-2025	38.8	11.9
November-2025	44.7	21.2
Dececeber-2025	50.0	22.3
January-2026	61.1	22.2
February-2026	55.7	23.3
March-2026	40.4	15.3
Min	38.8	11.9
Max	61.2	23.4
Avg	48.9	19.0

Ambient Air Quality Monitoring report from October 2025 to March 2026 Khuturi Village

Ambient air quality monitoring report -Khuturi village				
Month	SO2	NOx	PM-10	PM-2.5
	µg/m3	µg/m3	µg/m3	µg/m3
October-2025	12.5	20.3	46.4	20.9
November-2025	15.1	24.4	48.6	22.1
Dececeber-2025	14.0	22.4	52.0	23.4
January-2026	14.9	22.9	52.9	24.1
February-2026	15.7	25.8	47.9	21.7
March-2026	13.5	20.3	47.3	23.3
Min.	12.5	20.3	46.4	20.9
Max.	15.7	25.8	52.9	24.1
Avg.	14.2	22.8	49.3	22.6

Ambient Air Quality Monitoring report Thakur Tand village from October 2025 to March 2026

Ambient air quality monitoring report: Thakur Tand				
Month	SO2	NOx	PM-10	PM-2.5
	µg/m3	µg/m3	µg/m3	µg/m3
October-2025	11.0	17.8	52.6	23.7
November-2025	13.2	21.3	55.1	25.0
Dececeber-2025	12.1	19.4	53.6	24.1
January-2026	13.4	19.7	54.5	24.9
February-2026	14.3	23.2	53.9	24.2
March-2026	14.6	25.4	51.2	32.8
Min.	11.0	17.8	51.2	23.7
Max.	14.6	25.4	55.1	32.8
Avg.	13.1	21.1	53.5	25.8

Ambient Air Quality Monitoring report from October 2025 to March 2026 towards Gorabali Village

Ambient air quality monitoring report: Gorabail village				
Month	SO₂	NO_x	PM-10	PM-2.5
	µg/m³	µg/m³	µg/m³	µg/m³
October-2025	13.1	21.3	50.4	22.7
November-2025	15.7	25.3	52.6	23.8
Dececeber-2025	14.5	23.4	53.8	24.2
January-2026	15.1	23.8	50.8	24.7
February-2026	16.2	27.6	51.8	24.7
March-2026	13.0	20.3	51.2	28.4
Min.	13.0	20.3	50.4	22.7
Max.	16.2	27.6	53.8	28.4
Avg.	14.6	23.6	51.8	24.7

Ambient Air Quality Monitoring report near project office from October 2025 to March 2026

Ambient air quality monitoring report -Near Project office				
Month	SO₂	NO_x	PM-10	PM-2.5
	µg/m³	µg/m³	µg/m³	µg/m³
October-2025	17.2	18	54.7	29.2
November-2025	19.4	31.3	57.2	30.4
Dececeber-2025	18.2	29.3	53.4	31.2
January-2026	18.8	29.7	60.8	31.9
February-2026	19	32.1	65.2	30
March-2026	15.8	21.8	61.4	31.7
Min.	15.8	18	53.4	29.2
Max.	19.4	32.1	65.2	31.9
Avg.	18.0	26.5	58.9	30.7

Ambient Air Quality monitoring report month of March 2026 from NABL Approved lab

INSTITUTE FOR ENVIRONMENTAL MANAGEMENT
 Center Office: A-2, Madhyam, Opp. Jyoti's Park, Sector-16, Gurgaon, Haryana - 122002
 Contact No: 01295 400000, 01295 400001, 01295 400002, 01295 400003
 Email: info@iem.gov.in, iem@iem.gov.in, iem@iem.gov.in

TEST REPORT

Client: **VIJAYANAGAR** Project: **VIJAYANAGAR** Location: **VIJAYANAGAR**
 Report No: **VIJAYANAGAR** Test No: **VIJAYANAGAR**
 Sample No: **VIJAYANAGAR** Date: **VIJAYANAGAR**
 Client's POC: **VIJAYANAGAR** Contact No: **VIJAYANAGAR**

Name and Contact Details of Client: **VIJAYANAGAR**
 Plot No: **VIJAYANAGAR**, Phase: **VIJAYANAGAR**, Location: **VIJAYANAGAR**
 Address: **VIJAYANAGAR**, City: **VIJAYANAGAR**, State: **VIJAYANAGAR**, Pin: **VIJAYANAGAR**
 Contact: **VIJAYANAGAR**, Email: **VIJAYANAGAR**

Information collected from previous test:
 Test No: **VIJAYANAGAR** Location: **VIJAYANAGAR**
 Sample No: **VIJAYANAGAR** Date: **VIJAYANAGAR**

Sampling Parameters: **VIJAYANAGAR**
 Method: **VIJAYANAGAR**
 Frequency: **VIJAYANAGAR**
 Location: **VIJAYANAGAR**

Client's Representative: **VIJAYANAGAR** Name: **VIJAYANAGAR** Designation: **VIJAYANAGAR**
 Name of the person in charge of the Laboratory: **VIJAYANAGAR** Designation: **VIJAYANAGAR**
 Sample No: **VIJAYANAGAR** Test No: **VIJAYANAGAR** Test Date: **VIJAYANAGAR**

Sl. No.	Parameter	Test Method	Unit	Observed	Standard
1	PM10 (µg/m³)	IS 5182 Part 1, 2015	µg/m³	100	150
2	PM2.5 (µg/m³)	IS 5182 Part 1, 2015	µg/m³	50	75
3	SO2 (ppb)	IS 5182 Part 1, 2015	ppb	50	75
4	NO2 (ppb)	IS 5182 Part 1, 2015	ppb	50	75
5	O3 (ppb)	IS 5182 Part 1, 2015	ppb	50	75
6	CO (ppm)	IS 5182 Part 1, 2015	ppm	50	75
7	Lead (µg/m³)	IS 5182 Part 1, 2015	µg/m³	50	75
8	Nickel (µg/m³)	IS 5182 Part 1, 2015	µg/m³	50	75

Lab: **VIJAYANAGAR**
 Address: **VIJAYANAGAR**
 Contact: **VIJAYANAGAR**
 Email: **VIJAYANAGAR**

Remarks:
 1. All the parameters are within the permissible limits.
 2. The test results are subject to the accuracy of the instruments used.
 3. The laboratory is NABL approved for the above mentioned parameters.

Signature: **VIJAYANAGAR** Date: **VIJAYANAGAR**

Page 3 of 3

INSTITUTE FOR ENVIRONMENTAL MANAGEMENT
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4	NO2 (ppb)	IS 5182 Part 1, 2015	ppb	50	75
5	O3 (ppb)	IS 5182 Part 1, 2015	ppb	50	75
6	CO (ppm)	IS 5182 Part 1, 2015	ppm	50	75
7	Lead (µg/m³)	IS 5182 Part 1, 2015	µg/m³	50	75
8	Nickel (µg/m³)	IS 5182 Part 1, 2015	µg/m³	50	75

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5	O3 (ppb)	IS 5182 Part 1, 2015	ppb	50	75
6	CO (ppm)	IS 5182 Part 1, 2015	ppm	50	75
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7	Lead (µg/m³)	IS 5182 Part 1, 2015	µg/m³	50	75
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Signature: **VIJAYANAGAR** Date: **VIJAYANAGAR**

Page 3 of 3

CAAQMS Calibration Certificate for the period of March 2025



SWAN ENVIRONMENTAL PVT. LTD.
ISO 9001 : 2015 CERTIFIED
Plot No. 223 & 22, Swasthik Enclave, Sector-14, Gurgaon, Haryana - 122002, India
Phone: +91-122-4019499, Fax: +91-122-4019500
E-mail: info@swanenv.com, Website: www.swanenv.com

CALIBRATION CERTIFICATE

Certificate No: **SWANWAGMS002L0206001** Date of Issue: **27-03-2025**
 Customer : **M/s. Dabco Cement (Haryana) Ltd. Bahara Cement Manufacturing Works, Bahara, Jharkhand**

Instrument Details

Instrument : PM - 2.5 Analyser	Station Name : SCMW, GANQM
Make : Accom Controls, USA	Date of Calibration : 25-03-2025
Model : DAM-1020	Due Date : 25-03-2026
Serial No : CH1285	

Calibration Details:

Parameter	Standard Value	Measured Value	% of Deviation
PM Value	88.0µg/m ³	88.0µg/m ³	0.00 %

Accepted Tolerance: **± 2 %**
 Result: The Calibration of above instrument is performed and it meets the acceptance criteria.

Calibrated By:

Chandrab Priyanka
Asst. Manager





SWAN ENVIRONMENTAL PVT. LTD.
ISO 9001 : 2015 CERTIFIED
Plot No. 223 & 22, Swasthik Enclave, Sector-14, Gurgaon, Haryana - 122002, India
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E-mail: info@swanenv.com, Website: www.swanenv.com

CALIBRATION CERTIFICATE

Certificate No: **SWANWAGMS002L0206002** Date of Issue: **27-03-2025**
 Customer : **M/s. Dabco Cement (Haryana) Ltd. Bahara Cement Manufacturing Works, Bahara, Jharkhand**

Instrument Details

Instrument : PM - 2.5 Analyser	Station Name : SCMW, GANQM
Make : Accom Controls, USA	Date of Calibration : 25-03-2025
Model : DAM-1020	Due Date : 25-03-2026
Serial No : SH1355	

Calibration Details:

Parameter	Standard Value	Measured Value	% of Deviation
PM Value	87.7µg/m ³	87.7µg/m ³	-0.22 %

Accepted Tolerance: **± 2 %**
 Result: The Calibration of above instrument is performed and it meets the acceptance criteria.

Calibrated By:

Chandrab Priyanka
Asst. Manager





SWAN ENVIRONMENTAL PVT. LTD.
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Phone: +91-122-4019499, Fax: +91-122-4019500
E-mail: info@swanenv.com, Website: www.swanenv.com

CALIBRATION CERTIFICATE

Certificate No: **SWANWAGMS002L0206003** Date of Issue: **27-03-2025**
 Customer : **M/s. Dabco Cement (Haryana) Ltd. Bahara Cement Manufacturing Works, Bahara, Jharkhand**

Instrument Details

Instrument : SO₂ Analyser	Station Name : SCMW, GANQM
Make : Accom Controls, USA	Date of Calibration : 26-03-2025
Serial No : SP-1332	Due Date : 25-03-2026

Calibration Gas Details

SO ₂ Gas : 48 ppm SO₂, Balance N₂	Calibration Station : JAM-000 Make: Swan Technical Services Serial No: SAC-2108-025
---	--

Calibration Gas Cylinder Details:

Details	SO ₂ Gas Cylinder
Serial Number	16664
Expiry Date	Jan-2027


Calibration Details:

Parameter	SO ₂ Calibration	Measured Value	Standard Gas Concentration	Span Calibration Measured Value	% of Deviation
SO ₂	48 ppm	48.0ppm	48 ppm	47.99ppm	-0.21 %

Accepted Tolerance: **± 1 %**
 Result: The Calibration of above instrument is performed and it meets the acceptance criteria.

Calibrated By:

Chandrab Priyanka
Asst. Manager





SWAN ENVIRONMENTAL PVT. LTD.
ISO 9001 : 2015 CERTIFIED
Plot No. 223 & 22, Swasthik Enclave, Sector-14, Gurgaon, Haryana - 122002, India
Phone: +91-122-4019499, Fax: +91-122-4019500
E-mail: info@swanenv.com, Website: www.swanenv.com

CALIBRATION CERTIFICATE

Certificate No: **SWANWAGMS002L0206004** Date of Issue: **27-03-2025**
 Customer : **M/s. Dabco Cement (Haryana) Ltd. Bahara Cement Manufacturing Works, Bahara, Jharkhand**

Instrument Details

Instrument : NO_x Analyser	Station Name : SCMW, GANQM
Make : Accom Controls, USA	Date of Calibration : 26-03-2025
Serial No : 22-0720	Due Date : 23-03-2026

Calibration Gas Details

NO _x Gas : 48 ppm NO, Balance O₂	Calibration Station : JAM-000 Make: Swan Technical Services Serial No: SAC-2108-025
---	--

Calibration Gas Cylinder Details:

Details	NO Gas Cylinder
Serial Number	5481
Expiry Date	Jan-2027

Calibration Details:

Parameter	SO ₂ Calibration	Measured Value	Standard Gas Concentration	Span Calibration Measured Value	% of Deviation
NO _x	48 ppm	47.96ppm	48 ppm	47.96ppm	-0.08 %

Accepted Tolerance: **± 1 %**
 Result: The Calibration of above instrument is performed and it meets the acceptance criteria.

Calibrated By:

Chandrab Priyanka
Asst. Manager



SWAN ENVIRONMENTAL PVT. LTD.
 (ISO 9001 : 2015 CERTIFIED)
 Plot No. 302 & 303, Swan Avenue De De Green Meadows, Hyderabad - 500081, Telangana, India
 Phone: +91-40-42201445, Fax: +91-40-42201446
 Email: info@swanenv.com, Website: www.swanenv.com

CALIBRATION CERTIFICATE

Certificate No: **SWAN/CAQMS/DCSL/2025/009** Date of Issue: **27-03-2025**
 Customer: **M/s. Delta Cement (Bharat) Ltd. Bokaro Cement Manufacturing Works, Bokaro, Jharkhand.**

Instrument Details

Instrument: CO Analyser	Station Name: (BOMW, CAAQMS)
Model: Accom EcoTech, USA	Date of Calibration: 26-03-2025
Serial No: 22-0793	Due Date: 25-06-2026

Calibration Gas Details

Calibration Gas: CO Gas	Calibration Cylinder: AW-5800
40ppm CO, Balance N₂	Make: Swan Technical Services
	Serial No: DIC-3103-028


Calibration Equipment Details


Details	CO Gas Cylinder
Serial Number	2858
Expiry Date	Jan-2027

Calibration Details

Parameter	Zero Calibration		Span Calibration		% of Deviation
	Standard Gas Concentration	Measured Value	Standard Gas Concentration	Measured Value	
CO	0.0ppm	0.0ppm	2.0ppm	2.0ppm	0%

Accepted Tolerance: **± 1%**
 Result: The Calibration of above instrument is performed and it meets the acceptance criteria.

Calibrated By: 
 Chandan Pasley
 Asst. Manager



SWAN ENVIRONMENTAL PVT. LTD.
 (ISO 9001 : 2015 CERTIFIED)
 Plot No. 302 & 303, Swan Avenue De De Green Meadows, Hyderabad - 500081, Telangana, India
 Phone: +91-40-42201445, Fax: +91-40-42201446
 Email: info@swanenv.com, Website: www.swanenv.com

CALIBRATION CERTIFICATE

Certificate No: **SWAN/CAQMS/DCSL/2025/021** Date of Issue: **25-10-2025**
 Customer: **M/s. Delta Cement (Bharat) Ltd. Bokaro Cement Manufacturing Works, Bokaro, Jharkhand.**

Instrument Details

Instrument: PM10 Analyser	Station Name: (BOMW, CAAQMS)
Make: Accom EcoTech, USA	Date of Calibration: 23-10-2025
Model: 9408-1000	Due Date: 23-07-2026
Serial No: UN12006	

Calibration Details

Parameter	Span Calibration		
	Standard Value	Measured Value	% of Deviation
PM10 Value	80µg/m ³	81.0µg/m ³	-0.14%

Accepted Tolerance: **± 1%**
 Result: The Calibration of above instrument is performed and it meets the acceptance criteria.

Calibrated By: 
 Chandan Pasley
 Asst. Manager



CAAQMS Calibration Certificate for the period of December 2025

SWAN ENVIRONMENTAL PVT. LTD.
 (ISO 9001 : 2015 CERTIFIED)
 Plot No. 302 & 303, Swan Avenue De De Green Meadows, Hyderabad - 500081, Telangana, India
 Phone: +91-40-42201445, Fax: +91-40-42201446
 Email: info@swanenv.com, Website: www.swanenv.com

CALIBRATION CERTIFICATE

Certificate No: **SWAN/CAQMS/DCSL/2025/017** Date of Issue: **21-12-2025**
 Customer: **M/s. Delta Cement (Bharat) Ltd. Bokaro Cement Manufacturing Works, Bokaro, Jharkhand.**

Instrument Details

Instrument: PM10.2 Analyser	Station Name: (BOMW, CAAQMS)
Make: Accom EcoTech, USA	Date of Calibration: 22-12-2025
Model: 9408-1000	Due Date: 23-03-2026
Serial No: 09171001	

Calibration Gas Details

Calibration Gas: CO Gas	Calibration Cylinder: AW-5800
40ppm CO, Balance N₂	Make: Swan Technical Services
	Serial No: DIC-3103-028

Calibration Equipment Details

Details	CO Gas Cylinder
Serial Number	2858
Expiry Date	Jan-2027

Calibration Details

Parameter	Zero Calibration		Span Calibration		% of Deviation
	Standard Gas Concentration	Measured Value	Standard Gas Concentration	Measured Value	
CO	0.0ppm	0.0ppm	2.0ppm	2.0ppm	0.0%

Accepted Tolerance: **± 1%**
 Result: The Calibration of above instrument is performed and it meets the acceptance criteria.

Calibrated By: 
 Chandan Pasley
 Asst. Manager



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 (ISO 9001 : 2015 CERTIFIED)
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 Email: info@swanenv.com, Website: www.swanenv.com

CALIBRATION CERTIFICATE

Certificate No: **SWAN/CAQMS/DCSL/2025/023** Date of Issue: **23-12-2025**
 Customer: **M/s. Delta Cement (Bharat) Ltd. Bokaro Cement Manufacturing Works, Bokaro, Jharkhand.**

Instrument Details

Instrument: PM10 Analyser	Station Name: (BOMW, CAAQMS)
Make: Accom EcoTech, USA	Date of Calibration: 22-12-2025
Model: 9408-1000	Due Date: 23-07-2026
Serial No: UN12006	

Calibration Gas Details

Calibration Gas: PM10	Calibration Cylinder: AW-5800
40ppm PM10, Balance N₂	Make: Swan Technical Services
	Serial No: DIC-3103-028

Calibration Equipment Details

Details	PM10 Gas Cylinder
Serial Number	2858
Expiry Date	Jan-2027

Calibration Details

Parameter	Zero Calibration		Span Calibration		% of Deviation
	Standard Gas Concentration	Measured Value	Standard Gas Concentration	Measured Value	
PM10	0.0ppm	0.0ppm	2.0ppm	2.0ppm	0.0%

Accepted Tolerance: **± 1%**
 Result: The Calibration of above instrument is performed and it meets the acceptance criteria.

Calibrated By: 
 Chandan Pasley
 Asst. Manager



LIST OF POLLUTION CONTROL EQUIPMENTS (BAG FILTERS)

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

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

LIST OF POLLUTION CONTROL EQUIPMENTS

S. No.	Location	Description	Application	Design dust Emission (mg/Nm ³)	Volume of bag filter (m ³ /h)	Fan Volume	Outlet dust Emission (mg/Nm ³)
11	533 BF2	Mill feed conveyor	Clinker & Gypsum	10	10000	11500	≤ 30
12	563 BF1	Cement Mill BE feed/ Reject Material	Cement	10	12500	14375	≤ 30
13	563 BF2	Cement Mill BE Top/ Reject Material	Cement	10	10000	11500	≤ 30
14	563 BF3	Cement Mill reject BC/ Reject Material	Cement	10	10000	11500	≤ 30
15	594 BF1	Baghouse Extraction/ Cement	Cement	10	5000	5750	≤ 30
16	594 BF2	Baghouse Extraction/ Cement	Cement	10	5000	5750	≤ 30
17	BRU K12BF1	K12 BF1 for BRU 1 & 2 (With pneumatic dampers)	Coal	10	30000	34500	≤ 30
18	TT9 K12 BF2	K12 BF2 for TT9 (Coal Handling)	Coal	10	12500	14375	≤ 30
19	FBC Hopper K12 BF3	K12 BF3 for FBC (Coal Handling)	Coal	10	7500	8625	≤ 30
20	492 BF3	492 BF3 (492BC2 to 492BC3) TT14	Clinker	10	10000	11500	≤ 30
21	232BF2	Air slide venting	Fly ash	10	4000	4600	≤ 30
22	614BF1	Cement silo cone	Cement	10	4000	4600	≤ 30
23	613BF1,	Cement silo cone	Cement	10	4000	4600	≤ 30
24	595BF1	Cement silo top	Cement	10	7500	8625	≤ 30
25	594BF3	Cement silo top	Cement	10	7500	8625	≤ 30
26	613BF2	Airslide venting	Cement	10	5000	5750	≤ 30
27	613BF3	Airslide venting	Cement	10	6000	6900	≤ 30

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

LIST OF POLLUTION CONTROL EQUIPMENTS

S. No.	Location	Description	Application	Design dust Emission (mg/Nm ³)	Volume of bag filter (m ³ /h)	Fan Volume	Outlet dust Emission (mg/Nm ³)
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
31	647BF2	Packing Plant	Cement	10	35000	40250	≤ 30





Annexure-XI

Air Pollution control equipment's maintenance report for the period of October2025 to March 2026

Line-2	1328	Pollution control	FLTR BAG;SNP BAND,160MM,8400MM	Oct-25	Mechanical	30	NO	32,700
Line-2	1328	Pollution control	FLTR BAG;SNP BAND,160MM,8400MM	Oct-25	Mechanical	20	NO	21,722
Line-2	1328	Pollution control	FLTR BAG;160MM,3660MM; DCBL/L2/3.66	Mar-26	Mechanical	50	NO	15,400
Line-2	1328	Pollution control	FLTR BAG;160MM,3660MM; DCBL/L2/3.66	Mar-26	Mechanical	40	NO	12,320
							Total Line-2	82,142

Compliance of CREP Conditions

BOKARO CEMENT MANUFACTURING WORKS

S.No.	CREP Conditions	Compliance
1	<p>Cement plants/Standalone grinding units, which are not complying* with notified standards, shall do the following to meet the standards:</p> <ul style="list-style-type: none"> ● Augmentation of existing air pollution control devices- by July 2003 ● Replacement of existing air pollution control devices- by July 2004 	<p>M/s. Bokaro Cement Manufacturing Works (Unit of DCBL) comply with all the Stipulated standards given by MoEF CC/ JSPCB. Company has installed bag filter/Bag house as air pollution control device (APCD) in plant to comply the notified standards. Regular monitoring of ambient air quality is being done.</p>
2	<p>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.</p>	<p>Neither the plant is located in Critically Polluted area nor in Urban areas. Plant is located in industrial area. All measures undertaken to keep emission level of PM below the permission limit. The major source of air pollution (i.e. Cement mill) provided with Bag House. Bag Filters and de-dusting/nuisance filters installed in Packing Plant and all material transfer points.</p>
3	<p>The new cement kilns to be accorded NOC/ Environmental clearance w.e.f. 01.04.2003 will meet the limit of 50 mg/Nm³.</p>	<p>Unit is Stand-alone Grinding Unit only and comply with new emission norms.</p>
4	<p>CPCB will evolve load-based standards by December 2003.</p>	<p>This is a Stand-alone grinding unit; Load based standards issued by the MoEF CC is for Kiln only for clinker isation. Hence, this condition is not applicable.</p>
5	<p>CPCB and NCBM will evolve SO₂ and NO_x emission standards by June 2004.</p>	<p>Unit is Stand-alone Grinding Unit only and there will not be SO₂ and NO_x emission during manufacturing process; this condition is not applicable.</p>
6	<p>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 the control of fugitive emission from limestone and coal storage area will be</p>	<p>Unit is Stand-alone Grinding Unit only and there will not be SO₂ and NO_x emission during manufacturing process; this condition is not applicable. To control the fugitive emissions the following measures are adopted</p>

	decided by the National Task Force (NTF) The NTF shall submit its recommendations within three months.	<ul style="list-style-type: none"> ● All belt conveyers and material discharge points are covered, water sprinkling is being done by water sprinklers and water spray tankers. roads are cleaned by road sweeping to control of fugitive dust emission. ● Storage of raw material/cement in storage shed and Silos. ● Concreted internal roads and the sprinkling of water 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. .
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.	Continuous emission monitoring system (CEMS) installed at Cement Mill Stack and real time emission monitoring data 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; plant is Stand-alone Grinding Unit. However, high efficiency Bag House provided for Cement Mill
10	Industries will submit the target date to enhance the utilization of waste material by April 2003.	GU is being 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: XIII

All plant internal roads and work place area cleaned by vacuum road sweeping machine



Raw material and products transported in covered vehicles



Transportation in covered truck



Boundary wall constructed along with thick greenbelt developed act as wind shelter in plant



Covered packing plant

All raw materials and product are stored in covered shed



Slag storage in covered yard



Gypsum stored in covered yard



Clinker storage silo



Cement storage Silo

Dalmia Cement (Bharat) Limited Bokaro

Truck parking area photographs




PUC Certificates of vehicles

Form 59
(New rules 114 (2))


Pollution Under Control Certificate
Authorized by : Government of Rajasthan

Date : 07/03/2026
Time : 10:31:07 PM
Validity upto : 06/03/2027



Certificate No. / Pin : JH00000400010700
Registration No. : JH09B73936
Date of Registration : 28/Apr/2024
Month & Year of Manufacturing : March 2020
Make Model Number : *****
Emission Norms : MHARAT STAGE VI
Fuel : DIESEL
PUC Code : JH000040
GSTIN :
Fees : Rs.300.00
MIL abbreviation : No

Vehicle Photo with Registration plate
60 mm x 30 mm



Sr. No.	Pollutant (as applicable)	Units (as applicable)	Emission limits	Measured Value (upto 2 decimal places)
1	2	3	4	5
Idling Emissions	Carbon Monoxide (CO)	percentage (%)		
	Hydrocarbon, (THC/HC)	ppm		
High idling emissions	CO	percentage (%)		
	HC/PM	ppm	2000 ± 300	
Smoke Density	Lambda	-	1 ± 0.03	
	Light absorption coefficient	1/metre	0.7	0.37

This PUC certificate is system generated through the national register of motor vehicles and does not require any signature.

