

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

Proposal No	SIA/JH/IND/105812/2017
Compliance ID	1227060422
Compliance Number(For Tracking)	EC/M/COMPLIANCE/1227060422/2026
Reporting Year	2026
Reporting Period	01 Jun(01 Oct - 31 Mar)
Submission Date	22-05-2026
RO/SRO Name	Shri Senthil Kumar Sampath
RO/SRO Email	agnv156@risc.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.

# Dalmia cement

*cement! sugar! refractories! power!*

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 Dalmia Cement (Bharat) Limited, Bokaro for the period of October 2025 to March 2026.**

Ref. EC Letter no. EC/SEIAA/2016-19/2138/2019/474, Ranchi, Dated:23.09.2019.

Dear Sir,

Please find enclosed herewith half yearly Environment Clearance compliance report 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 website and the soft copy of EC Compliance report is also being sent through email to following authorities:

msseiaa.jh@gmail.com; ro.ranchi-mef@gov.in; ranchijspcb@gmail.com, ccb.cpccbi@nic.in  
dhanbadspcb@gmail.com, info@seiaa.org,chr-seiaajhr@gov.in

Thanking you.

Yours Sincerely,

For Dalmia Cement (Bharat) Limited, Bokaro



Authorized Signatory

Copy:

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

**Enclosed:** EC Compliance Report along with 41 nos. of annexures.

# **DALMIA CEMENT (BHARAT) LIMITED, BOKARO**

**Environment Clearance Compliance Report of Dalmia Cement (Bharat) Limited from October 2025 to March 2026.**

**EC Letter No.-EC/SEIAA/2018-19/1997/2138/2019/474 Ranchi, Dated:23.09.2019.**



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

# DALMIA CEMENT BHARAT LIMITED.BOKARO

Plot No.: IV/A-7(P), Bokaro Industrial Area, Balidih, Bokaro Steel City,  
Jharkhand — 827014.

## ENVIRONMENT CLEARANCE COMPLIANCE REPORT OF DALMIA CEMENT (BHARAT) LIMITED FOR THE PERIOD OF OCTOBER 2025 TO MARCH 2026

EC Letter No.-EC/ SEIAA / 2018-19 /2138/ 2019/ 474, Ranchi Dated:23.09.2019.

	EC Compliance Condition	EC Compliance Status
I	<b>Specific Condition</b>	
	<p>This Environmental Clearance is valid subject to the following condition below —</p> <p>That this project has-</p> <p>a. Obtained all legal rights to operate at concerned place.</p> <p>b. Complied with all existing concerned laws of the land and</p> <p>c. Complied with the decisions of SEIAA on the issue of Environmental Clearance till date.</p>	<p><b>Complied with.</b></p> <p>a. Obtained all necessary statutory clearance from concern authority to operate our cement grinding unit.</p> <p>b. Complied all legal law of land with respect to our unit.</p> <p>c. Complied with.</p>
II	<b>Statutory Compliance</b>	
1	<p>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.</p>	<p><b>Not Applicable.</b></p> <p>The unit is located in notified industrial area at JIADA, Bokaro, Jharkhand with due allocation through Govt of Jharkhand.</p>
2	<p>The project proponent shall obtain clearance from the National Board for Wildlife, if applicable.</p>	<p><b>Not Applicable.</b></p> <p>There is no wild life sanctuary within 10 km radius of our unit. The unit is located in notified industrial area at JIADA Bokaro</p>
3	<p>The project proponent shall prepare a Site-Specific Conservation Plan &amp; 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)</p>	<p><b>Not Applicable.</b> The unit is located in notified industrial area at JIADA Bokaro. There is no record of schedule -I species within 10 km radius of our unit. Therefore, there is no need for site specific conservation plan/ wild life management plan.</p>

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.	<b>Complied with.</b> Our Unit has obtained CTE from JSPCB Ranchi vide letter no JSPCB/HO/RNC/CTE-11785214/2022/96 Dated: 06.03.2022. CTO obtained and renewed vide letter no JSPCB/HO/RNC/CTO-14970501/2023/503, Dated 15.03.2023 for the plant expansion from 3.7 MTPA to 4.50 MTPA from JSPCB Ranchi, CTO valid up to 31.03.2027. <b>CTE and CTO copy attached as per Annexure-1 and Annexure-2</b>
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	<b>Complied with.</b> The permission for water connection has been obtained from JIADA Bokaro vide Agreement dated 17.03.2011. The water agreement copy with JIADA is attached herewith as per <b>Annexure 3</b> .
6	The project proponent shall obtain authorization under the Hazardous and other Waste Management Rules, 2016 as amended from time to time	<b>Complied with.</b> DCBL, Bokaro has obtained Authorization of Hazardous waste from JSPCB, Ranchi vide letter no JSPCB/HO/RNC/HWM-9675664/2021/26, Dated 09.04.2021, valid up to 31.12.2026. Copy of the same attached as per <b>Annexure 4</b>
7	No mining /activity shall be undertaken in the forest land or deemed forest without obtaining prior forestry clearance.	Not Applicable to our unit.
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.	<b>Agreeable</b>
9	Environmental Clearance is subject to obtained prior clearance from forestry and wildlife angle including clearance from standing committee of NBWL as may be applicable to this project (in case any fauna 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 located within 10 km of protected area.	<b>Not applicable.</b> The unit is located in notified Industrial area at JIADA, Bokaro, Jharkhand with due allocation through Govt of Jharkhand.
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 or	<b>Not applicable.</b> The unit is located in notified Industrial area at JIADA, Bokaro, Jharkhand with due allocation through Govt of Jharkhand.

	accrue to them unless all clearance are obtained.	
<b>III</b>	<b>Air quality monitoring and preservation</b>	
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 (E) dated 25 August 2014 (Cement) and subsequent amendment dated 9 <sup>th</sup> May 2016 (Cement) and connected to SPCB and CPCB online server and calibrate these system from time from time to according to equipment supplier specification through labs recognized under Environment (Protection) Act, 1986 or NABL accredited laboratories. Monitor fugitive emissions in the plant premises.	<p><b>Complied with.</b> The Unit has already installed CEMS (Continuous emission monitoring system) at process stack of Bag house stack Bag House stack connected with VRM (Vertical Roller Mill). The stack CEMS is directly connected with JSPCB and CPCB servers. Real-time online stack emission monitoring data continuously transmitted to JSPCB and CPCB server. Regular CEMS maintenance and calibration are carried out done in every three months.</p> <p>Fugitive emission are being regularly monitored within the plant premises on a monthly basis. The fugitive emission monitoring report is regularly submitted to JSPCB and CPCB as a part of EC compliance report.</p> <p>Online CEMS and manual stack emission monitoring data along with CEMS Calibration report for the period of October 2025 to March 2026 are attached as per <b>Annexure-5</b></p>
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.).	<p><b>Complied with.</b> We are regularly monitoring fugitive dust emission through NABL and JSPCB approved laboratory on monthly basis. Copy of fugitive dust emission monitoring reports from October 2025 to March 2026 is attached as per <b>Annexure-6</b></p>
3	The project proponent shall install system to carryout to Ambient Air Quality monitoring for common/criterion parameters relevant to the main pollutants released (e.g. PM-10 and PM-2.5 in reference to PM emission, and SO2 and NOx in reference to SO2 and NOx emissions) within and outside the plant area at least at four locations (one within and three outside the plant area at an angle of 120° each), covering upwind and downwind directions. (case to case basis small plants: Manual, Large plants: Continuous)	<p><b>Complied with.</b> Dalmia Cement (Bharat) Limited Bokaro is a cement grinding unit. We have installed 2 Nos CAAQMS Continuous Ambient Air Quality Monitoring Station in up wind and downwind direction with parameter of PM-10, PM-2.5, SO2 &amp; NOx, at the plant boundary location of the unit. CAAQM monitoring data regularly transmitting to JSPCB, and CPCB server. The same data is also displayed at the factory main gate.</p> <p>The unit have also installed four manual AAQM monitoring station one within and three plant boundary location at an angle of 120-degree direction of the plant boundary location.</p> <p>CAAQMS and Manual AAQM monitoring</p>