Note : 1. Vehicle owners to link their mobile numbers to registered vehicles by logging to <https://mva.parivahan.gov.in>


Authorized Signature with stamp of PUC Operator
60mm x 30 mm

GOD BLESS EMISSION TESTING CENTRE

Form 59
(New rules 114 (2))


Pollution Under Control Certificate
Authorized by : Government of Rajasthan

Date : 26/04/2026
Time : 11:39:55 AM
Validity upto : 25/04/2027



Certificate No. / Pin : JH00000710001425
Registration No. : JH09B73936
Date of Registration : 26/May/2024
Month & Year of Manufacturing : March 2024
Make Model Number : *****
Emission Norms : MHARAT STAGE VI
Fuel : DIESEL
PUC Code : JH0000071
GSTIN :
Fees : Rs.300.00
MIL abbreviation : No

Vehicle Photo with Registration plate
60 mm x 30 mm



Sr. No.	Pollutant (as applicable)	Units (as applicable)	Emission limits	Measured Value (upto 2 decimal places)
1	2	3	4	5
Idling Emissions	Carbon Monoxide (CO)	percentage (%)		
	Hydrocarbon, (THC/HC)	ppm		
High idling emissions	CO	percentage (%)		
	HC/PM	ppm	2000 ± 300	
Smoke Density	Lambda	-	1 ± 0.03	
	Light absorption coefficient	1/metre	0.7	0.55

This PUC certificate is system generated through the national register of motor vehicles and does not require any signature.

Note : 1. Vehicle owners to link their mobile numbers to registered vehicles by logging to <https://mva.parivahan.gov.in>

Authorized Signature with stamp of PUC Operator
60mm x 30 mm

M/S MAA KANAKHYA FUELS

Form 59

[See rules 115 (2)]

Pollution Under Control Certificate

Authorised By
Government of Jharkhand

Date : 26/04/2026
Time : 11:33:48 AM
Validity upto : 25/04/2027



Certificate No.	JH00900710001424
Registration No.	J-4090019719
Date of Registration	28/May/2024
Month & Year of Manufacturing	March-2024
Valid Mobile Number	****10097
Emission Norms	BHARAT STAGE VI
Fuel	DIESEL
PUC Code	JH0090071
GSTR#	
Fee	RS.300.00
MIL observation	No

Vehicle Photo with Registration plate
60 mm x 30 mm



Sr. No.	Pollutant (as applicable)	Units (as applicable)	Emission limits	Measured Value (upto 2 decimal places)
1	2	3	4	5
Idling Emissions	Carbon Monoxide (CO)	percentage (%)		
	Hydrocarbon, (THC/HC)	ppm		
High idling emissions	CO	percentage (%)		
	RPM	RPM	2500 ± 200	
	Lambda	-	1 ± 0.03	
Smoke Density	Light absorption coefficient	1/metre	0.7	0.05

This PUC certificate is system generated through the national register of motor vehicles and does not require any signature.

Note : 1. Vehicle owners to link their mobile numbers to registered vehicle by logging to <https://puc.parthvan.gov.in>.

Authorised Signature with stamp of PUC Operator
60mm x 20 mm

M/S. MAA KAMAKHYA FUELS

Annexure-XVII

Fixed type water sprinkler provided in plant for the control of fugitive dust emission



Water fog system installed in plant main gate



Fixed type water sprinkler installed plant main gate entrance road

Regular water sprinkling is being done on plant entrance road and dusty place area by 2 nos water spray tankers



Log book of water spray tanker for the month of October 2025

Water Tanker UP08-1170				Month of October 2025				
Date	Starting Meter	Ending Meter	Volume (Liters)	M.S.D.	Qty	MWD	Location of use for spraying area	Qty
01-10-25	150204	150204	0.00					
02-10-25	150204	150204	0.00					
03-10-25	150204	150204	0.00					
04-10-25	150204	150204	0.00					
05-10-25	150204	150204	0.00					
06-10-25	150204	150204	0.00					
07-10-25	150204	150204	0.00					
08-10-25	150204	150204	0.00					
09-10-25	150204	150204	0.00					
10-10-25	150204	150204	0.00					
11-10-25	150204	150204	0.00					
12-10-25	150204	150204	0.00					
13-10-25	150204	150204	0.00					
14-10-25	150204	150204	0.00					
15-10-25	150204	150204	0.00					
16-10-25	150204	150204	0.00					
17-10-25	150204	150204	0.00					
18-10-25	150204	150204	0.00					
19-10-25	150204	150204	0.00					
20-10-25	150204	150204	0.00					
21-10-25	150204	150204	0.00					
22-10-25	150204	150204	0.00					
23-10-25	150204	150204	0.00					
24-10-25	150204	150204	0.00					
25-10-25	150204	150204	0.00					
26-10-25	150204	150204	0.00					
27-10-25	150204	150204	0.00					
28-10-25	150204	150204	0.00					
29-10-25	150204	150204	0.00					
30-10-25	150204	150204	0.00					

Log book of water spray tanker for the month of March 2026

Water Tanker UP08-1170				Month of March 2026				
Date	Starting Meter	Ending Meter	Volume (Liters)	M.S.D.	Qty	MWD	Location of use for spraying area	Qty
01-03-26	150204	150204	0.00					
02-03-26	150204	150204	0.00					
03-03-26	150204	150204	0.00					
04-03-26	150204	150204	0.00					
05-03-26	150204	150204	0.00					
06-03-26	150204	150204	0.00					
07-03-26	150204	150204	0.00					
08-03-26	150204	150204	0.00					
09-03-26	150204	150204	0.00					
10-03-26	150204	150204	0.00					
11-03-26	150204	150204	0.00					
12-03-26	150204	150204	0.00					
13-03-26	150204	150204	0.00					
14-03-26	150204	150204	0.00					
15-03-26	150204	150204	0.00					
16-03-26	150204	150204	0.00					
17-03-26	150204	150204	0.00					
18-03-26	150204	150204	0.00					
19-03-26	150204	150204	0.00					
20-03-26	150204	150204	0.00					
21-03-26	150204	150204	0.00					
22-03-26	150204	150204	0.00					
23-03-26	150204	150204	0.00					
24-03-26	150204	150204	0.00					
25-03-26	150204	150204	0.00					
26-03-26	150204	150204	0.00					
27-03-26	150204	150204	0.00					
28-03-26	150204	150204	0.00					
29-03-26	150204	150204	0.00					
30-03-26	150204	150204	0.00					

Annexure-XVIII

Ground water level report of surrounding village area from October 2025 to March 2026

Location	Coordinate of Site	Distance from Plant site (KM)	Depth from ground (feet)					
			Month	Oct-2025	Nov-2025	Dec-2025	Jan-2026	Feb-2026
Pakhriatand (Near Anganwadi)	23070'5590"N 86006'2678" E	1	7'8"	8'5"	13'8"	17'8"	19'7"	21'4"
Tupkadi (Near Electric Pole)	23071'3362"N 86006'1573" E	1	6'5"	6'9"	10'9"	16'3"	19'0"	23'8"
Godawali (Near Temple)	23068'7751"N 86006'0031" E	1	2'6"	3'2"	7'2"	8'6"	9'7"	11'2"
Bhutkuru (Near primary School)	23070'4642"N 86005'1418" E	1	9'9"	10'3"	14'3"	17'1"	17'8"	18'7"

Ground water quality analysis report of Khutari village area for the month of October 2025 from JSPCB/NABL approved lab

INSTITUTE FOR ENVIRONMENTAL MANAGEMENT
 Institute for Environmental Management, 45, Sector 10, Gurgaon, Haryana
 Phone: 01292-301000, Fax: 01292-301001, Email: info@iemg.com

TEST REPORT

Client Name: Khutari Village
 Sample No.: 10/25/001
 Date of Sampling: 10/15/2025
 Location: Khutari Village, District: Gurgaon, Haryana

No.	Parameter/Parameter	Unit	Standard	Observed Value	Remarks
1	pH		6.5 - 8.5	7.2	
2	Total Hardness (CaCO ₃)	mg/l	500	120	
3	Calcium Hardness (CaCO ₃)	mg/l	500	80	
4	Magnesium Hardness (CaCO ₃)	mg/l	500	40	
5	Total Dissolved Solids (TDS)	mg/l	500	150	
6	Total Suspended Solids (TSS)	mg/l	500	10	
7	Electrical Conductivity (EC)	µmhos/cm	2500	1200	
8	Chloride (Cl ⁻)	mg/l	250	10	
9	Sulfate (SO ₄ ²⁻)	mg/l	250	10	
10	Nitrate (NO ₃ ⁻)	mg/l	45	10	
11	Nitrite (NO ₂ ⁻)	mg/l	10	0.5	
12	Ammonia Nitrogen (NH ₄ ⁺)	mg/l	1.0	0.1	
13	Iron (Fe)	mg/l	0.3	0.1	
14	Manganese (Mn)	mg/l	0.1	0.05	
15	Copper (Cu)	mg/l	1.0	0.05	
16	Zinc (Zn)	mg/l	3.0	0.1	
17	Lead (Pb)	mg/l	0.05	0.01	
18	Cadmium (Cd)	mg/l	0.01	0.001	
19	Chromium (Cr)	mg/l	0.5	0.05	
20	Fluoride (F ⁻)	mg/l	1.5	0.5	
21	Barium (Ba)	mg/l	1.0	0.1	
22	Selenium (Se)	mg/l	0.05	0.01	
23	Cyanide (CN ⁻)	mg/l	0.05	0.005	
24	Hexachlorocyclopentadiene (HCCCP)	µg/l	0.001	0.0005	
25	Heptachlorocyclopentadiene (HCCPCP)	µg/l	0.001	0.0005	
26	Endrin	µg/l	0.001	0.0005	
27	Dieldrin	µg/l	0.001	0.0005	
28	DDT	µg/l	0.001	0.0005	
29	Chlordane	µg/l	0.001	0.0005	
30	Heptachlor Epoxide	µg/l	0.001	0.0005	
31	Endrin Sulfate	µg/l	0.001	0.0005	
32	Endrin Sulfate Oxide	µg/l	0.001	0.0005	
33	Endrin Sulfate Oxide Oxide	µg/l	0.001	0.0005	
34	Endrin Sulfate Oxide Oxide Oxide	µg/l	0.001	0.0005	
35	Endrin Sulfate Oxide Oxide Oxide Oxide	µg/l	0.001	0.0005	
36	Endrin Sulfate Oxide Oxide Oxide Oxide Oxide	µg/l	0.001	0.0005	
37	Endrin Sulfate Oxide Oxide Oxide Oxide Oxide Oxide	µg/l	0.001	0.0005	
38	Endrin Sulfate Oxide Oxide Oxide Oxide Oxide Oxide Oxide	µg/l	0.001	0.0005	
39	Endrin Sulfate Oxide Oxide Oxide Oxide Oxide Oxide Oxide Oxide	µg/l	0.001	0.0005	
40	Endrin Sulfate Oxide Oxide Oxide Oxide Oxide Oxide Oxide Oxide Oxide	µg/l	0.001	0.0005	

Signature: [Signature]
 Date: 10/20/2025

INSTITUTE FOR ENVIRONMENTAL MANAGEMENT
 Institute for Environmental Management, 45, Sector 10, Gurgaon, Haryana
 Phone: 01292-301000, Fax: 01292-301001, Email: info@iemg.com

TEST REPORT

Client Name: Khutari Village
 Sample No.: 10/25/002
 Date of Sampling: 10/15/2025
 Location: Khutari Village, District: Gurgaon, Haryana

No.	Parameter/Parameter	Unit	Standard	Observed Value	Remarks
1	pH		6.5 - 8.5	7.5	
2	Total Hardness (CaCO ₃)	mg/l	500	150	
3	Calcium Hardness (CaCO ₃)	mg/l	500	100	
4	Magnesium Hardness (CaCO ₃)	mg/l	500	50	
5	Total Dissolved Solids (TDS)	mg/l	500	180	
6	Total Suspended Solids (TSS)	mg/l	500	15	
7	Electrical Conductivity (EC)	µmhos/cm	2500	1500	
8	Chloride (Cl ⁻)	mg/l	250	15	
9	Sulfate (SO ₄ ²⁻)	mg/l	250	15	
10	Nitrate (NO ₃ ⁻)	mg/l	45	15	
11	Nitrite (NO ₂ ⁻)	mg/l	10	0.5	
12	Ammonia Nitrogen (NH ₄ ⁺)	mg/l	1.0	0.1	
13	Iron (Fe)	mg/l	0.3	0.1	
14	Manganese (Mn)	mg/l	0.1	0.05	
15	Copper (Cu)	mg/l	1.0	0.05	
16	Zinc (Zn)	mg/l	3.0	0.1	
17	Lead (Pb)	mg/l	0.05	0.01	
18	Cadmium (Cd)	mg/l	0.01	0.001	
19	Chromium (Cr)	mg/l	0.5	0.05	
20	Fluoride (F ⁻)	mg/l	1.5	0.5	
21	Barium (Ba)	mg/l	1.0	0.1	
22	Selenium (Se)	mg/l	0.05	0.01	
23	Cyanide (CN ⁻)	mg/l	0.05	0.005	
24	Hexachlorocyclopentadiene (HCCCP)	µg/l	0.001	0.0005	
25	Heptachlorocyclopentadiene (HCCPCP)	µg/l	0.001	0.0005	
26	Endrin	µg/l	0.001	0.0005	
27	Dieldrin	µg/l	0.001	0.0005	
28	DDT	µg/l	0.001	0.0005	
29	Chlordane	µg/l	0.001	0.0005	
30	Heptachlor Epoxide	µg/l	0.001	0.0005	
31	Endrin Sulfate	µg/l	0.001	0.0005	
32	Endrin Sulfate Oxide	µg/l	0.001	0.0005	
33	Endrin Sulfate Oxide Oxide	µg/l	0.001	0.0005	
34	Endrin Sulfate Oxide Oxide Oxide	µg/l	0.001	0.0005	
35	Endrin Sulfate Oxide Oxide Oxide Oxide	µg/l	0.001	0.0005	
36	Endrin Sulfate Oxide Oxide Oxide Oxide Oxide	µg/l	0.001	0.0005	
37	Endrin Sulfate Oxide Oxide Oxide Oxide Oxide Oxide	µg/l	0.001	0.0005	
38	Endrin Sulfate Oxide Oxide Oxide Oxide Oxide Oxide Oxide	µg/l	0.001	0.0005	
39	Endrin Sulfate Oxide Oxide Oxide Oxide Oxide Oxide Oxide Oxide	µg/l	0.001	0.0005	
40	Endrin Sulfate Oxide Oxide Oxide Oxide Oxide Oxide Oxide Oxide Oxide	µg/l	0.001	0.0005	

Signature: [Signature]
 Date: 10/20/2025

INSTITUTE FOR ENVIRONMENTAL MANAGEMENT
 Institute for Environmental Management, 45, Sector 10, Gurgaon, Haryana
 Phone: 01292-301000, Fax: 01292-301001, Email: info@iemg.com

TEST REPORT

Client Name: Khutari Village
 Sample No.: 10/25/003
 Date of Sampling: 10/15/2025
 Location: Khutari Village, District: Gurgaon, Haryana

No.	Parameter/Parameter	Unit	Standard	Observed Value	Remarks
1	pH		6.5 - 8.5	7.8	
2	Total Hardness (CaCO ₃)	mg/l	500	180	
3	Calcium Hardness (CaCO ₃)	mg/l	500	120	
4	Magnesium Hardness (CaCO ₃)	mg/l	500	60	
5	Total Dissolved Solids (TDS)	mg/l	500	200	
6	Total Suspended Solids (TSS)	mg/l	500	20	
7	Electrical Conductivity (EC)	µmhos/cm	2500	1800	
8	Chloride (Cl ⁻)	mg/l	250	20	
9	Sulfate (SO ₄ ²⁻)	mg/l	250	20	
10	Nitrate (NO ₃ ⁻)	mg/l	45	20	
11	Nitrite (NO ₂ ⁻)	mg/l	10	0.5	
12	Ammonia Nitrogen (NH ₄ ⁺)	mg/l	1.0	0.1	
13	Iron (Fe)	mg/l	0.3	0.1	
14	Manganese (Mn)	mg/l	0.1	0.05	
15	Copper (Cu)	mg/l	1.0	0.05	
16	Zinc (Zn)	mg/l	3.0	0.1	
17	Lead (Pb)	mg/l	0.05	0.01	
18	Cadmium (Cd)	mg/l	0.01	0.001	
19	Chromium (Cr)	mg/l	0.5	0.05	
20	Fluoride (F ⁻)	mg/l	1.5	0.5	
21	Barium (Ba)	mg/l	1.0	0.1	
22	Selenium (Se)	mg/l	0.05	0.01	
23	Cyanide (CN ⁻)	mg/l	0.05	0.005	
24	Hexachlorocyclopentadiene (HCCCP)	µg/l	0.001	0.0005	
25	Heptachlorocyclopentadiene (HCCPCP)	µg/l	0.001	0.0005	
26	Endrin	µg/l	0.001	0.0005	
27	Dieldrin	µg/l	0.001	0.0005	
28	DDT	µg/l	0.001	0.0005	
29	Chlordane	µg/l	0.001	0.0005	
30	Heptachlor Epoxide	µg/l	0.001	0.0005	
31	Endrin Sulfate	µg/l	0.001	0.0005	
32	Endrin Sulfate Oxide	µg/l	0.001	0.0005	
33	Endrin Sulfate Oxide Oxide	µg/l	0.001	0.0005	
34	Endrin Sulfate Oxide Oxide Oxide	µg/l	0.001	0.0005	
35	Endrin Sulfate Oxide Oxide Oxide Oxide	µg/l	0.001	0.0005	
36	Endrin Sulfate Oxide Oxide Oxide Oxide Oxide	µg/l	0.001	0.0005	
37	Endrin Sulfate Oxide Oxide Oxide Oxide Oxide Oxide	µg/l	0.001	0.0005	
38	Endrin Sulfate Oxide Oxide Oxide Oxide Oxide Oxide Oxide	µg/l	0.001	0.0005	
39	Endrin Sulfate Oxide Oxide Oxide Oxide Oxide Oxide Oxide Oxide	µg/l	0.001	0.0005	
40	Endrin Sulfate Oxide Oxide Oxide Oxide Oxide Oxide Oxide Oxide Oxide	µg/l	0.001	0.0005	

Signature: [Signature]
 Date: 10/20/2025

Ground water quality analysis report of Khutri village area month of March 2026 from JSPCB/NABL approved lab

INSTITUTE FOR ENVIRONMENTAL MANAGEMENT
 Corporate Office: A-8, Sector 17, Gurgaon, Haryana
 Laboratory: 11th Floor, Sector 17, Gurgaon, Haryana
 IN 122001 (INDIA) | TEL: +91 122 4100000 | FAX: +91 122 4100001

TEST REPORT

Client Name: **Khutri Village** | Sample No: **2026/03/001**
 Report No: **2026/03/001** | Date: **11/03/2026**
 Client Address: **Khutri Village, District: Gurgaon, Haryana**
 Name of Laboratory: **Institute for Environmental Management**
 Address: **A-8, Sector 17, Gurgaon, Haryana**
 Accredited to: **ISIRI 10000:2017**

Type of Laboratory: **Water** | Accredited to: **ISIRI 10000:2017**
 Issued by: **Dr. Anshu K. Singh** | Sampling Date: **11/03/2026**
 Sample Location: **Khutri Village**
 Client Representative: **Mr. Anshu K. Singh**
 Location of Performance of the Laboratory: **ISIRI 10000:2017**
 Contact Person: **Dr. Anshu K. Singh** | Phone: **91 98765 43210**

No.	Parameter	Unit	Method No.	Acceptance Criteria	Result	Remarks
1	pH	-	5220	6.5 - 8.5	7.2	OK
2	Total Hardness (CaCO ₃)	mg/L	5010	≤ 500	120	OK
3	Calcium (Ca)	mg/L	5010	≤ 200	45	OK
4	Magnesium (Mg)	mg/L	5010	≤ 100	75	OK
5	Total Dissolved Solids (TDS)	mg/L	5210	≤ 500	120	OK
6	Chloride (Cl)	mg/L	5210	≤ 250	15	OK
7	Sulfate (SO ₄)	mg/L	5210	≤ 250	10	OK
8	Total Solids (TS)	mg/L	5210	≤ 1000	135	OK
9	Iron (Fe)	mg/L	5210	≤ 0.3	0.1	OK
10	Manganese (Mn)	mg/L	5210	≤ 0.1	0.05	OK

Remarks: All parameters are within the permissible limits as per ISIRI 10000:2017. The water is suitable for drinking purposes.

Signature: *Anshu K. Singh* | **Date:** 11/03/2026

INSTITUTE FOR ENVIRONMENTAL MANAGEMENT
 Corporate Office: A-8, Sector 17, Gurgaon, Haryana
 Laboratory: 11th Floor, Sector 17, Gurgaon, Haryana
 IN 122001 (INDIA) | TEL: +91 122 4100000 | FAX: +91 122 4100001

TEST REPORT

Client Name: **Khutri Village** | Sample No: **2026/03/002**
 Report No: **2026/03/002** | Date: **11/03/2026**
 Client Address: **Khutri Village, District: Gurgaon, Haryana**
 Name of Laboratory: **Institute for Environmental Management**
 Address: **A-8, Sector 17, Gurgaon, Haryana**
 Accredited to: **ISIRI 10000:2017**

Type of Laboratory: **Water** | Accredited to: **ISIRI 10000:2017**
 Issued by: **Dr. Anshu K. Singh** | Sampling Date: **11/03/2026**
 Sample Location: **Khutri Village**
 Client Representative: **Mr. Anshu K. Singh**
 Location of Performance of the Laboratory: **ISIRI 10000:2017**
 Contact Person: **Dr. Anshu K. Singh** | Phone: **91 98765 43210**

No.	Parameter	Unit	Method No.	Acceptance Criteria	Result	Remarks
1	pH	-	5220	6.5 - 8.5	7.5	OK
2	Total Hardness (CaCO ₃)	mg/L	5010	≤ 500	150	OK
3	Calcium (Ca)	mg/L	5010	≤ 200	50	OK
4	Magnesium (Mg)	mg/L	5010	≤ 100	100	OK
5	Total Dissolved Solids (TDS)	mg/L	5210	≤ 500	150	OK
6	Chloride (Cl)	mg/L	5210	≤ 250	20	OK
7	Sulfate (SO ₄)	mg/L	5210	≤ 250	10	OK
8	Total Solids (TS)	mg/L	5210	≤ 1000	170	OK
9	Iron (Fe)	mg/L	5210	≤ 0.3	0.1	OK
10	Manganese (Mn)	mg/L	5210	≤ 0.1	0.05	OK

Remarks: All parameters are within the permissible limits as per ISIRI 10000:2017. The water is suitable for drinking purposes.

Signature: *Anshu K. Singh* | **Date:** 11/03/2026

INSTITUTE FOR ENVIRONMENTAL MANAGEMENT
 Corporate Office: A-8, Sector 17, Gurgaon, Haryana
 Laboratory: 11th Floor, Sector 17, Gurgaon, Haryana
 IN 122001 (INDIA) | TEL: +91 122 4100000 | FAX: +91 122 4100001

TEST REPORT

Client Name: **Khutri Village** | Sample No: **2026/03/003**
 Report No: **2026/03/003** | Date: **11/03/2026**
 Client Address: **Khutri Village, District: Gurgaon, Haryana**
 Name of Laboratory: **Institute for Environmental Management**
 Address: **A-8, Sector 17, Gurgaon, Haryana**
 Accredited to: **ISIRI 10000:2017**

Type of Laboratory: **Water** | Accredited to: **ISIRI 10000:2017**
 Issued by: **Dr. Anshu K. Singh** | Sampling Date: **11/03/2026**
 Sample Location: **Khutri Village**
 Client Representative: **Mr. Anshu K. Singh**
 Location of Performance of the Laboratory: **ISIRI 10000:2017**
 Contact Person: **Dr. Anshu K. Singh** | Phone: **91 98765 43210**

No.	Parameter	Unit	Method No.	Acceptance Criteria	Result	Remarks
1	pH	-	5220	6.5 - 8.5	7.8	OK
2	Total Hardness (CaCO ₃)	mg/L	5010	≤ 500	180	OK
3	Calcium (Ca)	mg/L	5010	≤ 200	60	OK
4	Magnesium (Mg)	mg/L	5010	≤ 100	120	OK
5	Total Dissolved Solids (TDS)	mg/L	5210	≤ 500	180	OK
6	Chloride (Cl)	mg/L	5210	≤ 250	25	OK
7	Sulfate (SO ₄)	mg/L	5210	≤ 250	15	OK
8	Total Solids (TS)	mg/L	5210	≤ 1000	195	OK
9	Iron (Fe)	mg/L	5210	≤ 0.3	0.1	OK
10	Manganese (Mn)	mg/L	5210	≤ 0.1	0.05	OK

Remarks: All parameters are within the permissible limits as per ISIRI 10000:2017. The water is suitable for drinking purposes.