		<p>instruments are regularly maintenance and calibration done as per schedule.</p> <p>Six monthly average CAAQMS report, Manual AAQM report and CAAQMS instrument calibration report attached for the period of October 2025 to March 2026 as per <b>Annexure-7</b></p>
4	<p>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&amp;CC, Zonal office of CPCB and Regional of SPCB along with six monthly monitoring report</p>	<p><b>Complied.</b> Continuous stack emission monitoring report attached as per Annexure: 5 Fugitive dust emission monitoring report attached as per Annexure: 6. CAAQMS and Manual AAQMS Ambient Air quality monitoring report attached as per Annexure :7</p> <p>Continuous stack emission, air quality monitoring and results of manual stack monitoring and manual monitoring of air quality/fugitive emissions are being regularly submitting as a part of EC compliance report to Regional office of MoEF&amp;CC, Zonal office of CPCB and Regional of SPCB.</p>
5	<p>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.</p>	<p><b>Complied.</b> The Unit has installed 2 nos Bag house in VRM mills section for the control of air pollution. The Bag house stack emission maintained below the 30 mg/Nm<sup>3</sup>. Apart from this unit has also installed 33 nos of nuisance bag filters in all material transfer points to control of the fugitive dust emission. List of APC system installed in plant attached as per <b>Annexure:8</b></p> <p>All material discharge points and belt conveyors are fully covered for the control off fugitive dust emission. Raw materials and products are stored in silos and covered sheds. regular cleaning of roads by vacuum road sweeping machine. Good housekeeping is being maintained all around the plant.</p>
6	<p>The project proponent shall provide leakage detection and mechanized bag cleaning facilities for better maintenance of bags.</p>	<p><b>Complied.</b> Regular maintenance of plant equipment's and bag filters, leakage checking, cleaning of bag filters is being done by dedicated mechanical maintenance team as per schedule. Pollution control equipment maintenance report for the Period of October-2025 to March 2026 attached as per <b>Annexure-9</b></p>

7	Pollution control system in the cement plant shall be provided as per the CREP Guidelines of CPCB.	<p><b>Complied.</b> All Applicable CREP compliance conditions complied. CREP compliance report attached as per <b>Annexure: 10</b></p>
8	Sufficient number of mobile or stationery vacuum cleaners shall be provided to clean plant roads, shop floors, roofs, regularly.	<p><b>Complied.</b> Regular road sweeping and floor cleaning is being done by vacuum road sweeping machine for the control of fugitive dust emission. Good housekeeping is maintained in all around the plant premises area. Photographs of road sweeping machine with cleaning of roads/floor and log book of road sweeping machine for the period of <b>(October-2025- March 2026) attached as per Annexure :11</b></p>
9	Ensure covered transportation and conveying of raw material to prevent spillage and dust generation; Use closed bulkers for carrying fly ash.	<p><b>Complied.</b> All raw materials are being transported in covered belt conveyors. Raw material &amp; products are being transported in covered tarpaulin trucks / bulkers /wagons for the control of material spillage as well as control of fugitive dust emission. Closed bulkers are used for carrying fly ash. Covered belt conveyers and Raw material and Product transportation photographs attached as per <b>Annexure :12</b></p>
10	Provide wind shelter fence and chemical spraying on the raw material stock piles;	<p><b>Complied.</b></p> <ol style="list-style-type: none"> <li>1.We have constructed plant boundary walls along with thick green belt all around the plant which act as wind shelter or wind shield for contaminants.</li> <li>2.Constructed boundary wall and thick greenbelt in between plant and field hostels which act as wind shields.</li> <li>3.We have also constructed walls around packing unit and raw material yard, which act as wind shelter.</li> <li>4.Raw materials and product is stored in covered sheds and silos.</li> <li>5.Slag having moisture which is stored covered tarpaulin sheet.</li> <li>6. No any raw materials and product stored in open area.</li> </ol> <p>Plant boundary walls, plant inside boundary walls wind shelter photographs attached as</p>