Signature: *Anshu K. Singh* | **Date:** 11/03/2026

INSTITUTE FOR ENVIRONMENTAL MANAGEMENT
 Corporate Office: A-8, Sector 17, Gurgaon, Haryana
 Laboratory: 11th Floor, Sector 17, Gurgaon, Haryana
 IN 122001 (INDIA) | TEL: +91 122 4100000 | FAX: +91 122 4100001

TEST REPORT

Client Name: **Khutri Village** | Sample No: **2026/03/004**
 Report No: **2026/03/004** | Date: **11/03/2026**
 Client Address: **Khutri Village, District: Gurgaon, Haryana**
 Name of Laboratory: **Institute for Environmental Management**
 Address: **A-8, Sector 17, Gurgaon, Haryana**
 Accredited to: **ISIRI 10000:2017**

Type of Laboratory: **Water** | Accredited to: **ISIRI 10000:2017**
 Issued by: **Dr. Anshu K. Singh** | Sampling Date: **11/03/2026**
 Sample Location: **Khutri Village**
 Client Representative: **Mr. Anshu K. Singh**
 Location of Performance of the Laboratory: **ISIRI 10000:2017**
 Contact Person: **Dr. Anshu K. Singh** | Phone: **91 98765 43210**

No.	Parameter	Unit	Method No.	Acceptance Criteria	Result	Remarks
1	pH	-	5220	6.5 - 8.5	8.0	OK
2	Total Hardness (CaCO ₃)	mg/L	5010	≤ 500	200	OK
3	Calcium (Ca)	mg/L	5010	≤ 200	70	OK
4	Magnesium (Mg)	mg/L	5010	≤ 100	130	OK
5	Total Dissolved Solids (TDS)	mg/L	5210	≤ 500	200	OK
6	Chloride (Cl)	mg/L	5210	≤ 250	30	OK
7	Sulfate (SO ₄)	mg/L	5210	≤ 250	20	OK
8	Total Solids (TS)	mg/L	5210	≤ 1000	220	OK
9	Iron (Fe)	mg/L	5210	≤ 0.3	0.1	OK
10	Manganese (Mn)	mg/L	5210	≤ 0.1	0.05	OK

Remarks: All parameters are within the permissible limits as per ISIRI 10000:2017. The water is suitable for drinking purposes.

Signature: *Anshu K. Singh* | **Date:** 11/03/2026

Annexure-XIX

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

STP Outlet water quality analysis report from October 2025 to March 2026

STP OUTLET WATER QUALITY ANALYSIS REPORT FROM OCTOBER 2025 TO MARCH 2026					
Parameter	PH	Suspended solids mg/lit	COD mg/lit	BOD mg/lit	Oil & Grease mg/lit.
Norms	5.5-9.0	100	250	30	10
October-2025	8.5	27	48	15.6	BDL
November-2025	8.2	33	52	15.6	BDL
Dececeber-2025	7.9	28	56	17	BDL
January-2026	7.5	17	64	12.9	BDL
February-2026	8.1	24	48	14.4	BDL
March-2026	7.7	22	40	11.3	BDL
Min.	7.5	17	40	11.3	BDL
Max.	8.5	33	64	17	BDL
Avg.	8.0	25.1	51.5	14.4	BDL

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

STP Treated water quality analysis report October 2025



INSTITUTE FOR ENVIRONMENTAL MANAGEMENT
 Corporate office - A-8, Modi Heights, Opp. All India Radio Station, Matu Road, Ranchi, Jharkhand - 834001
 Laboratory Site - H.No. - A-13, Saket Vihar, Near Sohrai Bhawan, Hormu Housing Colony,
 Ranchi-834002, Jharkhand, India
 Ph - 8407804253, 8407804251, Email - iem7013@rediffmail.com



TEST REPORT

I.E.M. No.:	T C I 6 1 3 5 2 5 0 0 0 0 0 1 1 1 1 1	Discipline: Chemical	Group: Pollution & Environment	Sub-Group: Waste Water
Report Issue Date: 11-10-2025		Sample ID: 251008PE02002	Test Report No.: RN-241105005W/W02	
Challan No./P.O. No.: 4548043346/237		Challan No./ P.No. Date: 03-11-2024	Sample Description: Waste Water (STP)	
Name and Contact Details of Customer: Sanjeev Verma, (9264447745) Email id: - verma.sanjeev2@dalmiacement.com Bokaro Cement Manufacturing Works, Unit of Dalmia Cement (Bharat) Limited Plot No IV/A-7(P)1, Bokaro Industrial Area Balidih Bokaro Steel City, Bokaro-827014 Jharkhand India				
Information obtained from customer (if any): N/A				
Type of Industry: Cement		Condition of Sample: Fit For Test		
Sampling Protocol: IS:17614 (Part-1), 2025		Sampling Date: 08-10-2025		
Protocol: CPCB Guideline & IS Method 3025 Series				
Sampling Location: STP PLANT (OUTLET)				
Field Meteorological Information A. Temp. (°C): 28 R.H. (%): 68 W.C.: Partly Sunny W.D.: SW to NE				
Location of performance of the Laboratory Activity: IEM Laboratory, Ranchi				
Sample Receiving date: 08-10-2025		Testing Started: 08-10-2025		Testing Ended: 11-10-2025

---Test Results---

Sl. No.	Tested Parameters	Unit	Method No.	Norma**	Results
1.	pH value at 25°C.	----	IS 3025 (Part-11)	5.5 to 9.0	8.5
2.	Total Suspended Solids (TSS)	mg/l	IS 3025 (Part-17)	100	27
3.	Biological Oxygen Demand (BOD)	mg/l	IS 3025 (Part-44)	30	15.6
4.	Chemical Oxygen Demand (COD)	mg/l	IS 3025 (Part-58)	250	48
5.	Oil & Grease	mg/l	IS 3025 (Part-79)	10	BML(MNL-4.0)

Env. Condition of Lab.	Laboratory is maintaining Temperature 25± 2°C and Relative Humidity 65±5 % to all testing area as per IS 196:1966(C).
Abbreviation	MDL: Minimum Detection Limit, BDL: Below Detection Limit
Norma** is Specified	As per the Environmental (Protection) Rule - 1986
Remark	Sample Comply with prescribed specification.
Opinion & Interpretation	Not Practiced.
Tested by	Mahendranath Mahra
Sample Drawn by	Aniket Mondal & Team
Disclaimers	<ul style="list-style-type: none"> The results relate only to the item tested, calibrated or sampled. Additions to, deviations, or exclusions from the method is not practiced if not mentioned. Results from external providers are not used if not specified.

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 6. In case of feedback complaints, please send an email at iem7013@rediffmail.com
- On the basis of Quality Check and Technical data verified by the Authorized signatory, the report is issued by the Director of the Organization.

Reviewed by _____ Authorized Signatory

(Tausqueer Ahnab) _____
 Technical Manager Director

---End of Report---

STP Treated water quality analysis report from March 2026



INSTITUTE FOR ENVIRONMENTAL MANAGEMENT
 Corporate office - A-8, Modi Heights, Opp. All India Radio Station, Ratu Road, Ranchi, Jharkhand - 834001
 Laboratory Site - H.No. - A-12, Saket Vihar, Near Sohrai Bhowan, Harmu Housing Colony,
 Ranchi-834002, Jharkhand, India
 Ph - 8407804253, 8407804252, Email - iem.2022@rediffmail.com



TEST REPORT

I.E.R. No. 1 1 6 1 4 2 0 2 6											
Discipline: Chemical				Group: Pollution & Environment				Sub-Group: Waste Water			
Report Issue Date: 14-03-2026						Test Report No.: RN-241105005WW07					
Sample ID: 260311PE04007						Sample Description: Waste Water (STP)					
Challan No./P.O. No.: 4548052326/237						Challan No./P.No. Date: 10-12-2025					
Name and Contact Details of Customer: Bokaro Cement Manufacturing Works, Unit of Dalmia Cement (Bharat) Limited Plot No IV/A-7(P)4, Bokaro Industrial Area Bahadli, Bokaro Steel City, Bokaro-827014 Jharkhand India Sanjeev Verma, (9264447745) Email id - verma.sanjeev.2@dalmiacement.com/india											
Information obtained from customer (if any): N/A											
Type of Industry: Cement						Condition of Sample: Fit for Test					
Sampling Protocol: IS: 17614 (Part-1), 2025						Sampling Date: 11-03-2026					
Protocol: CIPB Guideline & IS Method 3035 Series											
Sampling Location: STP PLANT (OUTLET)											
Field Meteorological Information: A. Temp. (°C): 30 R.H. (%): 50 W.C.: Sunny W.D.: NE to SW											
Location of performance of the Laboratory Activity: IEM Laboratory, Ranchi											
Sample Receiving date: 11-03-2026				Testing Started: 11-03-2026				Testing Ended: 14-03-2026			

---Test Results---

Sl. No.	Tested Parameters	Unit	Method No.	Norms**	Results
1.	pH value at 25°C	---	IS 3025 (Part-11)	5.5 to 9.0	7.7
2.	Total Suspended Solids (TSS)	mg/l	IS 3025 (Part-17)	100	22
3.	Biological Oxygen Demand (BOD)	mg/l	IS 3025 (Part-44)	30	22.3
4.	Chemical Oxygen Demand (COD)	mg/l	IS 3025 (Part-58)	250	40
5.	Oil & Grease	mg/l	IS 3025 (Part-39)	10	BDL (MIL 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) Rules - 1986
Remark	Sample Comply with prescribed specification.
Opinion & Interpretation	Not Practiced.
Tested by	Shubham Pushp
Sample Drawn by	Aniket Maundu & Team
Disclaimer	<ul style="list-style-type: none"> The results relate only to the item tested, calibrated or sampled. Additions to, deviations or exclusions from the method is not provided if not mentioned. Results from external providers are not used if not specified.

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	 Director

---End of Report---

Garland drains and collection pit constructed



Settling chamber in Garland drains and collection pit constructed

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

RWH Technical approval obtained from State Ground Water Board

Office of the Director, Ground Water Directorate,
Water Resources Department, Govt. of Jharkhand,
"Abhyantran Bhawan", Kutchery Chowk, Ranchi 834001

Phone/Fax 0651-2217141
E Mail-dirgwatran-wrd-jhra@nic.in

Letter No.: GWD/ 260 / 2023 / 1880..1 Ranchi, dated- 18-05-2023

From,

Director,
Ground Water Directorate,
Water Resources Department,
Govt. of Jharkhand, Ranchi.

To,

Authorized Signatory,
Bokaro Cement Manufacturing Works,
Unit of Dalmia Cement, Bharat Limited,
Plot No. IV(A-7)(P)4,
Industrial Area (BIADA), Bokaro,
Dist. Bokaro-827014, Jharkhand.

Subj- **Technical Approval of "Rain Water Harvesting" Design and Plan for Ground Water Recharging for the project of Bokaro Cement Manufacturing Works, Unit of Dalmia Cement, Bharat Limited.**

Ref- Your letter No.-NIL, dated-28.03.2023, letter No.-NIL, dated-20.04.2023 and letter No.- NIL, dated-16.05.2023

Sir,

With reference to above cited subject your Design & Plan of "Rain Water Harvesting" along with Hydrological report of the area submitted by you to this office envisages to Harvest 38661M³ of Rainfall run-off per annum resulting in Ground Water Recharge of the order of 23197M³ per annum.

The plan comprises of two nos. storage tanks of total capacity 1300M³ ie (500M³ and 800M³) respectively. 5 (five) nos recharge pit of size dia, depth 2M and 3M respectively. As per our perception in addition to storage tank it is advised to construct 1 (One) no. recharge pit of size 15'x15'x12' with 1 (one) no. boring of 8" dia up to 60m depth to be connected with a desilting chamber of size 1.5mx1.5mx1.5m to facilitate Rain Water Harvesting in a better way.

The plan submitted by you for Rain Water Harvesting is Technically Approved subject to the following conditions:-


1. The Rainfall run-off in the premises should get **primary treatment** to make the run-off free from suspended impurities and passing through settling chamber. Necessary chemical treatment should also be undertaken, if required.
2. Sewerage treatment plant (STP) must be established with separate drainage system so that recycled water may be used for cleaning and plantation purposes.

P.T.O.-2

3. Your entire "Rain Water Harvesting" project for Ground Water Recharging must be completed within 90 days of the approval of the plan.
4. The proposed Rain Water Harvesting Recharge Pits must be filled with filter materials of standard specifications and top coarse sand filter must be changed in every alternate year before onset of monsoon.
5. The quality of Ground Water in and around the plant area must be monitored periodically (every 6 months) and the data be necessarily made available to this office and to Jharkhand State Pollution Control Board, Dhurwa, Ranchi.
6. The completion Report of the entire project must be communicated within the stipulated period of 90 days to this office as well as to Jharkhand State Pollution Control Board, immediately after completion of the project.
7. The Guidelines of C.G.W.A. will prevail time to time.
8. "This premises has elaborate Rain Water Harvesting Facility", must also be displayed prominently at the entrance and other places of your plant, in order to sensitize more people about Rain Water Harvesting.

Enclosures :- (1) Technically Approved Rain Water Harvesting Plan.

Yours Sincerely,


Director, 8/11/23
Ground Water Directorate,
Jharkhand, Ranchi.
18-1-23

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 trenches. 1 (One) Recharge pit constructed of Size 15'x 15 x 12' with one no boring of 8" dia up to 60 m depth constructed near packing plant .5 Nos Recharge pit constructed of size dia depth 2 M and 3 M with recharge trenches in plant area . 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”**



(1) Rain water harvesting recharge pit near Packing plant



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



(2) 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



(3) Rain Water Recharge Pit with connecting drain near stacker reclaimers



(4) Rain water recharge pit with connecting drain near mill area



(5) Rain water harvesting pit with Connecting drainage near stacker reclaimer



(6) Rain water recharge pit near packing plant covered with chamber and its connecting drainage



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



BOKARO CEMENT MANUFACTURING WORKS (UNIT OF DCBL)

Noise Level report from October 2025 to March 2025

Near Project office		
Month	Day Time dB(A)	Night Time dB(A)
October-2025	56.0	52.9
November-2025	60.4	54.7
December-2025	61.6	55.6
January-2026	63.6	56.3
February-2026	68.7	57.1
March2026	67.5	55.2
Min.	56.0	52.9
Max.	68.7	57.1
Avg.	63.0	55.3

Thakur Tand Village (Near Aganwadi)		
	Day Time db(A)	Night Time dB(A)
October-2025	48.6	40.0
November-2025	50.4	41.8
December-2025	51.6	42.7
January-2026	52.7	43.8
February-2026	51.5	42.6
March2026	53.4	41.9
Min.	48.6	40.0
Max.	53.4	43.8
Avg.	51.4	42.1

BOKARO CEMENT MANUFACTURING WORKS (UNIT OF DCBL)

Noise Level report from October 2025 to March 2025

Near Gorabali Village (Near Temple)		
	Day Time db(A)	Night Time dB(A)
October-2025	42.8	34.8
November-2025	44.6	36.6
December-2025	45.5	37.8
January-2026	49.4	38.5
February-2026	50.8	36.2
March-2026	45.6	37.3
Min.	42.8	34.8
Max.	50.8	38.5
Avg.	46.5	36.9

Near Khuturi Village (Near School)		
	Day Time db(A)	Night Time dB(A)
October-2025	46.7	32.7
November-2025	48.5	34.5
December-2025	49.4	35.7
January-2026	50.3	36.2
February-2026	49.4	37.8
March-2026	47.8	38.5
Min.	46.7	32.7
Max.	50.3	38.5
Avg.	48.7	35.9

Bokaro Cement Manufacturing Works (Unit of DCBL)

Solar light installed at different location of the plant

NEAR TOILT



NEAR S. T. P.

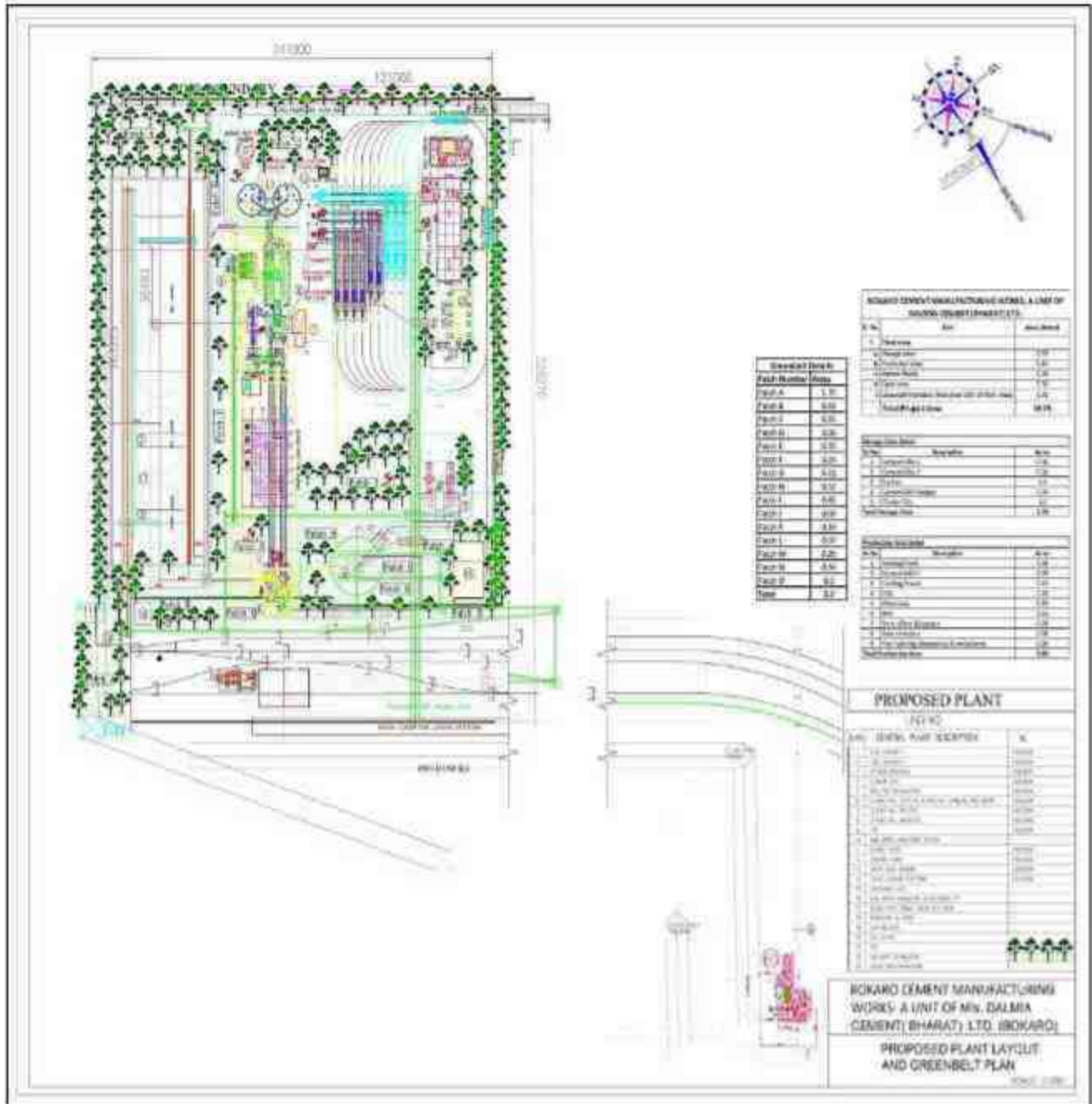


NEAR AAQMS



NEAR PROJECT OFFICE

**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	1865
03.	3rd Year (2024-25)	2.5	2380
04	4 th Year (2025-26) (April 2025-March-2026)	0.4	435
TOTAL		5.2	5230

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
4	4 th Year (2025-26) (April-September)	Chatni, Neem, Mihigini, Mango, Amala, Jamun Nerium, Mohigni.

Green Belt development report







Green Belt development report



BOKARO CEMENT MANUFACTURING WORKS

(UNIT OF DALMIA CEMENT (BHARAT) LIMITED)

Carbon Emission and Carbon Neutrality Action Plan

The MoEFCC Gazette Notification dated 08th October 2025 has set carbon-emission reduction targets for 186 cement plants, including Dalmia Cement (Bharat) Limited, Bokaro. The baseline GHG intensity for Dalmia Cement (Bharat) Limited is already covered in CCTS. Going forward Unit-2 Bokaro Cement Manufacturing Works (Unit of DCBL) will also be covered into CCTS and accordingly target will be provided by MoEFCC & BEE for GHG reduction in cement plant. As the plant recently commissioned and baseline assessment of CCTS happened in FY-23-24 the unit -2 BCMW was not added in current cycle.

Sources of GHG Emissions

Scope 1 (Direct Emissions):

- Coal consumption in FBC
- Company-owned vehicles and hired equipment

Scope 2 (Indirect Emissions):

Purchased grid electricity

Mitigation Plan for GHG Reduction

1. Process Optimization and Energy Efficiency

Key measures include reducing coal usage in the FBC, lowering clinker consumption, increasing rail transport, minimizing vehicle movement, and optimizing operating hours of major equipment.

Examples of completed improvements:

- Coal consumption will be reduced
- Increased clinker silo storage to reduce road transport
- Optimized slag circuit, packing plant compressors, pneumatic systems, and blower usage
- Reduced mill start-stops through better silo-level management

2. Future Process Optimization Initiatives

Planned technical measures includes:

- Baghouse DP reduction in CVRM units
- Wagon loading system optimization

- Feed chute modifications to avoid stoppages
- Energy-efficient impeller replacements
- Installation of VFDs, pneumatic valves, and compressed-air optimization
- Replacement of old fans, lighting optimization, and reduction of pressure drops

3. Energy-Efficiency Improvements

We are implementing targeted energy-efficiency programs, including benchmarking studies for high-consuming equipment, fan optimization, and compressor efficiency improvements. These actions directly reduce GHG emissions by lowering overall energy demand.

ISO 50001:2018 Implementation

DCBL Bokaro implemented ISO 50001 to systematically manage and improve energy performance across the plant.

4. Increasing Renewable Energy Sourcing

The plant is working to significantly increase the share of renewable electricity through rooftop solar, off-site RE procurement, and long-term renewable PPAs. The long-term goal is to transition toward 100% renewable electricity, eliminating grid-related emissions.

Additional initiatives include:

- Installation of solar and LED lighting in the plant and colony
- Regular tree plantation and green-belt development

5. Regular GHG Assessment and Inventory Strengthening

We conduct annual, third-party-assured GHG inventories to identify reduction opportunities from major emission sources and continuously track performance.

6. Objectives of GHG Reduction Program

- Drive innovation through cross-functional involvement
- Improve cost efficiency through energy and resource savings
- Set ambitious reduction targets and track progress
- Conduct internal and external energy audits
- Enhance awareness among employees and stakeholders
- Regularly evaluate, prioritize, and implement GHG-reduction opportunities

Approved On Site Emergency Plan from Chief Inspector of Factories, Jharkhand

Letter No. 7/EP 1025 /2022 अतिरिक्त(प्रमाणित)- 672

OFFICE OF THE CHIEF INSPECTOR OF FACTORIES, JHARKHAND, RANCHI
LABOUR BUILDING, DORANDA, RANCHI-834002
(Email Id- chief1025@gmail.com)

From, **Chief Inspector of Factories, Jharkhand,**
Ranchi.

To, **The Occupier,**
M/s Dalmia Cement (Bharat) Limited,
Unit: Bokaro Cement Manufacturing Works,
Plot No. IV/A-7(P) 4, Bokaro Industrial Area
Ballidih, Bokaro Steel City, Bokaro- 827014.

Ranchi Dated: 08-08-2022

Subject: Recommendation of On site Emergency Plan of M/s Dalmia Cement (Bharat) Limited, Unit: Bokaro Cement Manufacturing Works, Plot No. IV/A 7(P) 4, Bokaro Industrial Area, Ballidih, Bokaro Steel City, Bokaro-827014.

Reference: Your letter dated-02.08.2022.

Sir,

This has reference to your letter date-02.08.2022 along with On-site Emergency Plan which consists of total forty four (44) pages. The submitted emergency response plan has been verified and examined. The above On-site emergency plan is recommended subject to the following conditions: -

1. Regular Mock- drill shall be carried out in the factory at least once in every year and the report shall be made available to the area Inspector of Factories and Chief Inspector of Factories.
2. The safety audit shall be conducted by experienced competent person/Agency/ Institutions. The safety audit report, health & safety policy, Hazard analysis report & fire load calculation report shall be submitted.
3. The Emergency Plan will be up-dated and revised as per modification in the plant.
4. Adequate arrangement of medical/relief facilities (first aid equipments etc.) shall be provided and maintained in the emergency control room.
5. Telephone number of key persons to be noted and displayed in the central control room.
6. The Independent power back-up facility for Emergency Control Room shall be provided.

Encl: A copy of the recommended plan is enclosed herewith.

Yours faithfully,

[Signature]
Chief Inspector of Factories, Jharkhand,
Ranchi

Annexure: XXVIII

Details of PPEs issued for the period of October 2025 to March 2026

Description of PPEs	PPEs Issued
PPEs issued for the period of October 2025 to March 2026.	
safety Helmet	534
Reflective Jackets	1500
Ear Plug	469
Safety Shoe	1257
Dust mask	2405
Hand Gloves	2682
clear Glass	177

MEDICAL HEALTH CHECKUP REPORT FY 2025-2026

SL.NO	EMPLOYEE CODE	EMPLOYEE NAME	FUNCTION	DESIGNATION	HEALTH CHECK-UP DATE	NEXT DUE DATE	IDENTIFICATION MARK
1	10001643	Sanjay Kumar Das	CEM Manufacturing_Mechanical	Senior Tradesman	9/20/2025	9/20/2026	Cut Mark On LT Nose
2	10001645	Ramnayan Yadav	CEM Logistics	Senior Loco Driver	9/19/2025	9/19/2026	Cut Mark On Fore Head
3	10001646	Ashjit Roy	CEM Logistics	Senior Pointsman	9/19/2025	9/19/2026	Mole on RT Arm
4	10001647	Sadananda Mahato	CEM Logistics	Pointsman	9/20/2025	9/20/2026	Mole on LT Cheek
5	10001649	Rajesh Kumar Khare	CEM Logistics	Senior Yard Master	9/19/2025	9/19/2026	Black Mole On Nose
6	10001650	Mukesh Vishwakarma	CEM Logistics	Yard Master	9/19/2025	9/19/2026	Mole On LT Palm
7	10001651	Dilip Singh	CEM Logistics	Loco Driver	9/19/2025	9/19/2026	Cut mark on RT index Finger
8	10001654	Lal Mani Yadav	CEM Logistics	Senior Loco Driver	9/20/2025	9/20/2026	Burn on RT Hand
9	10001655	Anil Singh Yadav	CEM Manufacturing_Mechanical	Operator	9/19/2025	9/19/2026	Cut mark on RT hand
10	10001656	Mahendra Prasad	CEM Manufacturing_Production & Process	Operator	9/19/2025	9/19/2026	Mole On Lt Cheek
11	10001657	Kamendra Kumar Saket	CEM Commercial	Supervisor	9/20/2025	9/20/2026	Mole On Nose
12	10001658	Anubhavi Sushil	CEM Commercial	Senior Supervisor	9/20/2025	9/20/2026	Cut Mark on RT Leg
13	10001659	Ajay Kumar Chaubey	CEM Human Relations_OHC	Senior Lab Technician	9/20/2025	9/20/2026	Mole On RT Palm
14	10001660	Vinod Kumar Pandey	CEM Human Relations_OHC	Pharmacist	9/19/2025	9/19/2026	Mole on Rt Thumb
15	10001662	Shrawan Kumar Singh	CEM Manufacturing_Electrical	Senior Tradesman	9/19/2025	9/19/2026	Cut mark on LT eyebrow
16	10001664	Vijay Bahadur Singh	CEM Manufacturing_Mechanical	Junior Tradesman	9/19/2025	9/19/2026	Burn on LT Elbow
17	10001665	Rajesh Prasad	CEM Manufacturing_Mechanical	Junior Tradesman	9/20/2025	9/20/2026	Cut mark LT Leg
18	10001666	Vinod Kumar Singh	CEM Manufacturing_Mechanical	Tradesman	9/19/2025	9/19/2026	Cut mark on Neck
19	10001667	Raj Rakhn Saket	CEM Manufacturing_Electrical	Machinery Attendant	9/19/2025	9/19/2026	Mole on RT Wrist
20	10001668	Nagendra Singh	CEM Manufacturing_Electrical	Tradesman	9/19/2025	9/19/2026	Cut mark on RT Eyebrow
21	10001669	Anup Kumar Jha	CEM Manufacturing_Mechanical	Machinery Attendant	9/19/2025	9/19/2026	Cut mark On Nose
22	10001670	Rugraj Gocher	CEM Manufacturing_Mechanical	Junior Tradesman	9/20/2025	9/20/2026	Cut mark on Rt Eyebrow
23	10001671	Tareq Ahmed	CEM Manufacturing_Mechanical	Tradesman	9/20/2025	9/20/2026	Mole on RT Wrist
24	10001672	Sanjay Verma	CEM Manufacturing_Mechanical	Junior Tradesman	9/19/2025	9/19/2026	Cut Mark on RT Eyebrow
25	10001675	Munna Singh	CEM Manufacturing_Mechanical	Machinery Attendant	9/20/2025	9/20/2026	Black mole on neck
26	10001676	Hridayanand Pandey	CEM Manufacturing_Production & Process	Junior Tradesman	9/19/2025	9/19/2026	Cut mark on RT face
27	10001677	Prem Narayan Tomar	CEM Manufacturing_Mechanical	Tradesman	9/19/2025	9/19/2026	Mole on RT CHEEK
28	10001678	Dharmendra Singh	CEM Manufacturing_Mechanical	Junior Tradesman	9/19/2025	9/19/2026	Mole on LT Eyebrow
29	10001679	Dilip Kumar Singh	CEM Manufacturing_Mechanical	Junior Tradesman	9/19/2025	9/19/2026	Cut mark on RT Elbow
30	10001680	Rakesh Singh	CEM Manufacturing_Mechanical	Junior Tradesman	9/22/2025	9/22/2026	Cut mark on Fore head
31	10001681	Amresh Pratap Singh	CEM Manufacturing_Mechanical	Junior Tradesman	9/19/2025	9/19/2026	Mole on LT Nose
32	10001682	Sudhanshu Shekhar	CEM Manufacturing_Mechanical	Senior Tradesman	9/19/2025	9/19/2026	Mole on RT Ear
33	10001683	Kalash Kumar Singh	CEM Manufacturing_Production & Process	Machinery Attendant	9/19/2025	9/19/2026	Mole on Forehead
34	10001684	Mithlesh Kumar Singh	CEM Manufacturing_Mechanical	Junior Tradesman	9/19/2025	9/19/2026	Mole on Lower Lip
35	10001685	Mukteshwar Prasad Singh	CEM Commercial_Store	Junior Assistant	9/20/2025	9/20/2026	Mole on LT Eyebrow
36	10001686	Om Singh	CEM Manufacturing_Mechanical	Machinery Attendant	9/19/2025	9/19/2026	Mole on LT Cheek
37	10001687	Vikash Ranjan Singh	CEM Manufacturing_Production & Process	Supervisor II	9/19/2025	9/19/2026	Mole On Lt Chest
38	10001688	Dharmendra Kumar Singh	CEM Manufacturing_Packing	Helper	9/20/2025	9/20/2026	Mole On Lt Ear
39	10001690	Anirudh Singh	CEM Manufacturing_Mechanical	Machinery Attendant	9/19/2025	9/19/2026	Black Spot on RT Shoulder
40	10001691	Sushil Kumar Singh	CEM Manufacturing_Mechanical	Machinery Attendant	9/19/2025	9/19/2026	Cut mark on RT eyebrow
41	10001692	Baldev Ravi Das	CEM Manufacturing_Mechanical	Machinery Attendant	9/20/2025	9/20/2026	Mole on RT Wrist
42	10001693	Mukul Prasad Singh	CEM Manufacturing_Mechanical	Machinery Attendant	9/19/2025	9/19/2026	Cut mark on RT Eyebrow
43	10001694	Suresh Singh	CEM Manufacturing_Mechanical	Machinery Attendant	9/19/2025	9/19/2026	Mole on RT Palm
44	10001696	Awadhesh Prasad Singh	CEM Infrastructure & Facilities_Operation	Assistant	9/20/2025	9/20/2026	Mole on LT Chest
45	10001697	Chandrika Singh	CEM Manufacturing_Electrical	Machinery Attendant	9/20/2025	9/20/2026	Black mole on LT Neck
46	10001698	Satyawan Singh	CEM Manufacturing_Quality	Assistant - II	9/20/2025	9/20/2026	Black Mole On Neck
47	10001699	Prem Nath Singh	CEM Manufacturing_Quality	Assistant - II	9/19/2025	9/19/2026	Cut Mark On Lt Eyebrow
48	10001700	Pravesh Kumar Singh	CEM Manufacturing_Quality	Junior Assistant	9/22/2025	9/22/2026	Cut Mark On Rt Eyebrow
49	10001701	Kedar Nath Singh	CEM Manufacturing_Production & Process	Junior Tradesman	9/20/2025	9/20/2026	Black Mole On Neck
50	10001702	Vishwa Pratap Singh	CEM Logistics	Assistant	9/20/2025	9/20/2026	Cut Mark on Fore-Head

MEDICAL HEALTH CHECKUP REPORT FY 2025-2026

51	10001703	Binod Kumar Singh	CEM Manufacturing_Packing	Supervisor II	9/20/2025	9/20/2026	Mole on LT side Neck
52	10001704	Vin Bahadur Singh	CEM Manufacturing_Mechanical	Machinery Attendant	9/20/2025	9/20/2026	Black Mole on LT Neck
53	10001705	Kamakhya Narayan Singh	CEM Commercial_Store	Junior Assistant	9/19/2025	9/19/2026	Black mole on RT Chest
54	10001706	Bikash Ravidas	CEM Manufacturing_Production & Process	Senior Supervisor	9/20/2025	9/20/2026	Mole On Lt.Head
55	10001707	Abhay Kumar Singh	CEM Manufacturing_Packing	Junior Assistant	9/24/2025	9/24/2026	Cut Mark on RT Leg
56	10001708	Amit Kumar Singh	CEM Logistics	Junior Assistant	9/20/2025	9/20/2026	Mole on Lower Lip
57	10001709	Nisamber Singh	CEM Commercial	Supervisor - II	9/19/2025	9/19/2026	Cut Mark on Fore-Head
58	10001710	Randhir Singh	CEM Logistics	Helper	9/20/2025	9/20/2026	Cut mark on Neck
59	10001711	Raj Kumar Singh	CEM Commercial	Junior Assistant	9/20/2025	9/20/2026	Cut mark on LT eyebrow
60	10001712	Janardan Singh	CEM Commercial	Junior Assistant	9/20/2025	9/20/2026	Cut Mark On Forehead
61	10001713	Birendra Nath Singh	CEM Infrastructure & Facilities_Operations	Junior Assistant	9/19/2025	9/19/2026	Mole on Nose
62	10001714	Ajay Kumar Singh	CEM Infrastructure & Facilities_Operations	Supervisor	9/19/2025	9/19/2026	Wound Mark On RT hand
63	10001715	Nirajan Singh	CEM Manufacturing_Packing	Junior Assistant	9/20/2025	9/20/2026	Black mole on Chest
64	10001716	Sangram Singh	CEM Growth & Expansion_Projects_Civil	Assistant	9/19/2025	9/19/2026	Cut Mark on LT hand
65	10001717	Arjun Lal Singh	CEM Infrastructure & Facilities_Operations	Assistant	9/19/2025	9/19/2026	Black Mole On Abdomen
66	10001718	Samresh Singh	CEM Infrastructure & Facilities_Operations	Assistant	9/19/2025	9/19/2026	Mole on Neck
67	10001719	Shalendra Singh	CEM Commercial	Junior Assistant	9/20/2025	9/20/2026	Cut mark on Nose
68	10001720	Rana Pratap Singh	CEM Commercial	Assistant - II	9/19/2025	9/19/2026	Black mole on LT Chest
69	10001721	Ram Prakash Singh	CEM Commercial_Store	Assistant II	9/20/2025	9/20/2026	RT Eye Blind Impaired
70	10001722	Trilok Nath Singh	CEM Commercial_Store	Junior Assistant	9/19/2025	9/19/2026	Cut mark on LT Chest
71	10001723	Shatrughan Singh	CEM Commercial	Supervisor- II	9/19/2025	9/19/2026	Mole on RT Cheek
72	10001724	Tulsi Prasad Singh	CEM Commercial	Supervisor	9/19/2025	9/19/2026	Black mole on Chest
73	10001725	Ramayan Singh	CEM Manufacturing_Packing	Supervisor II	9/20/2025	9/20/2026	Mole on LT Eye
74	10001726	Prem Sagar Singh	CEM Manufacturing_Packing	Supervisor II	9/19/2025	9/19/2026	Cut mark on LT Knee
75	10001727	Arun Kumar Singh	CEM Manufacturing_Packing	Junior Assistant	9/20/2025	9/20/2026	Cut Mark On Fore Head
76	10001728	Sheetal Kumar Kashyap	CEM Manufacturing_Mechanical	Tradesman	9/19/2025	9/19/2026	Mole On Rt.Chest
77	10001729	Nand Kishore Sahu	CEM Manufacturing_Mechanical	Junior Tradesman	9/19/2025	9/19/2026	Mole On Rt.Middle Finger
78	10001730	Sushil Kumar Singh	CEM Manufacturing_Mechanical	Tradesman	9/19/2025	9/19/2026	Mole On Lt.Shoulder
79	10001731	Manoj Kumar Tripathi	CEM Manufacturing_Mechanical	Tradesman	9/20/2025	9/20/2026	Cut Mark On Lt.Foot
80	10001732	Chandrasekhar Banerjee	CEM Manufacturing_Technical Cell	Tradesman	9/19/2025	9/19/2026	Cut Mark On Forehead
81	10001733	Jayanti Prasad Patil	CEM Manufacturing_Mechanical	Senior Tradesman	9/20/2025	9/20/2026	Mole On LT side Neck
82	10001734	Vimlesh Singh	CEM Manufacturing_Mechanical	Tradesman	9/20/2025	9/20/2026	Cut mark LT Leg
83	10001735	Akhilesh Poddar	CEM Manufacturing_Mechanical	Junior Tradesman	9/19/2025	9/19/2026	Mole on RT Cheek
84	10001737	Sohan Lal Yadav	CEM Infrastructure & Facilities_Operations	Senior Assistant	9/20/2025	9/20/2026	Black mole on RT Chest
85	10001739	Sukhendra Singh	CEM Manufacturing_Electrical	Helper	9/19/2025	9/19/2026	Black Mole On Lt.Hand
86	10001740	Jay Bahadur Singh	CEM Manufacturing_Mechanical	Senior Draughtsman	9/20/2025	9/20/2026	Black mole on LT Chest
87	10001742	Sanjay Kumar Dwivedi	CEM Manufacturing_Instrumentation	Junior Tradesman	9/20/2025	9/20/2026	Cut Mark On Forehead
88	10001743	Sujiv Kumar Das	CEM Manufacturing_Production & Process	Senior Tradesman	9/19/2025	9/19/2026	Cut mark on LT Thigh
89	10001744	Mohan Singh	CEM Manufacturing_Mechanical	Tradesman	9/19/2025	9/19/2026	Mole on RT Forehead
90	10001745	Sangram Singh	CEM Manufacturing_Instrumentation	Senior Tradesman	9/20/2025	9/20/2026	Black Mole on LT Upper Lip
91	10001747	Anli Kumar Sinha	CEM Manufacturing_Electrical	Junior Tradesman	9/20/2025	9/20/2026	Mole on RT Face
92	10001748	Praween Kumar Tiwari	CEM Infrastructure & Facilities_Operations	Tradesman	9/19/2025	9/19/2026	Cut mark on nose
93	10001749	Mo Tauqeer Azam	CEM Manufacturing_Production & Process	Tradesman	9/20/2025	9/20/2026	Mole on LT Eyebrow
94	10001750	Mohammad Mustakem	CEM Manufacturing_Mechanical	Junior Tradesman	9/20/2025	9/20/2026	Black mole on LT hand
95	10001751	Rajendra Singh	CEM Manufacturing_Mechanical	Junior Tradesman	9/19/2025	9/19/2026	Mole on Neck
96	10001752	Noor Illahi Mallik	CEM Manufacturing_Production & Process	Junior Tradesman	9/20/2025	9/20/2026	Black Mole On Neck
97	10001753	Gaurav Singh	CEM Manufacturing_Instrumentation	Senior Tradesman	9/19/2025	9/19/2026	Cut mark on RT Forehead
98	10001754	Rajesh Kumar Sharma	CEM Manufacturing_Electrical	Senior Tradesman	9/20/2025	9/20/2026	Mole on RT Forehead
99	10001755	Sanju Prasad	CEM Manufacturing_Production & Process	Junior Tradesman	9/19/2025	9/19/2026	Mole on RT Neck
100	10001756	Sanjay Kumar	CEM Manufacturing_Mechanical	Tradesman	9/19/2025	9/19/2026	Mole on RT CHEEK

MEDICAL HEALTH CHECKUP REPORT FY 2025-2026

101	10001757	Sanjay Kumar Singh	CEM Manufacturing_Mechanical	Tradesman	9/20/2025	9/20/2026	Burnmark on LT Wrist
102	10001758	Rohit Kumar Upadhyay	CEM Manufacturing_Instrumentation	Tradesman	9/19/2025	9/19/2026	Cut mark on LT Face
103	10001759	Dinesh Kumar Dahiya	CEM Manufacturing_Mechanical	Junior Tradesman	9/19/2025	9/19/2026	Cut Mark On Forehead
104	10001760	Munni Lal	CEM Manufacturing_Mechanical	Tradesman	9/19/2025	9/19/2026	Mole on RT Leg
105	10001761	Ashok Kumar	CEM Manufacturing_Mechanical	Tradesman	9/26/2025	9/26/2026	Blackmole on LT Eye
106	10001762	Aditya Pratap Singh	CEM Manufacturing_Mechanical	Tradesman	9/19/2025	9/19/2026	Cut mark on RT Leg
107	10001763	Ashwani Kumar Verma	CEM Manufacturing_Mechanical	Junior Tradesman	9/19/2025	9/19/2026	Mole On RT Arm
108	10001764	Mukesh Kumar Madhesiya	CEM Manufacturing_Mechanical	Tradesman	9/20/2025	9/20/2026	Wound mark on RT Leg
109	10001765	Dinesh Kumar Gupta	CEM Manufacturing_Mechanical	Junior Tradesman	9/19/2025	9/19/2026	Mole on Nose
110	10001767	Pawan Kumar	CEM Manufacturing_Packing	Assistant II	9/19/2025	9/19/2026	Scar on LT Arm
111	10001768	Kundan Baitha	CEM Manufacturing_Mechanical	Senior Tradesman	9/20/2025	9/20/2026	Mole on LT Hand
112	10001769	Kapilshwar Singh	CEM Finance & Accounts_Operations	Helper	9/20/2025	9/20/2026	Cut Mark On Forehead
113	10001770	Kandhai Prasad Sahu	CEM Manufacturing_Mechanical	Tradesman	9/20/2025	9/20/2026	Cut mark on LT Hand
114	10001771	Panch Ram Bhardwaj	CEM Manufacturing_Mechanical	Senior Tradesman	9/19/2025	9/19/2026	Cut mark on RT Palm
115	10001773	Dwijesh Dwivedi	CEM Manufacturing_Quality	Tester Cum Gauger	9/19/2025	9/19/2026	Mole On Rt Cheek
116	10001774	Pawan Kumar Singh	CEM Commercial	Junior Assistant	9/19/2025	9/19/2026	Black mole on forehead
117	10001775	Neeraj Kumar Singh	CEM Commercial	Junior Assistant	9/20/2025	9/20/2026	Cut mark on Rt Eyebrow
118	10001776	Akshay Kumar Singh	CEM Commercial	Assistant - II	9/19/2025	9/19/2026	Black mole on RT Palm
119	10001777	Gautam Kumar Singh	CEM Commercial	Assistant - II	9/20/2025	9/20/2026	Cut mark on LT Eye Lid
120	10001778	Purushottam Kumar Mishra	CEM Manufacturing_Packing	Assistant - II	9/19/2025	9/19/2026	Black mole on LT Ear
121	10001780	Anil Kumar Singh	CEM Manufacturing_Mechanical	Tradesman	9/20/2025	9/20/2026	Mole on RT wrist
122	10001781	Md. Raish Mansoori	CEM Manufacturing_Instrumentation	Tradesman	9/20/2025	9/20/2026	Cut mark on LT eyebrow
123	10001782	Satyendra Kumar Singh	CEM Manufacturing_Mechanical	Junior Operator	9/19/2025	9/19/2026	Cut Mark On Forehead
124	10001783	Brij Kishor Singh	CEM Manufacturing_Mechanical	Junior Tradesman	9/20/2025	9/20/2026	Cut mark on RT face
125	10001784	Manoj Kumar Shukla	CEM Logistics	Assistant - II	9/19/2025	9/19/2026	Cut mark on Nose
126	10001785	Jay Kishor Prasad	CEM Manufacturing_Mechanical	Tradesman	9/20/2025	9/20/2026	Black Mole on Face
127	10001786	Krishan Bahadur Singh	CEM Commercial	Assistant - II	9/19/2025	9/19/2026	Cut mark on LT Foot
128	10001787	Ravindra Shukla	CEM Manufacturing_Mechanical	Tradesman	9/20/2025	9/20/2026	Cut on RT middle finger
129	10001788	Krishna Pal Singh	CEM Manufacturing_Mechanical	Junior Tradesman	9/19/2025	9/19/2026	Black mole on neck
130	10001789	Santosh Gupta	CEM Manufacturing_Mechanical	Junior Tradesman	9/19/2025	9/19/2026	Cut mark on RT Eyebrow
131	10001790	Asha Ram Soni	CEM Manufacturing_Mechanical	Tradesman	9/20/2025	9/20/2026	Black Mole Near RT eye
132	10001791	Prabhakar Prasad Dwivedi	CEM Human Relations_Operations	Supervisor	9/19/2025	9/19/2026	Cut Mark On Fore Head
133	10001792	Vivek Pandey	CEM Commercial_Store	Assistant II	9/19/2025	9/19/2026	Mole on RT Palm
134	10001793	Pravin Kumar Pandey	CEM Manufacturing_Mechanical	Tradesman	9/19/2025	9/19/2026	Cut mark on Chin
135	10001794	Alok Tiwari	CEM Manufacturing_Mechanical	Junior Tradesman	9/20/2025	9/20/2026	Black mole on LT Arm
136	10001795	Ganesh Kumar Saranker	CEM Manufacturing_Mechanical	Junior Tradesman	9/20/2025	9/20/2026	Mole on Upper Lip
137	10001796	Sanat Kumar	CEM Manufacturing_Mechanical	Junior Tradesman	9/20/2025	9/20/2026	Cut Mark On Forehead
138	10001797	Subhash Chandra Saklani	CEM Manufacturing_Civil	Senior Supervisor	9/19/2025	9/19/2026	Cut Mark on LT hand
139	10001798	Ajay Narayan Mishra	CEM Manufacturing_Mechanical	Junior Tradesman	9/20/2025	9/20/2026	Mole on Nose
140	10001803	Kalyan Berman	CEM Manufacturing_Mechanical	Tradesman	9/20/2025	9/20/2026	Black mole on LT Cheek
141	10001804	Krishna Singh	CEM Infrastructure & Facilities_Operations	Cook	9/19/2025	9/19/2026	Cut mark on LT Ring Finger
142	10001805	Rakesh Singh	CEM Manufacturing_Quality	Assistant	9/19/2025	9/19/2026	Cut Mark On Forehead
143	10001806	Puran Saw	CEM Manufacturing_Quality	Helper (Lpc)	9/19/2025	9/19/2026	Black mole on forehead
144	10001807	Murli Dhar Hanida	CEM Finance & Accounts_Operations	Assistant - II	9/19/2025	9/19/2026	Mole on RT hand
145	10001808	Jahangir Hussain	CEM Manufacturing_Mechanical	Machinery Attendant	9/20/2025	9/20/2026	Cut mark on Forehead
146	10001810	Brajesh Kumar	CEM Manufacturing_Mechanical	Machinery Attendant	9/20/2025	9/20/2026	Black mole on Neck
147	10001811	Md. Kallmuddin	CEM Infrastructure & Facilities_Security	HMV Driver	9/20/2025	9/20/2026	Cut mark on RT Head
148	10001812	Nurul Hoda	CEM Infrastructure & Facilities_Operations	HMV Driver	9/20/2025	9/20/2026	Cut mark on RT Hand

Annexure: XXX

**BOKARO CEMENT MANUFACTURING WORKS
DALMIA CEMENT (BHARAT) LIMITED**

Corporate Environment Responsibility & CSR report for the period of October 2025 to March 2026