		per <b>Annexure-13</b>
11	Have separate truck parking area and monitor vehicular emissions at regular interval.	<b>Complied.</b> Separate truck parking facility provided to park trucks. Good housekeeping maintained in truck parking area. Regular checking of PUC certificates of vehicles which entering in plant for the control of vehicular emission. Truck parking photographs and few PUC certificate attached <b>as per Annexure: 14</b>
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.	<b>Complied.</b> All raw materials and products are being transported inside the plant by covered belt conveyers and covered trucks for the control of fugitive dust emission.  Raw materials and product transported outside of the through covered wagons, bulker, covered trucks with tarpaulin sheet for the control of fugitive dust emission. All Photographs attached as per Annexure: 12  Regular water sprinkling is being done inside and outside plant road by water spray tanker for the control of fugitive dust emission on plant outside roads. Roads and work place area are being cleaned by road sweeping machine. All fugitive dust emission control measures and log book of water spray tanker attached as per <b>Annexure :15</b>
13	Ventilation system shall be designed for adequate air changes as per ACGIH Document for all tunnels, motor houses, cement bagging plants.	<b>Complied.</b> Air ventilation system arrangement done for adequate air change in motor houses and packing plant area. Ventilation arrangement Photographs attached as per <b>Annexure: 16</b>
IV	<b>Water quality monitoring and preservation:</b>	
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)	Our unit is standalone cement grinding unit and does not require water for process. The water is only used for equipment cooling in closed loop. Makeup water is only added. Therefore, there is no effluents generated from our process. 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.	<p><b>Not Applicable.</b> No Ground water withdrawal from our plant. The permission for water connection has been obtained from JIADA for plant requirements and for the domestic uses. However, we are regularly monitoring ground water quality and depth level in surrounding village wells.</p> <p>Water depth level report and Ground water quality analysis report from NABL accredited laboratory for the period of October 2025 to March 2026 is attached as per <b>Annexure-17</b></p>
3	The project proponent shall submit monthly summary report of continuous effluent monitoring and results of manual effluent 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><b>Complied</b></p> <p>There is no effluent generation from our unit as it does not require water for its process. Our unit has STP 100 KLD for the treatment of domestic waste water. STP treated water quality analysis report from October 2025 to March 2026 attached as per <b>Annexure 18</b>. STP Treated water is being used in greenbelt development and dust suppression. Ground water monitoring reports are being regularly submitted to MoEF&amp;CC regional office, Zonal office of CPCB and regional office of SPCB as a part of EC compliance report. Ground water quality analysis report attached as per <b>Annexure-17</b></p>
4	Adhere to 'Zero Liquid Discharge	<p><b>Complied with.</b> Zero Liquid Discharge is being maintained.</p>
5	Sewage Treatment Plant shall be provided for treatment of domestic waste water to meet the prescribed standards.	<p><b>Complied with.</b></p> <p>100 KLD STP is in operation for the treatment of domestic waste water. Treated sewage water quality meet the prescribed standard norms. Treated water quality analysis report from October 2025 to March 2026 attached as per <b>Annexure-18</b></p>
6	Garland drains and collection pits shall be provided for each stock pile to arrest the run-off in the event of heavy rains and to check the water pollution due to surface run off.	<p><b>Complied with.</b> Garland drain are existing in plant area to accumulate run off water in a settling pit. clay, sand silt barrier / collection pits are existing in the plant area to accumulate run off water during heavy rains. <b>Annexure-19</b></p>
7	The project proponent shall practice rainwater harvesting to maximum possible extent.	<p><b>Complied with.</b> Rain water harvesting system implemented in our unit to recharge the ground water and same is also approved from Ground Water Board, Ranchi. Vide</p>