A Corporate Environment Responsibility Report				
S.N	EPR Details of surrounding Village	Village name	Rs.in Lakhs	Rs.in Lakhs
1	Installation of New (60), Old and Repaired (40) LED Lights	Gorabali North, Kanari, Marafari	110000.0	29.21
2	Tree Plantation (500 nos)	Khutri	7000.0	
3	Well Renovation	Khutri	199000.0	
4	Pond Renovation	Marafari, Khutri	2200000.0	
5	Swachta Hi Sewa	Gorabali North	5000.0	
6	Distribution of Battery-Operated Tricycle for Orthopedically Handicapped Divyang	Bokaro	400000.0	
B CSR Report				
S.N	CSR Details of surrounding Village	Village name	Rs.in Lakhs	
1	Lah Bangal Making Training	Tand Balidih	65000	27.42
2	Embroidery Training	Govind Mahdyamik Vidyalaya, Marafari	25000	
3	Distribution of Nutritional kit to TB patients	Gorabali South, North, Khutri, Kanari, Narkara, Marafari	236000	
4	General Medicine and Gynecology Camp	Kanari	15000	
5	Digital Literacy through WoW Bus	Jainamore	325000	
6	Republic Day in CER &	Govind Madhyamik Vidyalaya and Bokaro Diksha	25000	
7	Blankets Distribution	Gorabali South, North, Marafari, Narkara, Kanari, Khutri	237000	
8	Skill training to local youths at Bokaro Diskha	Bokaro Diksha	1200000	
9	Distribution of Sports Items	Gorabali South, North, Marafari, Narkara, Kanari, Khutri	15000	
10	Uyam Aadhar Registration	Kanari	10000	
7	Toilets and Kitchen shed constructed	Gorabali North	589999.00	
Total Expenses in CER and CSR for the period of October 2025 to March 2026			Rs.56.63/-	

Photographs of CSR and CEP details for the period of Oct 2025 to March 2026

Embroidery Training



Distribution of Blankets



Distribution of Battery-Operated Tricycles



Distribution of Nutrition Kit to TB Patients



Village Pond renovation





**Celebration of Swachta Hi Sewa Pakhwada
Tailoring Training**



Beautician Training



Distribution of Chairs for Old age homes



General Medicine and Gynecology Camp



Digital Literacy through WoW Bus



EDP Training



Vaccination of Livestock's (Goat)



Dental Camp



Plantation and distribution of disposable carry bags



Celebration of Yoga Day at Bokaro DikshaWell Renovation



Skill Training to local youths and Independence Day Celebration at Bokaro Diksha



Celebration of Sewa Diswas



Skill Training to local youths and Independence Day Celebration at Bokaro Diksha

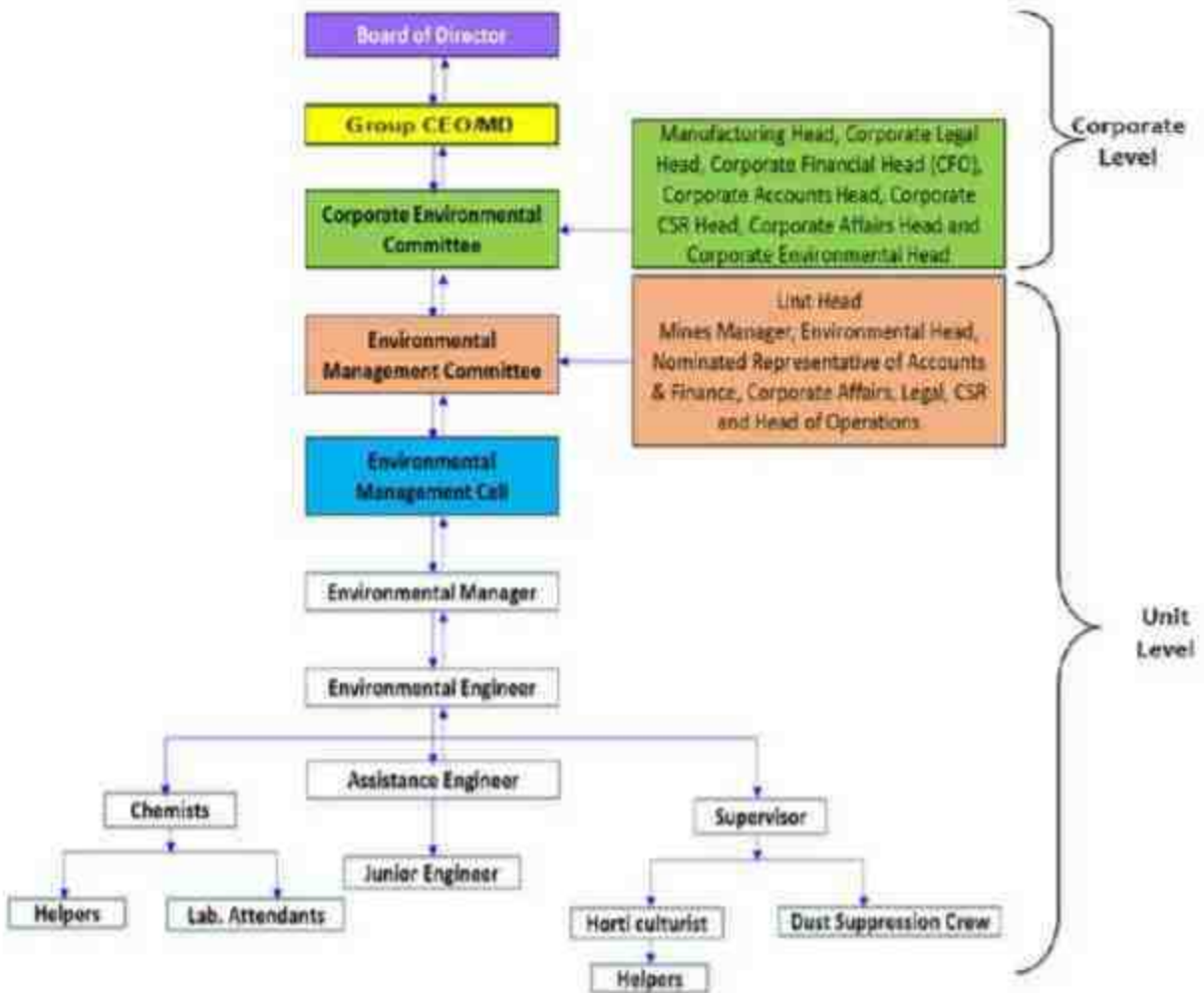


Celebration of Sewa Diswas



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-XXXII

ENVIRONMENT MANAGEMENT CELL

Bokaro Cement Manufacturing Works (Unit of Dalmia Cement (Bharat) Limited, Bokaro having Environmental Management Cell both at the Plant and Company Head Quarter level which is controlled by Sr. Executive Director /Unit Head by adequate team of technically qualified personnel apart from the operative staff of skilled, semi-skilled, unskilled and other categories for fulfil the following objectives: Environment Management Cell Responsibility as follows :

1. Preparation & submission of fresh consent application, Hazardous waste authorization application, and renewal of all consent.
2. Timely submission of Statutory reports (Monthly, half-yearly and annually to JSPCB, CPCB, MoEF.
3. Ambient air quality monitoring (PM₁₀, PM_{2.5}, and fugitive emission in Cement Plant.
4. Measurement of both work place & ambient noise level in various locations in plant.
5. Assessments of water consumption Industrial and Domestic.
6. Keeping Plant clean through Housekeeping initiatives.
7. Performance evaluation of air pollution control system.

The Environment management cell is responsible for pollution monitoring activities in DCBL Bokaro. Ambient air quality monitoring, Stack monitoring, water and effluent quality checking, and checking of noise level in plant, following pollution monitoring equipment are available in Environment cell.

DCBL Environment Monitoring Equipment's Details

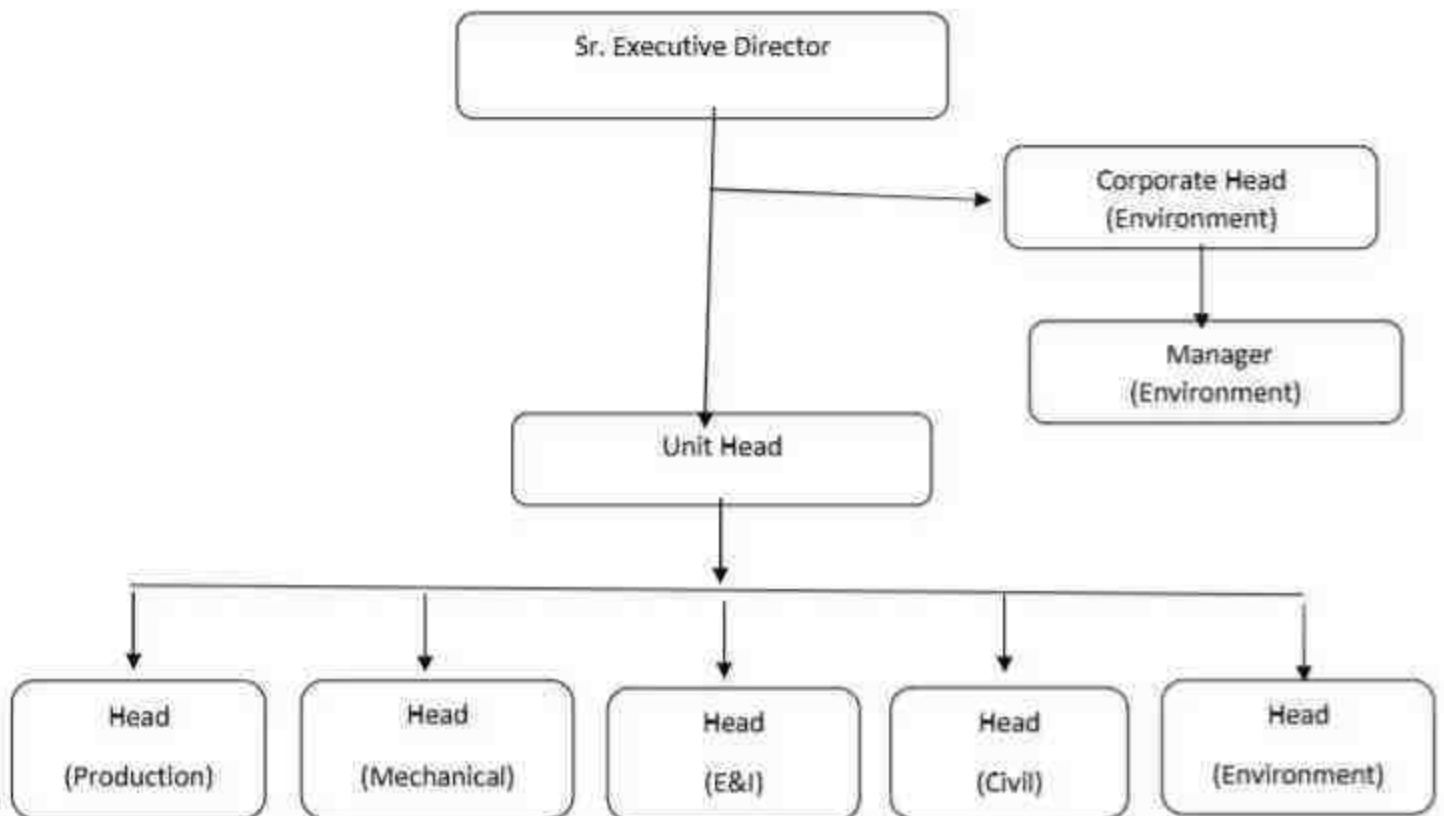
S. N.	Name of Equipment's	No. of Equipment's
A. Ambient Air Quality Monitoring		
1.	Respirable Dust Sampler (RDS) PM-10	04
2.	Respirable Dust Sampler PM10-2.5	04
3.	Portable DG Sets	01
4.	Continuous Ambient Air Monitoring System (CAAQMS)	02
B. Stack Monitoring		
5.	Stack Monitoring Kit	01
6.	Continuous Stack Emission System (CEMS)	01
C. Workplace Monitoring		
8.	Sound Level Meter	01
9.	Personal Sampler APM 800	01

D.	Water Quality Monitoring	
10.	Spectrophotometer-Model DR/2700 (Hach-USA)	01
11.	Turbidity Meter	01
E.	Others	
12.	Hot Air Oven	01

In case the monitoring result of environment pollution found to exceed the allowable limits, the Environmental cell will suggest remedial action and get these suggestions implemented through the concerned authorities.

The Environmental Management cell will also co-ordinate all the related activities such as checking of performance of pollution control equipment installed in plant, Sewage treatment plant, and green belt development in DCBL Bokaro.

ENVIRONMENT MANAGMENT CELL ORGANIZATION CHART



Annexure: XXXIII

BOKARO CEMENT MANUFACTURING WORKS
DALMIA CEMENT (BHARAT) LIMITE

Capital cost Investment on Environment management up to March 2026

Sn	Item	Cost (Rs. in Crores)
1	Cost of Air Pollution Control Systems	
A	APCEs like Bag house with stack & auxiliary Bag filters cost	25.0
B	Cost of CAAQMS & Opacity Meter and Digital Display Board	1.0
C	Road Sweeping Machine	0.30
D	Water Tanker spraying	0.01
E	Concreting of internal road and drainage	8.0
	Sub Total	34.31
2	Cost of Water conservation & Pollution Control	
A	STP of 15 KLD	0.25
B	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 2025- March 2026

Bokaro Cement Manufacturing Works (Unit of DCBL)		
Recurring cost expenditure on various Environmental protection activities from October 2025 to March 2026		
October 2025-March-2026		
S. No.	Environmental activities	Cost (Rs. In Lacs)
1	Bags replacement with new bags, Bags cleaning, De dusting line checking, cleaning and repairing work. Bag filters fan maintenance etc)	0.82
2	Power consumption in Pollution control equipment (Bag House & Bag Filter) 8077240 KWH X 5.63 per unit	454.74
2	Third Party Environmental Monitoring & Analysis	1.68
3	AMC of CEMS Data transmission to JSPCB& CPCB	0.15
4	AMC of CAAQMS Maintenance, Servicing and Calibration,	0.75
6	Calibration of Pollution Monitoring Equipment's (CEMS)	1.5
10	STP Operation & Maintenance	1.33
11	Road Sweeping Machine Operation & Maintenance	1.6
13	Fuel consumption and manpower cost of water sprinkling tanker	1.4
14	Green Belt Development	0.65
TOTAL RECURRING COST EXPENDITURE FROM OCTOBER 2025 TO MARCH 2026 (Rs):		464.62

Bokaro Cement Manufacturing Works (Unit of DCBL)**Half Yearly Environment Internal audit report for the period of October 2025-March - 2026**

Date: 2.01.2026 (2.30 PM -5.30 PM)

Following below members present in Environment Audit:

1. Sunil Kumar Bhusari
2. Debi Prasad Das
3. Arvind Kumar (Head Mechanical)
4. BK Choudhary (Head E&I)
5. Drigpal Singh (Asst. Manager Quality)
6. Sagar Sharma Head (Safety)
7. Sohan Lal (Head Civil)
8. Shubham (Unit Head Office)
9. Sanjeev Verma (Head Environment)

Following below point discussed and reviewed of Environment performance of Dalmia Cement (Bharat) Limited. Bokaro

Sr. No	Environment internal audit observation points	Compliance Status of observation points	Auditor Observation
1.	Review status of Statutory compliance - Consent to Operate (CTO) & Environment Clearance (EC) compliance condition	Complied. Timely submitted EC Compliance report to / MOEF&CC, JSPCB /CPCB/SEIAA.	Complied
2.	Checked Calibration certificate record of Pollution monitoring equipment	Complied, On line CEMS & CAAQMS calibration done in time and CEMS and CAAQMS data continuous transmitted to JSPCB & CPCB server and emission maintained within the norms.	Complied
3.	Statutory compliance - Hazardous waste management	Complied. Timely submitted Hazardous waste return Form-IV JSPCB Ranchi & Regional Office 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.	Complied. Timely submitted Hazardous waste return Form-IV JSPCB Ranchi & Dhanbad.	Complied
5	Checked Calibration certificate record of Pollution monitoring equipment.	Complied. On line CEMS & CAAQMS instrument calibrated with in time.	Complied
6	On Line monitoring data display at factory main gate.	Complied. Online Environment monitoring data displayed at main gate.	Complied
7	Checked Third party Environment monitoring report.	Complied, third party Environment monitoring report done on quarterly basis and all Environment monitoring data available in Environment Department.	Complied
8	Checked Drinking water quality	Complied, drinking water quality regularly checked on monthly basis all parameter with in the norms.	Complied
9	Checked status validity of CTO and HWA.	Complied. within time limit	Complied
10	Checked fugitive dust emission records	Fugitive dust emission monitoring done by NABL/JSPCB approved lab record available at Environment Department and fugitive emission control measures taken.	Complied
11	Status of Green belt development	Complied Green belt maintained 33% of the plant. Also instructed to horticulture department for regular sprinkling of water on trees during dry season.	Complied
12	Rain water harvesting system	Complied Rain water harvesting system constructed and maintained. Also instructed to Civil department for cleaning of all drainage of RWH System	Complied
13	Status of Bag filter /Bag house	Complied All plant Bag filter and bag house is running	Complied

		condition and also instructed to Maintenance team for preventive maintenance with in time period.	
14	Status of Bag filter /Bag house	Complied All plant Bag filter and bag house is running condition and also instructed to Maintenance team for preventive maintenance with in time period.	Complied
15	Submission of Environment statement to JSPCB	Complied Environment Statement submitted with in time for the year 2025-2026	Complied
16	Statue of water spray tanker for control of fugitive dust emission	Complied Water spray tanker regular water spray on the outside roads and dust prone area for the control of fugitive dust emission and record maintained	Complied
17	Status of road sweeping machine	Complied Regular cleaning of the roads and concreated area by road swapping machine and record maintained. also discussed preventive maintenance of road sweeping machine to control of breakdown of road sweeping machine.	Complied
18	Status of Solar light	Complied Solar light installed at different location in the plant . instruct Electrical Department for preventive maintenance of Solar light.	Complied
19	Status of Water sprinkler	Water sprinklers and water fog system working condition in plant gate main road	Complied
20	Status of Raw material covering	Raw material are covered with tarpaulin sheet for control of fugitive dust emission.	Complied
21	Maintenance of plant main inertance road	Regular plant outside road maintenance done as when required	Being done
22	PPEs provide to all workers and employee's	It is observed that all workers employees are wearing PPEs in plant area. PPEs are regularly provided to all employee's .	Complied

23	Awareness done on Safety and Environment protection.	Daily discussion done on GRT (Grass Root Team) meeting to awareness for safety and Environment for all employees.	Complied
24	Few places belt conveyers open	Covering of conveyers belt work is under progress and will completed one week.	Complied
25	Water leakage near FBC area	Damage pipe line change with new pipe line. Presently no water leakage.	Complied
26	Tree plantation required in plant vacant place area	Instructed to Horticulture team for native tree plantation in Monsoon season	Complied
27	Ground water level and ground water quality report	Ground water level checked and Ground water quality analysis regularly done and reports are available in Environment Department of surrounding village area.	Complied
28	Medical health checkup record	Medical health checkup regularly done and Medical Health checkup report available at Plant OHC.	Complied
29	Disposal of Bio Medical Waste	Bio Medical Waste dispose off through authorized vendor from JSPCB /CPCB M/s Bio Genetic PVT Limited Dhanbad	Complied
30	Disposal of Used Oil /Waste oil	Used oil /Waste oil dispose of through authorized vendor from SPCB /CPCB M/s M/s Plus Lubricants Gul Authorization No.MPCB-RO(HQ)HSMD/ Autho/19/H&OW-26	Complied
31	Checking of Vehicle PUC Certificate	Regular PUC certificate checked by Security team of PUC of all vehicle interring in plant area	Complied
32	Disposal of Kitchen Waste	Bachler hostel kitchen waste collected and dispose of by nearby villagers to fed there animals .	Complied
33	Status of Water meter	All water meter working condition.	Complied

Final Report – August, 2025

ENVIRONMENTAL COMPLIANCE AUDIT REPORT

FOR



**BOKARO CEMENT MANUFACTURING WORKS (A UNIT
OF DALMIA CEMENT (BHARAT) LIMITED)**

AT

**BOKARO INDUSTRIAL AREA, BALIDIH, BOKARO,
JHARKHAND**



Prepared By:



INSTITUTE FOR ENVIRONMENTAL MANAGEMENT

A-13, Saket Vihar, Harmu Housing Colony

Ranchi, Jharkhand, India

NABET certificate no.: QCI/NABET/ENV/ACO/24/3193

Valid up to: February 7, 2027

Declaration by experts contributing to the Environmental Compliance Audit report for Bokaro Cement Manufacturing Works (A Unit of Dalmia Cement (Bharat) Limited) located at Bokaro Industrial Area, Balidih, Bokaro, Jharkhand Jharkhand.

We, hereby, certify that we were the part of the **Environment Compliance Audit** team in the following capacity that developed the above **Report**, submitted to client.

Endorsed by:

Name: Dr. S. C. Jain

(Director)

Signature:

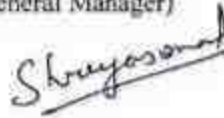


Project Coordinator:

Name: Ms. Shreya Sonal

(Assistant General Manager)


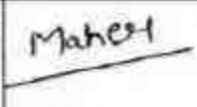
Signature:



Period of Involvement: August 2025 to till date

Contribution of Experts Team:

S. No.	Name of the expert/s	Involvement (Task & Period)		Signature
		Task	Period	
1.	Dr. S.C. Jain	Finalization of the report.	August 2025 to till date	
2.	Ms. Shreya Sonal	Development of Audit Findings and Compliance Report. Preparation of Compliance Summary for Audit Requirements	August 2025 to till date	
3.	Mr. Abhigyan Rohan	Evidence gathering through documents and photographs at site	August 2025 to till date	
4.	Mr. Rajiv Kumar Singh	Evidence gathering through documents and photographs at site	August 2025 to till date	

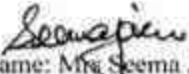
5.	Ms. Akanksha Sourabh	Coordination and Assistance in Report Preparation.	August 2025 to till date	
6.	Ms. Maher Fatmi	Coordination and Assistance in Report Preparation.	August 2025 to till date	

Declaration by the Head of the accredited consultant organization/ authorized person

I, Mrs Seema Jain, hereby, confirm that the above-mentioned experts were involved in the, Environmental compliance Audit report preparation for **Bokaro Cement Manufacturing Works (A Unit of Dalmia Cement (Bharat) Limited) located at Bokaro Industrial Area, Balidih, Bokaro, Jharkhand.** I also confirm that the consultant organization shall be fully accountable for any mis-leading information mentioned in this statement.

The report has been prepared on the basis of the maps, documents, details provided by the Dalmia Cement Bharat Limited, Bokaro.

Signature:


Name: Mrs Seema Jain

Designation: Managing Director



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CHAPTER 1 – INTRODUCTION

1.1 BACKGROUND

This Environmental Audit Report has been prepared to assess the environmental performance of Bokaro Cement Manufacturing works (A Unit of Dalmia Cement (Bharat) Limited), situated in Bokaro Industrial Area, Balidih, Bokaro, Jharkhand. The audit aims to evaluate the project's compliance with applicable environmental regulations, standards, and best practices, as well as identify areas for improvement in environmental management.

The cement project has the potential to impact the environment in various ways. This audit was conducted to ensure that the project is being implemented in an environmentally responsible manner and to identify opportunities for minimizing its environmental footprint.

The audit was conducted on **6th August 25** by IEM Team and involved a thorough review of documents, observations, and interviews with key personnel. This report presents the findings, observations, and recommendations arising from the audit, with the objective of promoting environmental sustainability and minimizing the project's adverse environmental impacts.

1.2 SCOPE OF WORK

The scope of environmental auditing, as per Dalmia's mandate, includes:

- To review the conditions stipulated in the Environmental Clearance (EC) granted to the cement plant and its associated units, specifically focusing on measures for controlling air pollution, fugitive emissions, noise levels, and wastewater/solid waste management.
- To assess compliance with the EC conditions, Consent to Establish/Operate (CTE/CTO) conditions, and other statutory approvals relevant to cement manufacturing processes such as raw material handling, cement grinding,
- To conduct detailed site inspections and verify on-ground environmental performance, including stack emissions from grinding units; fugitive dust concentrations at transfer points. This also includes reviewing on-site documentation, monitoring reports, and the adequacy of sampling and analytical procedures.

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- To engage in discussions with concerned plant personnel regarding statutory compliance, operational practices, environmental infrastructure (bag filters, bag houses, dust extraction systems), and effectiveness of systems installed to meet EC and regulatory requirements.
- To evaluate the overall environmental performance of the cement plant in relation to EC stipulations, Consent conditions, Hazardous and Other Waste Rules, Solid Waste Management Rules, and guidelines.
- To assess compliance and adequacy of environmental management practices, including dust management in material handling areas, clinker and fly ash storage, greenbelt development, storm water management, and occupational health and safety provisions.

To provide recommendations for improving environmental performance, including upgrades in pollution control systems, dust suppression measures, energy efficiency improvements, and strengthening of environmental monitoring and management systems.

To prepare a detailed Environmental Audit Report outlining compliance against each EC and Consent condition, along with corrective actions, recommendations, and improvements required for strengthening environmental management and monitoring at the cement plant.