		letter no 320 Ranchi Dated 06.09.2013, attached as per <b>Annexure: 20</b> . We have also renovation of wells and pounds near surrounding village area to conserve the rain water.
8	Water meters shall be provided at the inlet to all unit processes in the cement plant.	<b>Complied</b> . Water meter installed at inlet of our unit. water flow meter photographs attached as per <b>Annexure: 21</b>
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.	<b>Complied</b> . Optimum use of water is practiced and all necessary efforts has been made to reduce water consumption in our plant. STP treated water is used for greenbelt development and dust suppression.
<b>V</b>	<b>Noise monitoring and prevention</b>	
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.	<b>Complied</b> Noise level are being regularly monitored in different locations of our unit. Noise level report is being regularly submitted to Ministry, CPCB, JSPCB as a part of six-monthly EC Compliance report. Six monthly noise level report (October 2025 to March 2026) attached as per <b>Annexure-22</b>
2	The ambient noise levels should conform to the standards prescribed under E(P)A Rules, 1986 viz. 75 dB(A) during day time and 70 dB(A) during night time.	<b>Being complied.</b>
<b>VI</b>	<b>Energy Conservation measures :</b>	
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.	<b>Complied with</b> . We have installed solar plate light in plant, colony area. Photographs of Solar light attached as per <b>Annexure:23</b>
2	Provide the project proponent for LED lights in their offices and residential areas.	<b>Complied with</b> . LED bulbs and tube lights are being used in all offices and residential areas for the lighting purpose.
3	Maximize utilization of fly ash, slag and sweetener in cement blend as per BIS Standards. Waste management	<b>Complied with</b> . Slag and fly ash are being used as a raw material for cement manufacturing as per BIS norms.
<b>VII</b>	<b>Waste management</b>	

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.	<b>Complied with.</b> Hazardous waste Authorization obtained from JSPCB vide letter no JSPCB/HO/RNC/HWM-9675664/2021/26, Dated 09.04.2021, which is valid up to 31.12.2026.  Hazardous waste such as used oil, waste oil disposed off through authorized vendor from JSPCB/CPCB.
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)	<b>Complied with.</b> Kitchen waste are being utilized by nearby villagers to fed to their animals.
<b>VIII</b>	<b>Green Belt:</b>	
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	<b>Complied with.</b> We have developed greenbelt in 33% of the total land of unit. Tree plantation report attached as per <b>Annexure-24</b>
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	Dalmia Cement (Bharat) Limited Bokaro is a standalone cement grinding unit for the manufacturing of blended cement by utilizing industrial waste -such as slag, fly ash and gypsum. Only small quantity of coal is used in HAG for moisture drying in raw material slag. The GHG emission reduction action plan report attached as per <b>Annexure-25</b> .
<b>IX</b>	<b>Public hearing and Human health issues</b>	
1	Emergency preparedness plan based on the Hazard Identification and Risk Assessment (HIRA) and Disaster Management Plan shall be implemented.	<b>Complied with.</b> On side emergency preparedness plan, Hazard Identification and Risk Assessment (HIRA) already prepared and same is approved by Chief Factory Inspector of Jharkhand. Approval copy from Chief Inspector Factories attached as per <b>Annexure: 26</b>
2	The PP shall provide Personal Protection Equipment (PPE) as per the norms of factory Act.	<b>Complied with.</b> All Personal protective equipment's (PPE) Safety shoes, Nose mask, safety helmet, earplug, provided to all employees and contract workers for their safety. PPEs issued for the period of October 2025 to March 2026 attached as per <b>Annexure :27</b>  Safety awareness training is being regularly