1.3 OBJECTIVES

The key objectives of the audit were:

1. To assess compliance:

Evaluate adherence to Environmental Clearance (EC) conditions, Consent to Operate/Establish (CTO/CTE), and other statutory requirements applicable to cement manufacturing operations,

2. To evaluate environmental performance:

Assess the effectiveness of the plant's environmental management systems—covering air emissions, fugitive dust control, solid and hazardous waste handling, noise control, and greenbelt development—and identify areas needing improvement.

3. To ensure environmental protection:

Verify that adequate mitigation measures are implemented to minimize environmental impacts such as particulate emissions, dust dispersion, noise, and impacts on local water resources, biodiversity, and the surrounding community.

4. To promote sustainable development:

Encourage sustainable cement manufacturing practices by assessing energy efficiency, alternative fuel and raw material (utilization, resource conservation, and overall carbon footprint reduction strategies).

5. To identify areas for improvement:

Provide actionable recommendations to improve plant operations, environmental monitoring systems, pollution control equipment efficiency and ensure best environmental practices across all units.

6. To support informed decision-making:

Offer a comprehensive evaluation of the plant's environmental performance to help management make data-driven decisions, improve sustainability outcomes, and ensure continuous compliance and environmental stewardship.

1.4 CONDUCT OF ENVIRONMENTAL AUDIT WORK & REPORTING

The environmental audit involved a document review, site inspection, and stakeholder consultation. A draft report was prepared and submitted to Dalmia for comments, followed by incorporation of responses and preparation of this final audit report.

1.5 STRUCTURE OF THE REPORT

The final environmental audit report is structured into the following five chapters:

Chapter 1- Introduction and Background information on Bokaro Cement Manufacturing Works. (Unit of Dalmia Cement (Bharat) Limited).

Chapter 2- Audit Methodology: A detailed description of the audit process and scope of the audit.

Chapter 3- Environmental Compliance Audit: An overview of the findings of the audit, including descriptions of compliance and findings from the site inspection in compliance to the EC conditions.

Chapter 4- Audit Findings: The draft report of audit finding was submitted to Dalmia for needful and comments. The comments of the PP on IEM observation were recorded, which were discussed and finalized.

Chapter 5- Post Audit comments and clarifications.

CHAPTER 2 – AUDIT METHODOLOGY

2.1 METHODOLOGY

The methodology for the environmental audit involves a comprehensive approach to assess compliance and environmental performance. It begins with a thorough document review, examining relevant documents such as Environmental Clearance approvals, other statutory clearances, and environmental monitoring reports. A site visit is then conducted to observe environmental management practices, inspect facilities, and gather data on environmental parameters. Interviews and discussions with key personnel, including plant management and environmental staff, provide valuable insights into environmental management practices and procedures. Data collection and analysis are also crucial, involving the examination of environmental data such as air and water quality monitoring data and waste management records. The audit culminates in a comprehensive report detailing findings, recommendations, and conclusions, highlighting areas of compliance and non-compliance, and providing opportunities for environmental performance enhancement.

2.2 OPENING MEETING

The audit process commenced with an opening meeting on 6th August 2025 with the Bokaro Cement Manufacturing Works, Dalmia Team which includes other concerned officials to introduce the audit scope and their responsibility in facilitating the process. The purpose, depth and the scope of the audit were outlined and the methods were explained. Further, requirement of documents to review such as various management plans, project report, and periodical reports submitted to various regulatory agencies to address specific compliance requirement particularly those relevant to address the scope of the study were discussed and deliberated.

2.2.1 CONSULTATION

Interaction meetings were conducted with the concerned officials and staff dealing with the project to understand the regulatory and statutory process followed for the plant.

2.2.2 DESK REVIEW

The available documents were exhaustively desk reviewed for generation of information and the gaps in compliance to environmental clearance conditions; relevant information generated was

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used for detailed discussion with the concerned officials.

2.3 DATA COLLECTION AND VERIFICATION

The audit team reviewed the following statutory and project-related documents, as listed in **Table 2.1**, to assess environmental compliance:

This review enabled the team to evaluate the project's adherence to relevant environmental regulations and standards.

Table 2.1- Document reviewed by IEM

Sl No.	Documents	Letter no. & Dated
1	Environment Clearance (EC) 2.0 MTPA to 3.1MTPA	EC/SELAA/2022-23/2646/2646/27, Ranchi Dated 08.02.2023
2	Environment Clearance (EC) 2.0 MTPA	EC/SELAA/2021-22/2534/2022/27, Ranchi Dated 21.04.2022

Sl. No.	Documents	Letter no. & Dated	Validity
1	Consent for Establishment for 2.0 MTPA	JSPCB/HO/RNC/CTE-12699959/2022/ 195, Dated 28-04-2022	27.04.2023
2	Consent for Establishment for 2.0 MTPA to 3.10 MTPA	JSPCB/HO/RNC/CTE-15399804/2023/ 128, Dated 23-02-2023	As per EC
3	Consent to operate 3.10 MTPA (PSC/ PCC) under Air &Water Act	JSPCB/HO/RNC/CTO-15980338/2023/1752, Dated 20.10.2023	31.03.2024
4	Consent to operate 3.10 MTPA (PSC/ PCC) under Air &Water Act	JSPCB/HO/RNC/CTO-17957569/2024/283/ 24.02.2024	31.03.2029
5	Authorization of Hazardous Waste	JSPCB/HO/RNC/HWM-16948442/2024/14, Dated 04/03/2024	30.09.2028

2.4 SITE INSPECTIONS

The areas that were inspected during the comprehensive site visit to Dalmia site on 6th October 2025 are mentioned below. The inspection aimed to evaluate environmental management practices, identify potential risks, and ensure compliance with regulatory requirements.

- Raw material handling & storage
- Cement grinding unit (VRM)
- Fly ash / Slag handling & storage
- Coal
- Cement storage silos
- Packing plant & dispatch area (Truck/Bag/Bulk Loading)
- Central Control Room (CCR)
- Water management systems (process water, dust suppression, domestic water)
- Sewage Treatment Plant (STP)
- Garland drains & storm water management system
- Solid waste management (dust, process rejects, sludge)
- Hazardous waste management (used oil, grease, contaminated materials)
- Greenbelt development & plantation
- Ambient air quality & noise monitoring stations
- Occupational Health Centre (OHC)
- Employee protection & safety systems (PPE, safety signage, emergency response)
- Energy management systems (VFDs, energy meters)
- Renewable energy integration (Solar rooftop, LED lighting)
- Corporate Social Responsibility (CSR) activities
- Environmental laboratory / monitoring corner

2.5 CONSULTATIONS WITH PROJECT OFFICIALS

The audit team conducted comprehensive consultations with project officials, including:

- **Plant Manager:** Discussing overall plant operations and process efficiency

- **Environmental Officer:** Reviewing statutory compliance, monitoring data, and environmental management systems
- **Safety Officer:** Understanding safety practices, PPE implementation, and emergency preparedness.
- **CSR Coordinator:** Evaluating corporate social responsibility activities
- **Operational Staff:** Gathering insights on daily operations and practical implementation of environmental measures

The purpose of these consultations was to evaluate the implementation of environmental management initiatives, identify operational challenges, and understand future planning related to:

- **Air Pollution Control Systems:** Performance of bag filters and bag house, and stack emission compliance
- **Greenbelt Development:** Progress, maintenance, and future plantation targets
- **Energy Efficiency:** Plans for energy conservation
- **Raw Materials :** Current usage and future enhancement strategies
- **Water Management Systems:** Reuse, recycling, and reduction initiatives in process and domestic water consumption
- **Environmental Laboratory Strengthening:** Enhancing in-house environmental monitoring capabilities
- **Zero Liquid Discharge:** Plant strictly follows Zero Liquid Discharge (ZLD).

2.6 MONITORING & VERIFICATION

Cross-verification of compliance status was done using:

- **NABL-Accredited Laboratory Data:** Ensuring accuracy and reliability of monitoring data
- **Internal Records:** Reviewing air, water, and noise quality monitoring records
- **CSR Activity Reports and Fund Utilization Statements:** Evaluating CSR initiatives and fund utilization

2.7 REVIEW OF STATUTORY COMPLIANCE

The audit team evaluated compliance with relevant statutes and regulations, including:

- **Environmental Acts:**

- Air (Prevention & Control of Pollution) Act, 1981
- Water (Prevention & Control of Pollution) Act, 1974
- Environment (Protection) Act, 1986
- Forest (Conservation) Act, 1980

- **Environmental Standards:**

- Air Quality Standards (GSR-742(E), NAAQS)
- Noise Quality Standards (GSR-742(E))
- Water Quality Standards (GSR-801(E), IS10500:2012, IS2296:1982)

The team cross-checked statutory consents and approvals with field-level implementation and operational records to ensure compliance.¹

2.8 WORKING GROUP MEETING & REPORTING

After the completion of interview, document verification and site visit; the observation and suggestions by the audit team were compiled into a consent checklist and audit notes were prepared. This report has been prepared highlighting areas where action or improvement is required keeping in view the scope of the study.

CHAPTER 3 – COMPLIANCE STATUS

The Environmental Audit was carried out in accordance with the conditions stipulated in the Environmental Clearance (EC), Consent to Establish (CTE), Consent to Operate (CTO), Forest Clearance (FC), Environmental Management Plan (EMP), and other applicable statutory approvals. The audit team developed and implemented systematic procedures to obtain sufficient, relevant, and reliable evidence for assessing the degree of compliance. The appropriateness of each activity was evaluated based on the quality of evidence—its relevance, validity, and reliability—which served as the basis for professional judgment in determining the nature, timing, and extent of the audit procedures.

The audit for Bokaro Cement Manufacturing Works (Unit of Dalmia Cement (Bharat) Limited), was conducted through a comprehensive review of documents, site inspections, stakeholder interactions, and verification of records to establish evidence of compliance

3.1 DEFINITIONS OF TERMINOLOGY USED FOR ASSESSMENT OF COMPLIANCE STATUS

For assessment of compliance status against each stipulated environmental clearance and statutory condition, the terminology described in **Table 3.1** has been adopted.

Table 3.1: Expression of compliance with conditions of approval

Status	Description
Complied	Where the environmental condition is implemented in accordance with the stipulated conditions.
Being Complied	The condition is dynamic, where continuous compliance is ensured with passage of time.
Will be Complied / Agreed	Requirement of compliance is at a later date and will be complied at appropriate time.
Partially Complied	Compliance of condition is not fully met and is inadequate.
Not Complied	Non-conformance / lack of implementation of needed action.
Not Applicable / Review Required	Condition is not applicable for the project. Requires review and initiative by project proponent (PP) to bring it to the notice of MoEF&CC for needful action.

3.2 COMPLIANCE STATUS OF Bokaro Cement Manufacturing Works (Unit of Dalmia Cement (Bharat) Limited). Based on the audit, the compliance status of major EC conditions is presented in Table 3.2.

Table 1.2 - Point wise compliance status of Environmental Clearance conditions and Audit Observations /Recommendations by EM

EC Conditions - EC Letter No. EC/SELAA / 2021-23 /2646/ 2021/366, Ranchi Dated: 08.02.2023.			
Point No.	Specific Condition of EC	Compliance Status	Observation
Specific Condition			
(i)	This Environmental Clearance is valid subject to the following conditions 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 used c. Complied with the decisions of SELAA on the issue of Environmental Clearance till date.	Complied	a. The project is located in Notified Industrial area. The Land is allotted by HADA to DCBL, at Plot No. IVGA-7(PM), Notified Bokaro Industrial Area (A) (Phase-4), Notified Bokaro Industrial Area (B) (Phase-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. Statutory 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 HADA, 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 wildlife sanctuary within 10 km 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 2658 dated 28.11.2021 respectively. The same was submitted along appraisal of plant and also is attached herewith as Annexure I & II.
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 the 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 HADA, Bokaro. There is no record of Schedule-I species within 10 km 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	Our unit has obtained CTE from JSPCB, Ranchi vide letter no. JSPCB/HO/KNC/CTE-15199804/2623/128, dated 23.02.2023, and CTO obtained from JSPCB Ranchi vide letter no. JSPCB/HO/RNC/CTO-17967560/2074/261 dated 24.02.2024, attached as Annexure-III & IV.
5	The project proponent shall obtain the necessary permission from the Central Ground Water Authority, in case of 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 HADA and Drinking Water and Sanitation Sub-Division, Bokaro vide letter no. 56 dated 13.04.2022. The same is attached herewith as Annexure-V.
6	The project proponent shall obtain authorization under the Hazardous and other Waste Management Rules, 2016 as amended from time	Complied	Authorization under the Hazardous and Other Waste Management Rules 2016 obtained from JSPCB Ranchi. Copy attached as Annexure-VI.

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7	to time No mining activity shall be undertaken in the forest land or deemed forest without obtaining prior forestry clearance.	Not Applicable	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 NCLT, MoEF&CC and any other Court of Law, if any, as may be applicable to this project.	Will be Complied / Agreed	None
9	Environmental Clearance is subject to obtained prior clearance from forestry and wildlife angle including clearance from standing committee of NWFL, as may be applicable to this project (in case any fauna occur /in 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 located within 10 km of protected area.	Not Applicable	Not Applicable and EC has already been obtained.
10	The project proponent may apply simultaneously for forest and NWFL clearance, in order to complete the formalities without undue delay, which till process on their respective wards, no rights will vest in or accrue to them unless all clearance are obtained.	Not Applicable	Not Applicable
II. Air quality monitoring and preservation			
1	The project proponent shall install 24x7 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 (3) dated 25 August, 2014 (Central) and subsequent amendment dated 09 th May 2016 (Central) and	Complied	Continuous emission monitoring system at process stacks installed in gasifier stack emission with respect to standards prescribed in Environment (Protection) Rules 1986 vide G.S.R. no. 612 (3) dated 25 August 2014 (Central) and amendment dated 9 th May 2016 (Central) and connected to SPCH and CPCB online servers. Stack emission monitoring report from October 2024 to March

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	connected to SPCH and CPCB online server and calibrate these system from time to time according to equipment supplier specification through lab recognized under Environment (Protection) Act, 1986 or NABL accredited laboratories.		5025 is attached as Annexure VII. CEMs is being regularly calibrated.
2	The project proponent shall install fugitive emissions in the plant premises at least once in every quarter through lab recognized under Environment (Protection) Act, 1986.	Complied	Fugitive emission regularly monitored. Fugitive emission monitoring report from October 2024 to March 2025 attached as Annexure VIII.
3	The project proponent shall install system in conformity to Ambient Air Quality monitoring for common/criteria parameters relevant to the main pollutants released (e.g. PM-10 and PM-2.5 in reference to PM emission, and SO ₂ and NO _x in reference to SO ₂ and NO _x emissions) within and outside the plant area at least at four locations (one within and three outside the plant area at an angle of 120° each), covering upwind and downwind directions. (one to one batch small doses, Manual, Large plants Continuous)	Complied	On line CAAQMS installed and regularly monitored. Ambient air quality monitored. CAAQMS data regularly transmitted to SPCH and CPCB server. Online CAAQMS and Manual Ambient air quality monitoring report from October 2024 to March 2025 attached as Annexure IX.
4	The project proponent shall submit monthly summary report of continuous stack emission and air quality monitoring and results of manual stack monitoring and manual monitoring of air quality/fugitive emissions to Regional office of MoEF&CC, Zonal office of CPCB and Regional of SPCH along with six monthly monitoring report.	Complied	Stack emission and AAQM regularly monitored. Monitored reports are being regularly submitted to SPCH, 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	Complied	Bag House at the VRM and 11 Bag Filters installed at all the material transfer and handling points to keep the emissions within the standard specified by MoEF&CC/CPCB

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	sources, so as to comply prescribed stack emission and fugitive emission standards.		List of APC equipment is attached as Annexure X .
6	The project proponent shall provide leakage detection and mechanized bag cleaning facilities for better maintenance of bags.	Complied	Regular maintenance of bag filters, leakage checking, and cleaning of bag filters is being done by a 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	Plant is only grinding unit, Clinkersation is not involved. Appropriate 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	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.	Complied	All raw materials/products are being transferred within plant by covered conveyor belt. Inward & outward transportation of raw materials & products is done in covered tarpaulin trucks/ bulkers/ rail to control material spillage as well as fugitive emission.
10	Provide wind shelter fence and chemical spraying on the raw material stock piles.	Complied	All the raw material, fuel and products are stored within the covered storage yard and silos.
11	Have separate truck parking area and monitor vehicular emissions at regular interval.	Complied	PUC-certified equipment as well as trucks are deployed. Separate truck parking facility provided. Regular checking of vehicle PUC certificates is being done to control vehicular emission.
12	Efforts shall be made to reduce impact of the transport of the raw materials and end products on the surrounding environment including agricultural land by the use of covered conveyor belts/railways as a mode of transport.	Being Complied	All measures detailed in EIR & EMP report are implemented to reduce impact of transport. Covered conveyor belts are being used for transportation of raw material & product within plant. All raw materials and products are transported in covered trucks, bulkers, and railways to reduce fugitive dust emission. Regular water sprinkling is being done on the roads within the plant through water spray tanker to control fugitive dust emission.

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13	Ventilation system shall be designed for adequate air changes as per ACGIH Document for all tunnels, motor houses, and cement bagging plants.	Complied	Ventilation system arrangement completed at motor houses and cement bagging plants.
III. Water quality monitoring and preservation:			
1	The project proponent shall install effluent monitoring system with respect to standards prescribed in Environment (Protection) Rules 1986 vide G.S.R. No. 612 as amended from time to time and connected to SPCB and CPCB online servers and calibrate this system 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 for water for manufacturing process. Water is used only for cooling of equipment/machinery in closed loop and 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) at sufficient numbers of piezometers/sampling wells in the plant and adjacent areas through labs recognized under Environment (Protection) Act, 1986 and NABL accredited laboratories.	Not Applicable	No ground water withdrawal in our plant. There is no effluent generation from the plant. Domestic wastewater is treated in STP and treated water is being used within plant for greenbelt development and dust suppression. However, groundwater quality and groundwater depth level of surrounding village are regularly monitored. Same report attached as Annexure-XII .
3	The project proponent shall submit monthly summary report of continuous effluent monitoring and results of manual effluent testing and annual 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.	Not Applicable	There will not be any effluent generation from the plant.

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4	Adhere to Zero Liquid Discharge	Being Complied	Being complied.
5	Sewage Treatment Plant shall be provided for treatment of domestic waste water to meet the prescribed standards.	Complied	15 RLSD STP constructed for the treatment of domestic wastewater. Treated water quality meets the prescribed standards. STP treated water quality analysis report for the period of October 2024 to March 2025 attached as Annexure XIII .
6	Ground drains and collection pits shall be provided for each stock pile to arrest the run-off in the event of heavy rains and to check the water pollution due to surface run-off.	Complied	Ground drains and collection pits provided for each stock pile to arrest run-off during heavy rains and to check surface run-off related water pollution.
7	The project proponent shall practice rainwater harvesting to maximum possible extent.	Complied	Rainwater harvesting system constructed in the plant as per technical approval for RWHT from GWEL, Ranchi. RWHT implementation report attached as Annexure XIV .
8	Water meters shall be provided at the inlet to all unit processes in the cement plant.	Complied	Water meter installed at the inlet of the unit. Photographs attached as 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	Optimum use of water is being practiced, and all necessary efforts are being made to reduce water consumption in the plant. Domestic wastewater is treated in the STP, and treated water is used for greenbelt development and dust suppression. STP treated water analysis report attached as Annexure XV .
IV. Noise monitoring and prevention			
1	Noise level survey shall be carried as per the prescribed guidelines and report in this regard shall be submitted to Regional Office of the Ministry as a part of six- monthly compliance report.	Complied	Noise level is being regularly monitored at different locations as per prescribed guidelines and is regularly submitted to the Regional Office of the Ministry along with the Half-Yearly Compliance Report.

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2	The ambient noise levels should conform to the standards prescribed under E(PYA) Rules, 1996 viz. 75 dB(A) during day time and 70 dB(A) during night time.	Complied	Noise level monitoring report from October 2024 to March 2025 attached as per Annexure-XVI.
V. Energy Conservation measures:			
1	Provide solar power generation on roof tops of buildings, for solar light system for all common areas, street lights, parking around project area and maintain the same regularly.	Complied	Solar-based LED lights installed at different locations in the plant. Photographs attached as per Annexure-XVII.
2	Provide the project proponent for LED lights in their offices and residential areas.	Complied	LED lights installed for lighting purposes.
3	Maximize utilization of fly ash, slag and sweetener in cement blend as per BIS Standards. Waste management.	Complied	Portland Slag Cement (PSC) using waste products such as slag (about 65%) as per BIS norms.
VI. Waste management:			
1	The waste oil, grease and other hazardous waste shall be disposed of as per the Hazardous & Other waste (Management & Trans boundary Movement) Rules, 2016.	Being Complied	Being complied.
2	Kitchen waste shall be composted or converted to biogas for further use. (to be decided on case to case basis depending on type and size of plant)	Being Complied	Kitchen waste utilized by nearby villagers to feed to the animal.
VII. Green Belt:			
1	Green belt shall be developed in an area equal to 33% of the plant area with a native tree species in accordance with CPCB guidelines. The greenbelt shall inter alia cover the entire periphery of the	Complied	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 greenbelt will inter alia cover the entire periphery of the

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	plant		plant. Native species with large canopy will be selected for plantation in accordance with CPCB guidelines. Greenbelt development report attached as per Annexure-XVIII.
2	The project proponent shall prepare GHG emissions inventory for the plant and shall submit the program for reduction of the same including carbon sequestration including plantation	Complied	GHG emission inventory report attached as per Annexure-XIX.
VIII. Public bearing and Human health issues			
1	Emergency preparedness plan based on the Hazard Identification and Risk Assessment (HIRA) and Disaster Management Plan shall be implemented.	Complied	On-site Emergency Preparedness Plan, Hazard Identification and Risk Assessment (HIRA) prepared and approved by Chief Factory Inspector of Jharkhand.
2	The PP shall provide Personal Protection Equipment (PPE) as per the norms of factory Act.	Complied	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	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.

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IX. Corporate Environment Responsibility

1	The project proponent shall comply with the provisions contained in this Ministry's O.M. vide F.No. 22-65/2017-IA.III dated 1 st 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 DBI. 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 March 2025 attached as per Annexure-XX.
2	The company shall have a well laid down environmental policy duly approve by the Board of Directors. The environmental policy should prescribe for standard operating procedures to have proper checks and balances and to bring into focus any infringements/deviation/violation of the environmental/forest/wildlife norms/regulations. The company shall have defined system of reporting infringements/deviation/violation of the environmental/forest/wildlife norms/regulations and/or stakeholders/stake holders. The copy of the board resolution in this regard shall be submitted to the MoEF&CC as a part of six-monthly report.	Complied	The Company has a well-laid-down Corporate Environmental Policy governed by all its units and head office. Accordingly, a full-fledged Environmental Management Cell (EMC) for environmental monitoring and control has been established. The hierarchical/administrative order of the company is attached as 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 of Senior Executive, who will directly to the head of	Complied	Environmental Management Cell has been established at one 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

4	the organization. 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 Ministry/Regional Office along with the Six-Monthly Compliance Report.	Complied	Heavily. Action plan for EMP implementation during construction phase is in place. Separate budget allocated for Environment Protection. It is ensured that budget shall not be diverted for any other purpose. Expenditure on environmental protection will be regularly submitted to Ministry and his Regional Office as a part of Six-Monthly EC compliance report. 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	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 Mineral Beneficiation plants shall be implemented. Miscellaneous.	Complied	Applicable Pollution control measures as per CREP guideline of CPCB implemented.

X. Miscellaneous

1	The project proponent shall make public the environmental clearance granted for their project along with the environmental conditions and safeguards as far as cost by prominently advertising it at least in two local newspapers of the District or State, of which one shall be in the vernacular language within seven days and in addition this shall also be displayed in the project proponent's website permanently.	Complied	A public notice informing about grant of EC has been published in two newspapers named "The Prioneer" and "Aaj" on 02.03.2023 in English as well as in vernacular language i.e. Hindi. Copy of Advertisement are attached herewith as an Annexure XXIV. The Newspapers with advertisements along with copy of EC have been submitted to the Regional Office of MoEF & CC, ME-SUIAA and MS-JSPCB. Copy of submission receipts are attached herewith as an Annexure-XXV.
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**Final Environmental Compliance Audit Report for Bokaro Cement Manufacturing Works unit of Dalmia
Cement (Bharat) Limited, Bokaro, Jharkhand (Line 2)**

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	Complied. Half yearly EC Compliance report uploaded on company official website. screen shot attached as per Annexure-XXVI
4	The project proponent shall monitor the criteria pollutants level namely, PM ₁₀ , SO ₂ , NO _x (Ambient levels as well as stack emissions) or critical sectoral parameters, indicated for the projects and display the same at a convenient location for disclosure to the public and put on the website of the company.	Complied	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	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	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

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**Final Environmental Compliance Audit Report for Bokaro Cement Manufacturing Works unit of Dalmia
Cement (Bharat) Limited, Bokaro, Jharkhand (Line 2)**

7	The project proponent shall inform the Regional Office as well as the Ministry, the date of financial closure and final approval of the project by the concerned authorities, commencing the land development work and start of production operation by the project.	Complied	Date of final approval: 27 April 2022 Date of start of Land development work: 29.04.2022 Date of Production: 25.03.2023
7(i)	The project authorities must strictly adhere to the stipulations made by the State Pollution Control Board and the State Government.	Will be Complied / Agreed	Noted the compliances.
7(ii)	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	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 (JSPCB), Ranchi, and Central Pollution Control Board (CPCB).	Complied	Half yearly EC Compliance reports are being regularly submitted in hard copies and soft copies to the regulatory authority concerned SEIAA, Regional Office of MoEF & CC at Ranchi, Jharkhand State Pollution Control Board (JSPCB), Ranchi, and Central Pollution Control Board (CPCB).
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 the clearance and strict action under the provisions of Environment (Protection) Act, 1986.	Will be Complied / Agreed	Noted & agreed.

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Final Environmental Compliance Audit Report for Bokaro Cement Manufacturing Works unit of Dalmia Cement (Bharat) Limited, Bokaro, Jharkhand (Line 2)

10	The SELAA, Jharkhand or any other competent Authority may alter/modify the above condition or stipulated any further condition in the interest of Environmental Protection.	Will be Complied / Agreed	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).	Will be Complied / Agreed	Noted & agreed.
12	Concealing factual data or submission of false/fabricated data may result in revocation of this environmental clearance and attract action under the provisions of Environment (Protection) Act, 1986.	Will be Complied / Agreed	Noted & agreed.
13	The Ministry may revoke or suspend the clearance, if implementation of any of the above conditions not satisfactory.	Will be Complied / Agreed	Noted & agreed.
14	The Ministry reserves the right to stipulate additional conditions if found necessary. The Company in a time bound manner shall implement these conditions.	Will be Complied / Agreed	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.	Will be Complied / Agreed	Noted & agreed.

Final Environmental Compliance Audit Report for Bokaro Cement Manufacturing Works unit of Dalmia Cement (Bharat) Limited, Bokaro, Jharkhand (Line 2)

16	The above conditions shall be endorsed, 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 Trans boundary 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.	Will be Complied / Agreed	Noted & agreed.
17	Any appeal against this EC shall be with the National Green Tribunal, if preferred, within a period of 30 days as prescribed under Section 16 of the National Green Tribunal Act.	Will be Complied / Agreed	Noted & agreed.
18	This environmental clearance is valid for seven years from the date of issue.	Will be Complied / Agreed	Noted & Agreed.

CHAPTER 4 – AUDIT FINDINGS

The team collected Environmental Clearance (EC) conditions stipulated by MoEF&CC, GoI, issued vide EC/SEIAA/2022-23/2646/2023/366, Ranchi, Date: 08.02.2023, EC Identification no.EC23B000JH199098 for Bokaro Cement Manufacturing Works (Unit of Dalmia Cement (Bharat) Limited). The detailed observations are presented in this chapter. It provides the compliance status of EC conditions and specific as well as general recommendations for improvement.

4.1 COMPLIANCE STATUS OF AUDIT

The stipulated environmental compliance conditions were audited separately for the specific and general conditions. The compliance status is summarized below.

4.1.1 COMPONENT WISE COMPLIANCE STATUS OF SPECIFIC CONDITIONS

Out of the total 72 (43 are compiled EC conditions) specific conditions, the compliance status was categorized as *Complied, Being Complied, Will be Complied/Agreed, Partially Complied, Not Complied, and Not Applicable/Review Required.*

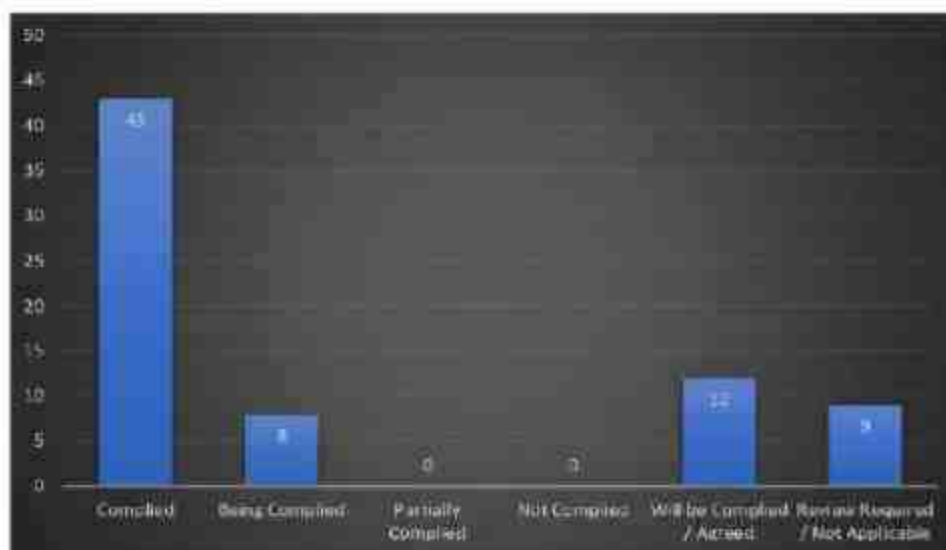
Table 4.1: Compliance status of component wise specific conditions

Components	Complied	Being Complied	Partially Complied	Not Complied	Will be Complied / Agreed	Review Required / Not Applicable	Total
Specific Condition	1	0	0	0	0	0	1
Statutory Condition	3	0	0	0	1	6	10
Air Quality Monitoring & Preservation	12	1	0	0	0	0	13
Water Quality Monitoring & Preservation	5	1	0	0	0	3	9
Noise Monitoring And Prevention	2	0	0	0	0	0	2
Energy Conservation Measures	3	0	0	0	0	0	3
Waste Management	0	2	0	0	0	0	2
Green Belt	2	0	0	0	0	0	2
Public Hearing & Human Health Issues	3	1	0	0	0	0	4

Final Environmental Compliance Audit Report for Bokaro Cement Manufacturing Works unit of Dalmia Cement (Bharat) Limited, Bokaro, Jharkhand (Line 2)

Corporate Environment Responsibility	5	1	0	0	0	0	6
Miscellaneous	7	2	0	0	11	0	20
Total	43	8	0	0	12	9	72

Figure 4.1: Detailed compliance status of component wise specific conditions



4.2 SPECIFIC OBSERVATIONS AND RECOMMENDATIONS

1. RAW MATERIAL HANDLING & STORAGE

Observation: Clinker, gypsum, fly ash, and slag are stored in covered sheds; material transfer points are provided with operational bag filters.

Recommendation: Strengthen housekeeping around packing plant area and ensure timely replacement of filter bags to maintain optimal dust control.

2. CEMENT GRINDING UNIT (VRM)

Observation: The VRM is equipped with high-efficiency bag filters; stack emissions monitored and found within permissible limits.

Recommendation: Increase frequency of localized cleaning around the VRM system to minimize fugitive dust emissions.

3. FLY ASH / SLAG HANDLING & STORAGE

Observation: Fly ash and slag are stored in silos and covered shed; pneumatic conveying effectively minimizes dust dispersal.

Recommendation: Ensure immediate clean-up of any spillage to maintain good housekeeping and prevent fugitive emissions.

4. COAL HANDLING & STORAGE

Observation: The coal yard is adequately covered and maintained.

Recommendation: Ensure complete coverage and conduct regular water sprinkling during dry months to suppress dust.

5. CEMENT STORAGE SILOS

Observation: Silos are equipped with functional pressure relief valves and efficient bag filters; no visible dust observed during aeration.

Recommendation: Continue periodic preventive maintenance of bag filters to sustain operational efficiency.

6. PACKING PLANT & DISPATCH AREA

Observation: Packing machines are integrated with dust extraction systems; minor fugitive emissions observed near truck loading chutes.

Recommendation: Maintain preventive servicing of bag filters and utilize vacuum sweeping machines for regular cleaning to control fugitive dust.

7. CENTRAL CONTROL ROOM (CCR)

Observation: Online monitoring systems are operational with real-time display of emissions and process parameters.

Recommendation: Enable automated data backup and prepare monthly compliance trend reports for better documentation.

8. WATER MANAGEMENT SYSTEMS

Observation: Process water is largely reused; no discharge observed. Water meters are installed.

Recommendation: Maintain comprehensive water meter logs to track and optimize water consumption.

9. SEWAGE TREATMENT PLANT (STP)

Observation: STP capacity is adequate; treated water reused for horticulture and dust suppression.

Recommendation: Improve sludge drying practices and maintain proper records of sludge disposal.

10. GARLAND DRAINS & STORM WATER MANAGEMENT

Observation: Drains are generally clean; minor silt accumulation observed near the raw material yard.

Recommendation: Increase desilting frequency, especially before monsoon, and install mesh screens to prevent debris entry.

11. SOLID WASTE MANAGEMENT

Observation: Dust collected from bag filters is reused completely; housekeeping waste stored separately.

Recommendation: Implement uniform color-coded waste bins throughout the plant for better segregation.

12. HAZARDOUS WASTE MANAGEMENT

Observation: Used oil is stored in designated containers within an impervious, covered area; some labels are faded.

Recommendation: Replace faded labels and ensure spill-response kits are available at all hazardous waste storage points.

13. GREENBELT DEVELOPMENT

Observation: Greenbelt density is satisfactory along the boundary, and plant area.

Recommendation: Introduce additional dust-tolerant native species to enhance pollution-mitigation capability.

14. AMBIENT AIR QUALITY & NOISE MONITORING

Observation: Monitoring is carried out as per schedule; all parameters remain within prescribed limits.

Recommendation: Provide acoustic enclosures or insulation for high-noise equipment where required and conduct periodic awareness sessions for workers.

15. OCCUPATIONAL HEALTH CENTRE (OHC)

Observation: OHC is well-equipped; health records are maintained. Periodic medical check-ups conducted; ergonomic assessment not included.

Recommendation: Integrate ergonomic risk assessments and conduct training for workers involved in repetitive or high-risk activities.

16. EMPLOYEE PROTECTION & SAFETY MEASURES

Observation: PPE usage across the plant is satisfactory; no major non-compliance observed.

Recommendation: Strengthen supervisory checks and conduct refresher sessions on mandatory PPE usage.

17. ENERGY MANAGEMENT SYSTEMS

Observation: VFDs are installed on major motors; energy meters functioning. Energy audit conducted, but implementation of recommendations is partial.

Recommendation: Prioritize execution of low-cost energy-saving measures identified in the energy audit.

18. RENEWABLE ENERGY INTEGRATION

Observation: Solar rooftop systems are operational and contribute to auxiliary power requirements.

Recommendation: Install additional solar lighting within the plant premises and promote employee awareness on renewable energy.

19. CORPORATE SOCIAL RESPONSIBILITY (CSR)

Observation: CSR activities are aligned with local needs; documentation is available.

Recommendation: Develop measurable impact indicators and maintain year-wise CSR outcome and performance records.

4.3 GENERAL OBSERVATIONS AND RECOMMENDATIONS

5.1. GENERAL SITE MANAGEMENT

Observation:

The grinding unit is largely complied with Environmental Clearance (EC) and Consent to Operate (CTO) conditions. Fugitive dust control measures—such as water sprinkling, belt conveyors with enclosures, and bag filters—are operational. However, high-dust zones including raw material unloading, VRM feed points, packing plant, and material transfer areas show intermittent dust accumulation due to heavy material handling. Overall housekeeping is satisfactory.

Recommendations:

- Enhance the frequency of mechanical sweeping on internal roads and major traffic routes.

- Strengthen dust extraction systems and install/upgrade rubber skirting at high-emission points such as the packing plant and fly ash unloading zone.
- Improve and systematize housekeeping schedules around VRM platforms, silo aeration points, and transfer areas.

2. ENVIRONMENTAL DOCUMENTATION & COMPLIANCE

Observation:

The unit maintains essential statutory documents including monitoring reports, calibration certificates, manifests, stack emission data, and CEMS/OCEMS records. While documentation is complete, some logbooks and monitoring sheets are still maintained manually, causing inconsistent data referencing. Calibration of ambient monitoring equipment is carried out as per schedule.

Recommendations:

- Introduce a digital compliance dashboard for real-time monitoring, reporting, and documentation.
- Maintain fully synchronized, standardized digital logs across all environmental parameters.
- Conduct internal environmental documentation audits every six months to ensure data accuracy and regulatory compliance.

3. GREENBELT & ECOLOGICAL MANAGEMENT

Observation:

A developed greenbelt exists along the plant boundary and internal roads, offering effective dust filtration. However, density variations and reduced survival rates are observed in peripheral stretches and near the packing and dispatch area.

Recommendations:

- Increase plantation density using native, broad-leaf, and shade-tolerant species suitable for dusty industrial environments.
- Expand greenbelt around raw material storage and high-dust areas to mitigate fugitive emissions.

4. WATER & STORMWATER MANAGEMENT

Observation:

The grinding unit operates with low water demand. Water reuse is practiced effectively for dust suppression and domestic needs. Stormwater drains are functional but exhibit silt accumulation near material handling and unloading areas.

Recommendations:

- Carry out desilting of stormwater drains and sumps before monsoon and conduct periodic inspections in silt-prone zones.
- Develop additional rainwater recharge structures to enhance groundwater infiltration.
- Install drain screens or sediment traps to minimize silt carryover into downstream drains.

5. SAFETY & HEALTH MANAGEMENT

Observation:

The Occupational Health Centre (OHC) is functional, and periodic health examinations are conducted. PPE usage among regular plant employees is satisfactory.

Recommendations:

- Strengthen PPE enforcement for contract workers and transient workforce through enhanced supervision and regular tool-box training.
- Install or upgrade acoustic enclosures and noise barriers, particularly around the VRM and other high-noise mechanical equipment.

CHAPTER – 5

POST AUDIT CLARIFICATIONS AND FINAL CONCLUSIONS

After incorporating the clarifications and supporting documents provided by the Project Proponent (BCMw) during and after the audit process, the Environmental Audit Report has been finalized and is hereby submitted for onward submission to the competent authority for consideration and clearance of Environmental Clearance (EC) conditions.

The post-audit review involved detailed evaluation of the compliance records, environmental monitoring data, on-site inspections, and clarifications received from project officials. It was observed that the BCMw has implemented a systematic and responsible approach toward environmental management and regulatory compliance at the Dalmia Cement Bharat Limited, Bokaro (Unit 2). The majority of the EC conditions have been satisfactorily complied with, and actions for the remaining long-term commitments are in progress as per stipulated timelines.

5.1 SUMMARY OF AUDIT FINDINGS AND CLARIFICATIONS

The audit established that:

- **A majority of the environmental clearance and statutory commitments have been fully complied with**, reflected by the 43 out of 72 components categorized under “Complied”. High levels of compliance were observed particularly in areas related to air quality preservation, water management, energy conservation, greenbelt development, public health requirements, and miscellaneous general obligations.
- **Several commitments (8 components) are under progressive implementation**, falling under the “Being Complied” category. These primarily relate to ongoing air and water monitoring improvements, waste management measures, and Corporate Environment Responsibility (CER) activities, which require continuous follow-up and periodic verification.
- **A set of long-term or phased actions (12 components) have been classified as “Will be Complied / Agreed”**, representing activities that are planned, committed, and currently under implementation. These include certain statutory and miscellaneous obligations that will be fulfilled within the stipulated compliance timeline.

- No cases of partial compliance or non-compliance were recorded in the audit, indicating that the unit maintains strong adherence to environmental management requirements and no deviation was observed that poses regulatory or environmental risk.
- A total of 9 components require review or are not applicable, due to process-specific, operational, or regulatory reasons. These have been appropriately documented under the "Review Required / Not Applicable" category to ensure clarity in future assessments.

5.2 ENVIRONMENTAL PERFORMANCE OVERVIEW

The cement grinding unit continues to operate in full compliance with the conditions stipulated under Environmental Clearance (EC Letter No. EC/SELAA/2022-23/2646/2023/366, dated 08.02.2023), maintaining a strong commitment to statutory, environmental, and safety standards. The plant operates with Zero Liquid Discharge (ZLD), supported by a 15 KLD Sewage Treatment Plant (STP), with treated water fully reused for greenbelt development, dust suppression, and utilities. No industrial effluent is generated, as the plant follows a closed-loop water-cooling system. Periodic desilting of gulland drains, maintenance of stormwater channels, and installation of rainwater harvesting structures ensure effective runoff management and enhanced groundwater recharge.

Ambient Air Quality Monitoring (both manual and CAAQMS-based) indicates that PM_{10} , $PM_{2.5}$, SO_2 , and NO_2 concentrations remain within CPCB-prescribed norms at all monitored locations. Continuous Emission Monitoring Systems (CEMS) at process stacks are operational, calibrated, and linked to SPCB/CPCB servers as per the Environment (Protection) Rules, 1986. Fugitive emissions are effectively controlled through a comprehensive network of bag filters, bag houses, ESP-equivalent dust control infrastructure for grinding operations, covered conveyors, closed bulkers for fly ash, wind barriers, mechanical cleaning systems, and routine water sprinkling. Quarterly fugitive emission monitoring confirms compliance.

Noise monitoring conducted at all designated locations demonstrates that daytime and nighttime noise levels comply with EPA 1986 standards (75 dB(A) day & 70 dB(A) night). Noise mitigation is achieved through the use of acoustic enclosures, preventive maintenance of rotating equipment, and structured traffic management within the premises.

The plant has strengthened solid and hazardous waste management through authorization under HOWM Rules, 2016, ensuring scientific disposal of waste oil, grease, and other hazardous

materials. Kitchen waste is reused by nearby villagers for animal feeding, reducing organic waste accumulation. Portland Slag Cement (PSC) production promotes circularity by utilizing 65% slag as per BIS norms.

Significant progress has been made in greenbelt development, with plantation activities underway to cover 33% of the total project area (5.2 acres). Native, broad-canopied species have been selected in accordance with CPCB guidelines, contributing to dust attenuation, noise buffering, and carbon sequestration. More than 23,000 saplings (as reported) have been planted across plant boundaries, internal roads, and high-activity operational zones.

Under Corporate Environment Responsibility (CER) and CSR initiatives, the company has invested substantially in local socio-economic development, aligned with Ministry's OM (F. No. 22-65/2017-IA.III). A dedicated Environmental Management Cell, supported by qualified professionals, ensures continuous monitoring, reporting, and compliance. Annual self-environmental audits and periodic third-party environmental audits are conducted as per EC conditions.

Overall, the plant demonstrates a robust environmental management framework, proactive monitoring, and enhanced operational controls, ensuring adherence to all applicable statutory, regulatory, and EC-mandated environmental safeguards.

5.3 CSR, CER, AND COMMUNITY ENGAGEMENT

The cement plant has implemented multiple Corporate Social Responsibility (CSR) and Corporate Environment Responsibility (CER) initiatives, including:

- Skill development and livelihood training programs for local youth,
- Installation of solar-powered streetlights in peripheral villages,
- Periodic medical camps delivering healthcare support to over 6,000 beneficiaries,
- Infrastructure development for government schools and drinking-water facilities.

The plant has operationalized a community grievance redressal system, including a designated CSR officer. Future CSR planning focuses on long-term, theme-based interventions such as education, water access, women empowerment, and renewable energy support for villages.

5.4 CORRECTIVE AND PREVENTIVE ACTION (CAPA) RECOMMENDATIONS

The following corrective and preventive actions are recommended to further enhance environmental performance:

- Accelerate the upgradation of air pollution control systems, especially for Cement mill, and packing plant, to ensure consistent compliance during peak-load operations.
- Enhance greenbelt and plantation density along the plant boundary, material handling zones, and transportation corridors using native tree species.
- Strengthen water conservation initiatives by increasing rainwater harvesting capacity and improving storm water management across the plant premises.
- Conduct periodic third-party audits of ambient air, stack emissions, and groundwater to ensure data reliability and strengthen compliance assurance.
- Continue regular health surveillance programs, workplace safety training, and PPE compliance monitoring to maintain high occupational health and safety standards.

5.5 FINAL CONCLUSION

Based on the overall assessment, site verification, and clarifications provided by plant authorities:

- The cement plant demonstrates substantial compliance with Environmental Clearance conditions and statutory environmental obligations.
- Pollution control systems, environmental safeguards, and monitoring mechanisms are adequately installed and effectively functioning.
- Ongoing efforts in greenbelt development, CSR implementation, energy conservation, and emission reduction reflect a proactive commitment to sustainable industrial operations.
- No major non-compliances or environmental violations were identified that warrant regulatory action.

With continued diligence, timely implementation of pending improvement measures, and strict adherence to the Environmental Management Plan (EMP), the cement plant is well-positioned to maintain compliance with MoEF&CC norms and national environmental standards.

Final Recommendation:

This report, after due incorporation of all clarifications and field verifications, is hereby **submitted for consideration and clearance of Environmental Clearance conditions** for the Bokaro Cement Manufacturing Works (A unit of Dalmia Cement Bharat Limited, located at Bokaro Industrial Area, Balidih, Bokaro, Jharkhand).

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

Dalmia
cement
FUTURE TODAY



cement/ sugar/ refractories/ power!

Date: 02.03.2023

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

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.: EC238000JH159098; 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)

Authorized Signatory
Encl: As above

Dalmia
cement

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

EC25756417001 (08/07/2023)
SR: BCLTY AS 20-02/2023
G/Order No. 64/M/2023, (dt.17)
To: THE DIRECTOR (AWCH)
PIN: 834002, Ranchi, JH
From: MANOJ KUMAR VERMA, BOKARO
At: Dalmia
Post: 834002, Bokaro, Jharkhand
TRACK ON www.ecmca.gov.in
DIAL: 18002544000 - 24x7 Helpline

ement! sugar! refractories! power!

Date: 02.03.2023

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- Goraball, 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.: EC2380001H199098; 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

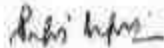
Dear Sir,

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 original copy of both Newspapers are being submitted herewith for your information and record.

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



Authorized Signatory
Encl: As above

Dalmia Cement (Bharat) Limited

Unit: Bokaro Cement Manufacturing Works

Plot No. IV/a-7(p)4, Bokaro Industrial Area, Balidih, Bokaro Steel City, Bokaro-827024, Jharkhand, India
T: +91 6542 253 228 / +91 6542 253 047 Toll Free 1800 200 2000 W: www.dalmiacement.com CIN: U90191TN199809LC033003

Registered Office: Dumka, District: Dumka, Jharkhand - 821 601, India.

A Dalmia Bharat Group Company. www.dalmiabharat.com

Dalmia
cement
FUTURE TODAY

622579544014 041017121536
UP POSTAL NO. SC. 402088
Dahurwa Post, Dist. Ranchi, Jharkhand
To: THE MEMBER SECRETARY, JSPCB
P.O. No. 1004, Dhurwa SO
Ranchi, Jharkhand
Vt: 836004
Avt: 41.081 Cashifax: 6.38
<Track on www.indiapost.gov.in>
<Dist: 18M0660600 <Dear Sir>>

cement! sugar! refractories! power!

Date: 02.03.2023

Member Secretary,
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- 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

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


Authorized Signatory
Encl: As above

Dalmia Cement (Bharat) Limited
Unit : Bokaro Cement Manufacturing Works
Plot No. IV/a-7(p)4, Bokaro Industrial Area, Balidih, Bokaro Town City, Bokaro-829016, Jharkhand, India
T : 03 6642 253 278 / +91 9542 213 147. Toll Free 1800 2000. W www.dalmiacement.com. CIN: L28101TN10001972033402
Registered Office : Chittamparan, District: Bhubaneswar, Odisha - 751 002, India.
A Dalmia Bharat Group Company, www.dalmiabharat.com

Dalmia
cement
FUTURE TODAY

EC237056424W NR-AN745796434
GP SOCIETY NO 80 4279620
Dated: 01.03.2023, 10:17
To: THE SECRETARY, RNC23
Plot: 874004, Bihari SJ
Fard: SHREE VENA-GRETA CEMENT

At: 0000
Tel: 0361-2611111
Track on www.indiancement.com
(Fax) 1500244000 (Aar: 1500244000)

cement! sugar! refractories! power!

Date: 02.03.2023

To
The Secretary,
Industry Department
Govt. of Jharkhand
Ranchi (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.

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

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


Authorized Signatory
Encl: As above

Dalmia Cement (Bharat) Limited
Unit: Bokaro Cement Manufacturing Works
Plot No. IV/a-7(p)4, Bokaro Industrial Area, Balidih, Bokaro Steel City, Bokaro-827014, Jharkhand, India
T: +91 8642 201 209 / +91 8642 233 047 Toll Free 1800 2020 W: www.dalmiacement.com CIN: L60291JN160009
Regional Office: Dumurapuram, District Bhojpur, Bihar, India - 821 801, India
A Dalmia Bharat Group Company; www.dalmiabharat.com

Dalmia
cement
FUTURE TODAY

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To
The Deputy Commissioner,
Bokaro Steel City
Bokaro Jharkhand

Date:02.03.2023

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

Souvik
02/03/23
Souvik
Authorized Signatory
Encl: As above

Dalmia Cement (Bharat) Limited
Unit : Bokaro Cement Manufacturing Works
Plot No. IV/a-7(p)4, Bokaro Industrial Area, Balidih, Bokaro Steel City, Bokaro-827014, Jharkhand, India
T +91 0642 253 2701 / +91 0642 253 047 | Toll Free 1800 1020 10 | www.dalmiacement.com | CIN: U50101TN1998PLC055983
Registered Office : Dalmia House, District: Durgam Cheruvu, Band 2/2/2 - 621 651, India
A Dalmia Bharat Group Company, www.dalmiabharat.com

Dalmia cement

FUTURE TODAY

cement! sugar! refractories! power!