		done among the employees for the awareness of safe working culture.
3	Provision shall be made for the housing of construction labour 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.	<b>Complied with.</b> All necessary infrastructure / facility provided to construction labour during construction phase of the project and also removed temporary houses after completion of project.
4	Occupational health surveillance of the workers shall be done on a regular basis and records maintained as per the Factories Act	<b>Complied</b> Periodic medical health checkup is being regularly done to all employees and workers every year, reports are being maintained as per Factory Act. Few reports attached as per <b>Annexure-28</b>
<b>X</b>	<b>Corporate Environment Responsibility</b>	
1	The project proponent shall comply with the provisions contained in this Ministry's OM vide F.No. 22-65/2017-IA.III dated 1 <sup>st</sup> May 2018, as applicable, regarding Corporate Environment Responsibility.	<b>Being Complied.</b> we are regularly doing CER surrounding village area which is as follows: 1. Village Wells and pond renovation done surrounding village area and maintaining for water conservation. 2. Street light & solar light installed in village 3. Tree plantation done surrounding village 4. Toilet constructed in schools and community area. 5. Renovation of school building, community hall and Aganwadi surrounding village area. CER report for the period <b>October 2025 to March 2026</b> attached as per <b>Annexure: 29</b>
2	The company shall have a well laid down environmental policy duly approved by the Board of Directors. The environmental policy should prescribe for standard operating procedures to have proper checks and balances and to bring into focus any infringements/deviation/violation of the environmental/forest/wildlife norms/conditions. The company shall have defined system of reporting infringements/deviation/violation of the environmental/forest/wildlife norms/conditions and/or shareholders/stakeholders. The copy of the board resolution in this regard shall be submitted to the MoEF&CC	<b>Complied with.</b> DCBL Bokaro have Environmental Management Policy duly approved from Board of Director, copy of Environment policy attached herewith as per <b>Annexure-30.</b>

	as a part of six- monthly report.	
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 the organization.	<b>Complied</b> 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) in our unit. Environment Management Cell organization structure attached as per <b>Annexure :31</b>
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 Ministry/Regional Office along with the Six-Monthly Compliance Report.	Action plan for EMP implementation and Environmental responsibility matrix 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 is being regularly submitted to Ministry and his Regional Office as a part of EC compliance report. Expenditure on Environment Protection (Capital cost & Recurring cost) from October 2025 to March 2026 is attached as per <b>Annexure-32</b>
5	Self-environmental audit shall be conducted annually. Every three years third party environmental audit shall be carried out.	<b>Complied with.</b> Self-Environment audit is being regularly done for the continual improvement of environment performance in our plant. Third party Environment audit is also being done in every three years. Internal Environment Audit report and Third-party Environment audit report attached as per <b>Annexure-33.</b>
6	All the recommendations made in the Charter on Corporate Responsibility for Environment Protection (CREP) for the Mineral Beneficiation plants shall be implemented. Miscellaneous:	Not relevant.
<b>X</b>	<b>Miscellaneous</b>	
1	The project proponent shall make public the environmental clearance granted for their project along with the environmental conditions and safeguards at their cost by prominently advertising it at least in two local 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.	<b>Complied herewith.</b> We have advertised our Environmental Clearance in local new papers (Hindustan Times Ranchi, Hindi News Aaj), which are widely circulated in the region and copy of the same attached herewith as per <b>Annexure-34.</b>