Date:02.03.2023

Shri Ganesh Thakur Ji
Mukhiya
Village/Basti:Balidih
Gorabali (South) Gram Panchayat
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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Dear Sir,

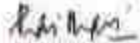
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Thanking You
Yours Faithfully

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


Authorized Signatory
Encl: As above


मुरिफत
1512 प्रवासा गोरबाली 150
03625-1512 (गोरबाली)

Dalmia Cement (Bharat) Limited

Unit: Bokaro Cement Manufacturing Works

Plot No. IV/A-7(P)4, Dalmia Industrial Area, Balidih, Bokaro Steel City, Bokaro-827014, Jharkhand, India
T: +91 (842) 253 2797 / +91 (842) 253 0427 / Toll Free: 1800 2030 10 / www.dalmiacement.com CIN: U0810CTM1998PL0010983

Registered Office: Dalmiapuram, District: Trinamooli, Bardhaman - 821 011, India

A Dalmia Bharat Group Company, www.dalmia.com

Dalmia
cement
FUTURE TODAY

SECRETARY, STATE LEVEL ENVIRONMENT IMPACT ASSESSMENT AUTHORITY
STATE LEVEL ENVIRONMENT IMPACT ASSESSMENT AUTHORITY
Office No. 1, 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.
Ranchi-834004
Jharkhand
Tel: 0659-2610001
Fax: 0659-2610002
E-mail: secretary@seiaa.org.in
Website: www.seiaa.org.in
Track on www.indiapost.gov.in
(Reg. No. 1289255896) (West. Reg. No. 1289255896)

cement! sugar! refractories! power!

Date: 02.03.2023

To
Member Secretary,
State Level Environment Impact Assessment Authority,
Nursery Complex, Near Dhurwa Bus Stand, 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- Gorabali, Notified Bokaro Industrial Area Under JIADA, Balidih Phase-4, Bokaro, Jharkhand. Reg. Submission of copy of Environmental Clearance.

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Thanking You
Yours Faithfully

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



Authorized Signatory
Encl: As above

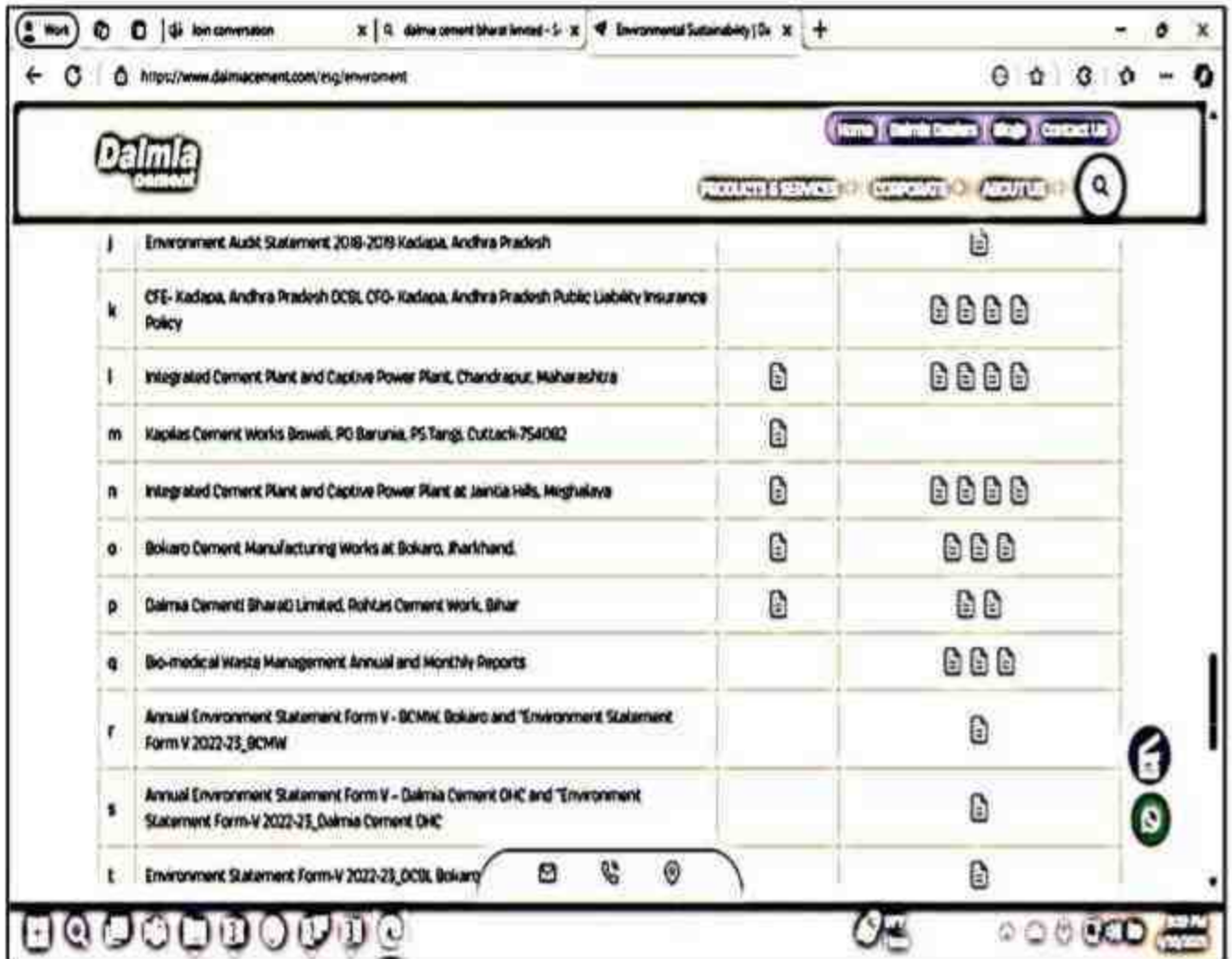
Dalmia Cement (Bharat) Limited

(Unit: Bokaro Cement Manufacturing Works)

Plot No. IV/a-7(p)4, Bokaro Industrial Area, Balidih, Bokaro Sorel City, Bokaro-827014, Jharkhand, India
T: +91 659 261 279 / +91 659 261 047 B: +91 659 261 278 W: www.dalmiacement.com CIN: L19118JH1999PEL000003
Registered Office: Dumriharan, District: Tinsukia, Assam, India - 781 051, India.
A Dalmia Bharat Group Company, www.dalmiaindian.com

Annexure-XXXVII

Half yearly EC Compliance report uploaded in company official website



The screenshot shows the Dalmia Cement website's environmental section. The URL is <https://www.dalmiacement.com/esg/environment>. The page features a navigation menu with 'Home', 'Dalmia Cement', 'ESG', and 'Contact Us'. Below the navigation, there are three main categories: 'FOODS & SERVICES', 'CORPORATE', and 'ABOUT US'. The main content area displays a list of environmental reports and statements, each with a corresponding document icon.

Letter	Report Title	Icon
j	Environment Audit Statement 2018-2019 Kadapa, Andhra Pradesh	📄
k	CFO- Kadapa, Andhra Pradesh DCBL CFO- Kadapa, Andhra Pradesh Public Liability Insurance Policy	📄 📄 📄 📄
l	Integrated Cement Plant and Captive Power Plant, Chandrapur, Maharashtra	📄 📄 📄 📄
m	Kapilas Cement Works Bowali, PO Barunia, PS Tangi, Cuttack-754002	📄
n	Integrated Cement Plant and Captive Power Plant at Jantia Hills, Meghalaya	📄 📄 📄 📄
o	Bokaro Cement Manufacturing Works at Bokaro, Jharkhand.	📄 📄 📄
p	Dalmia Cement Bharat Limited, Rohas Cement Work, Bihar	📄 📄
q	Bio-medical Waste Management Annual and Monthly Reports	📄 📄 📄
r	Annual Environment Statement Form V - BCMW, Bokaro and "Environment Statement Form V 2022-23_BCMW"	📄
s	Annual Environment Statement Form V - Dalmia Cement OMC and "Environment Statement Form-V 2022-23_Dalmia Cement OMC"	📄
t	Environment Statement Form-V 2022-23_DCBL Bokaro	📄

Annexure-XXXVIII

CAAQMS Monitoring data displayed at factory main gate



Annexure: XXXIX

EC Compliance report uploaded in Parivesh 2.0 Portal of MOEF and CC website

Your (Half Yearly Compliance Report) has been Submitted with following details	
Proposal No	SIA/JH/IND1/413722/2023
Compliance ID	680082978
Compliance Number(For Tracking)	EC/COMPLIANCE/680082978/2025
Reporting Year	2025
Reporting Period	01 Dec(01 Apr - 30 Sep)
Submission Date	29-11-2025
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.	

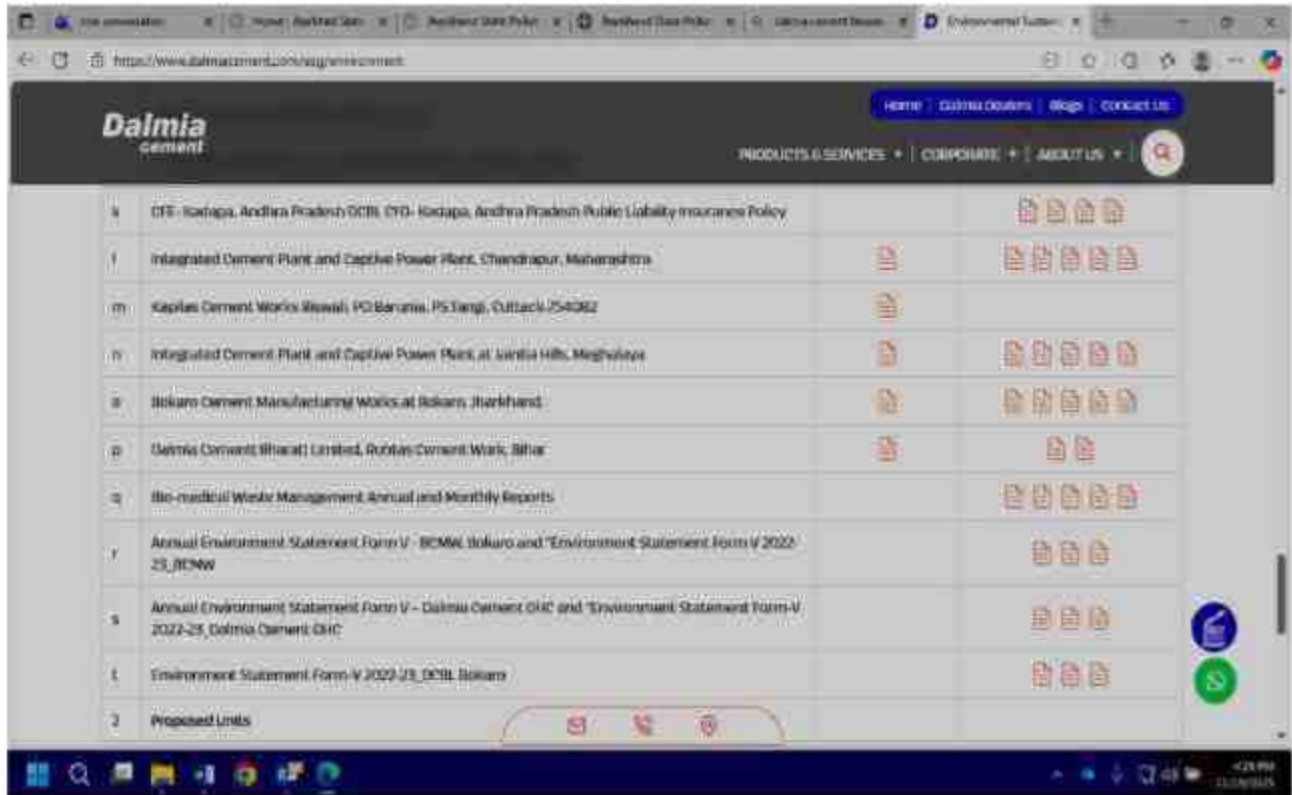
Your (Half Yearly Compliance Report) has been Submitted with following details

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.

Annexure: XXXX

Environment Statement Form -V uploaded in company official website



EC compliance report submitted to MOEF&CC,JSPCB Ranchi and JSPCB Regional Office Dhanbad and CPCB

Sanjeev Kumar Verma

From: Sanjeev Kumar Verma
Sent: Monday, December 1, 2025 11:31 AM
To: 'ro.ranchi-mef@gov.in'; 'chr-seiaajhr@gov.in'; 'dhanbadjspcb@gmail.com'; 'ranchijspcb@gmail.com'; 'ccb.cpcb@nic.in'; 'info@jseiaa.org.'
Cc: Sunilkumar Kawadooji Bhusari
Subject: FW: Submission of Half yearly Environment Clearance (EC) Compliance report of Bokaro Cement Manufacturing Works (Unit of Dalmia Cement Bharat Limited) Bokaro for the period of April 2025 to September 2025.
Attachments: BCMW Unit of DCBL EC Compliance report April 25 to Sep 25_11zon.pdf

Dear Sir,

Please find enclosed herewith half yearly Environment Clearance(EC) Compliance report of Bokaro Cement Manufacturing Works (Unit of Dalmia Cement (Bharat) Limited) Bokaro for the period of April 2025 to September 2025 for your information and record please.

EC Compliance report also uploaded in Parivesh 2.0 Portal of Ministry of Environment Forest and Climate Change .

Thanking You.

Regards

Sanjeev Verma
Environment Department
Dalmia Cement (Bharat) Limited
Bokaro, Jharkhand.

DCBL Public Liability Insurance policy copy



The Oriental Insurance Company Limited

This Document is Legally Signed

 Signer: DG THE ORIENTAL INSURANCE
 COMPANY LIMITED
 Date: 06 Oct 2025 14:53:19
 Reason: Signing Policy for OCL

LIABILITY INSURANCE (UNDER PUBLIC LIABILITY INSURANCE ACT, 1991) POLICY SCHEDULE

Policy No. :	312100/48/2026/268	Prev. Policy No. :	4007/18300773/05/000
Cover Note No. :		Cover Note Date :	
Insured's Code :	200898969	Issue Office code :	312100
Insured's Name :	M/s Dalmia Cement (Bharat) Ltd. (GSTIN: 33AADCA0414C128)	Issue Office Name :	KBO KOLKATA (GSTIN: 19AAACT0527P32U)
Address :	Dalmlapuram, Trichi Tamilnadu, Trichirapalli - 621651	Address :	7 RED CROSS PLACE KOLKATA WEST BENGAL 700001
	TRICHIRAPALLI, TAMIL NADU 621651		
Tel./Fax/Email :	/ / 0 / NA	Tel./Fax/Email :	/ / paripash.biwas@orientalinsurance.co.in

Agent/Broker Details

Dev. Off. Code :	
Agent/Broker :	LC0000000065 EXTRA COVER INSURANCE BROKERS PVT LTD
Address :	21 HEMANT BASU SARANI, DALHOUSE, KOLKATTA 700001 WEST BENGAL, MOB NO 9330224364, 9830015715, CALCUTTA, WEST BENGAL, 700001
Tel/Fax/Email :	03330282050/9330224364/

Period of Insurance :	FROM 00:00 ON 08/10/2025 TO MIDNIGHT OF 07/10/2026
Collection No. & Dt. :	DC_I /ND 1089200348 - 07/10/2025 GST INVOICE NO -1324108676 LINK ID
Gross Premium :	400,000 GST : 72000 Stamp Duty : -5 Total : 872,000
Co-insurance Details :	NE

Nature of Business :	MANUFACTURING
Category of Industry :	GREEN Policy Purchaser Category : Plant

Indemnity Limit :	Rs. 2,500,000,000 Any One Accident
	Rs. 5,000,000,000 Aggregate during the Policy Period (Not exceeding three times of any one accident of Indemnity Limit)

Retrospective Date :	08/10/2025
----------------------	------------

Contribution to the Environmental Relief Fund :	4,00,000.00 (included in the Total Premium)
---	--

TERRITORY/JURISDICTION :	INDIA / INDIA
--------------------------	---------------

The insurance under this policy is subject to conditions, clauses, warranties, exclusions which are available on Company's website www.orientalinsurance.org.in or on demand from the policy issuing office.
Specific Conditions if any :

Place :	KOLKATA
Date :	07/10/2025



Page 1 of 5



The Oriental Insurance Company Limited

This Document is Digitally Signed

Signer: **DD THE ORIENTAL INSURANCE COMPANY LIMITED**
Date: **Tue, Oct 7, 2025 13:43:52 IST**
Reason: **Signing Policy for CDR**



Attached to and forming part of policy number 312100/48/2026/208

In the event of a claim under the policy exceeding Rs. 1 lac or a claim for refund of premium exceeding Rs. 1 lac, the insured will comply with the provisions of the AML policy of the Company. The AML policy is available in all our operating offices as well as Company's website.

If the policy has an imposed excess clause in the schedule, then higher of the two, Compulsory excess or imposed excess, would prevail.

This Agreement excludes any loss or claims arising from:

- ⌄ Radioactive contamination exclusion clause
- ⌄ Patent and Trade secret infringement
- ⌄ Fines and Penalties uninsurable under the Law.
- ⌄ Punitive and exemplary damages
- ⌄ War, Invasion, acts of foreign enemies including by not limited to, acts involving the use of operation, as a means of inflicting harm or causing loss, of any computer, computer system, software programme, malicious code, computer virus or process or any other electronic system or any other electronic system, hostilities or warlike operations (whether war be declared or not), civil war, rebellion, revolution, insurrection, civil commotion assuming the proportions of or amounting to an uprising, military or usurped power.
- ⌄ Liability arising out of Terrorism can be covered upto a limit of INR700,000,000 any one policy.
- ⌄ Nuclear Energy Risks exclusion clause
- ⌄ Gradual Environmental Impairment Exclusion Clause
- ⌄ North American Absolute Environmental Impairment Exclusion Clause
- ⌄ Airlines, aircraft and airside operation of airports, including refuelling, control tower liability and construction & repair work within the airport perimeter.
- ⌄ Workmen's Compensation Insurance.
- ⌄ Any Electro Magnetic Fields (EMF) liability arising from Electric Utilities and Manufacturers of Mobile Phones.
- ⌄ Public Liability of Indian Railways as a railway operator.
- ⌄ Manufacturers and/or production and/or storage of fireworks, fuses, ammunition, cartridges and explosives.
- ⌄ Any liability arising from or in anyway connected to the use or incorporation of, exposure to, contact with or contamination by asbestos (including claims expense) whether incurred directly or indirectly.

Excess : 0.25% of ADA limit subject min of Rs. 1000/- for each and every Claim.
5% of claim amount minimum of Rs.5.00 lacs for each & every claim.

Financier Names are as per the list attached:

Not applicable

Place : KOLKATA
Date : 07/10/2025





The Oriental Insurance Company Limited

This Document is Digitally Signed

Digitally signed by The Oriental Insurance Company Limited
Date: Tue, 07 Oct 2025 11:49:52 IST
Reason: Signing Process OK

Attached to and forming part of policy number 312100/48/2026/208

This Agreement excludes any loss or claims arising from:

- ⌄ Financial Guarantee and Insolvency
- ⌄ Sanction limitation and exclusion clause
- ⌄ Communicable disease exclusion clause
- ⌄ Cyber liability exclusion clause
- ⌄ No Cover for products manufactured, assembled, formulated in USA, Canada
- ⌄ Fiduciary liability, unless where incidental to operations.
- ⌄ Ocean marine liability including shipowner's liability
- ⌄ Any liability arising out of Mining processing manufacturing, distributing storage and/or removal of pure asbestos and/or products made entirely or mainly of asbestos.
- ⌄ Use of product made entirely or mainly of asbestos.
- ⌄ Ownership, operation or use of:
- ⌄ Aircraft and air cushioned vehicles including construction repair or installation work on aircraft.
- ⌄ Vessels including their navigation
- ⌄ Motor insurance as per Motor Vehicles Act 1988 in India or equivalent in any other jurisdiction with the exception of Motor Excess Insurance.
- ⌄ Manufacture and/or production of
- ⌄ Fireworks, fuse(s), cartridges, ammunition, powder, nitroglycerine or any explosives
- ⌄ Mining risks other than, Drift, and/or Open-cast (applicable to General Public Liability only).
- ⌄ Offshore related

This Agreement excludes any loss or claims arising from:

- ⌄ Underground and underwater mines and collieries and all underground services in connection therewith.
- ⌄ Product Liability and product completed operations
- ⌄ Absolute professional liability exclusion
- ⌄ Contractual Liability assumed by the Insured and which would not have attached in the absence of such contract.
- ⌄ Perfluorinated compounds, perfluoroalkyl and polyfluoroalkyl substances (PFAS) Exclusion
- ⌄ Product Liability, recall, warranty, guaranty and inefficacy
- ⌄ Professional Indemnity, D&O liability, Clinical Trials, Medical Malpractice
- ⌄ Pure & Consequential financial loss
- ⌄ Political Risks, War and Sabotage, Terrorism Liability NMA 2018
- ⌄ Workmen Compensation, Employer's liability
- ⌄ Auto Liability.
- ⌄ Aviation Liability, Airside Liability, Damage to aircraft, Drone Liability
- ⌄ Marine Liability, Hauler Liability, Damage to Watercraft, Vessel
- ⌄ Asbestos, Silica, lead
- ⌄ GMO, TSE, Toxic Mold, EMF
- ⌄ TAD lines
- ⌄ PFAS, PFOA
- ⌄ Fluctuation/Failure to Supply

Place : KOLKATA
Date : 07/10/2025



Page 3 of 5



The Oriental Insurance Company Limited

This Document is Digitally Signed

Signer: OS THE ORIENTAL INSURANCE
COMPANY LIMITED
Date: 07 OCT 2025 13:43:52 IST
Reason: Signing Policy for UICL



Attached to and forming part of policy number 312100/48/2025/208

Entered By : MR SANJOY BHATTACHARYYA

Examined By : R.K.DAS

Policy Printed By : 330887

IP :

Digitally Signed
By


Policy Printed On : 07-OCT-25 13:43:52

MAC :

Authorized Signatory

This is an electronically generated document (Policy Schedule) The Policy document duly stamped will be sent by post.
In case of any query regarding the Policy please call Toll Free No. 1800 11 8486 and 011 33208486.

CIN: U66010DL1047GO1007158 All the Amounts mentioned in this policy are in Indian Rupees

IRDA Regn. No. 556 - Now you can buy and renew selected policies online at www.orientalinsurance.org.in and through other digital platforms including Whatsapp (Send "H" to  9560711200)

Place : KOLKATA

Date : 07/10/2025



Page 5 of 5



The Oriental Insurance Company Limited

This Document is Digitally Signed

Source: DR THE INSURANCE COMPANY LIMITED
Date: 07/10/2025 12:42:57:07
Reason: Signing Key for OICL

Attached to and forming part of policy number 312100/49/2025/208

OTHER TERMS & CONDITIONS

- Δ Claims Made policy
- Δ No knowledge of circumstances that might lead to a loss
- Δ No additional limits to be bought without concurrence of OICL
- Δ If there exists any other policy covering the same risk, our policy would contribute proportionately in case of a claim
- Δ The insured should not have any global policy for higher limits, i.e. our policy should not act as a Deductible buyback for the larger policy
- Δ Above approval is subject to Written confirmation from the client, of no known or reported losses / circumstances which may lead to a claim / liability in future.
- Δ Right to defend
- Δ Designated premises list & details of surrounding area to be provided prior to binding
- Δ List of hazardous goods to be provided prior to binding
- Δ Warranted that All environmental clearances and operating licenses from regulatory authorities to be in place
- Δ Warranted that Accurate record of hazardous material being handled should be maintained at all times
- Δ Warranted that safety audits to be regularly conducted at prescribed time limits
- Δ Warranted that All regulatory compliances in place at all times
- Δ Warranted that Disaster Management Plan with regard to on-site emergency response plan, mock drills, trained safety personnel to be available and followed at all times
- Δ Warranted that all safety and security protocols to be followed at all times
- Δ Any change in exposure / risk to be duly informed to the Iw and approval to be taken for the same

DEDUCTIBLE: 5% of claim amount minimum of Rs 3.00 lacs for each & every claim. Any other deductible/policy excess, if mentioned elsewhere in this policy schedule, is not valid.

EXTENSIONS ALLOWED UNDER THE POLICY As per Public Liability Act, 1981 insurance policy. HO Approval uploaded.

RETRO DATE: 08/10/2024- LIMIT: Rs. 15,00,00,000 (AOY) / Rs. 5,00,00,000/- (AOA)

Warranted that in case of dishonour of premium cheque(s) the Company shall not be liable under the policy and the policy shall be void abinitio (from inception)

In witness whereof the undersigned being authorised by and on behalf of the Company has/have herein to set his/their hands at KBO KOLKATA (GSTIN: 19AAACT0627F3ZU) on 07TH DAY OF OCTOBER 2025

Place : KOLKATA

Date : 07/10/2025