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.	<b>Complied.</b> We have submitted Environment Clearance copy to local Panchayat and other Govt. bodies, district head quarter. receiving copy of the same attached herewith as per <b>Annexure-35</b>
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.	<b>Complied.</b> EC Compliance report uploaded in company official website copy of the same is attached as per <b>Annexure -36</b>
4	The project proponent shall monitor the criteria pollutants level namely; PM <sub>10</sub> , SO <sub>2</sub> , NO <sub>x</sub> (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.	<b>Complied.</b> On-line environment monitoring data is being regularly displayed at factory main gate for the notice of public. Environment monitoring reports along with EC compliance report uploaded in company official website. Environment monitoring data Display board photographs attached as per <b>Annexure-37</b>
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.	<b>Complied with.</b> Six monthly EC Compliance report uploaded in website of the Ministry of Environment Forest and Climate Change at Environment Clearance portal Parivash 2.0 Portal. Acknowledgement copy from MoEF and CC attached <b>as per Annexure :38</b>
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.	<b>Complied</b> Environment Statement in Form V is regularly submitted to JSPCB Ranchi Office & JSPCB Regional office Dhanbad. Last Environment Statement was submitted vide our letter no. DCBL/ENV-ES/25-26/01, Dated 20.09.2025. Environment Statement (Form -V) uploaded in company official website attached as per <b>Annexure-39</b>
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.	Date of final approval: 04.02.2019 for change of energy efficient motor in VRM mill (for 3.70 MTPA EC) Date of financial closure: 10.10.2019 (for 3.70 MTPA EC) Date of Land development: There is no land development as the change happen due to change in energy efficient motor replaced 10.01.2020. Date of Production date: 06.03.2020 (3.70 MTPA) Commitments and recommendations made in EIA/EMP is being complied. DCBL located in notified industrial area (JIADA), hence,

		Project exempted for public hearing.
7(I)	The project authorities must strictly adhere to the stipulations made by the State Pollution Control Board and the State Government.	Noted & agreed.
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.	Commitments and recommendations made in EIA/EMP is being complied. DCBL located in notified industrial area (JIADA), hence, Project exempted for public hearing.
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 with. Last Environment Clearance compliance report for the period of April 2025 to September 2025 uploaded MoEF &CC website on dated 29.11.2025 and EC compliance report submitted on 01.12.2025 by email. SEIAA, Regional Office of MoEF&CC at Ranchi, Jharkhand State Pollution Control Board (JSPCB) Ranchi, JSPCB Regional Office Dhanbad and Central Pollution Control Board (CPCB) email copy and EC compliance covering letter of the same attached as per <b>Annexure: 40</b>
9	Concealing factual data or submission of false /Fabricated data and failure to comply with any of the conditions mentioned above may results 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 condition or stipulated any further condition in the interest of Environment Protection.	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 and attract action under the provisions of Environment (Protection) Act, 1986.	Agreed.

13	The Ministry may revoke or suspend the clearance, if implementation of any of the above conditions not satisfactory.	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.	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 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.	Complied. DCBL Public Liability Insurance policy copy attached as per <b>Annexure :41</b>
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,	Noted and agreed.
18	This environmental clearance is valid for seven years from the date of issue.	agreed.

## Consent to Establish (CTE) received from JSPCB Ranchi


**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-11785214/2022/96

Dated: 2022-03-06

**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.- 11785214 / dated : 23/12/2021 of Dalmia Cement (Bharat) Limited, Vonkatesan Thyagarajan for consent under section 25 /26 of the Water (Prevention & Control of Pollution) Act, 1974 and under section 21 of the Air (Prevention & Control of Pollution) Act, 1981
2. **Documents Relied Upon:**
  - (a) The content of Inspection Report (I/R) checklist 28.12.2021 issued vide Ref. No. 1436 dated 28.12.2021 of R.O.Cum-Laboratory, J.S.P.C. Board, Dhanbad.
  - (b) The content of copy of Environmental Clearance granted vide letter No. EC/SEIAA/2018-19/2138/2019/474 dated 23.09.2019 for "Upgradation of technology at existing standalone cement Grinding unit of M/s Dalmia Cement (Bharat) Ltd., at Bokaro Industrial Area, Halidih, Bokaro, Jharkhand from 3.0 MTPA to 3.7 MTPA" with compliance report.
  - (c) The content of Copy of CTE issued vide Ref No.: JSPCB/HO/RNC/CTE-6897145/2020/11 Dated: 07.01.2021 for production of Portland Slag Cement and Composite Cement—3.0 MTPA to 3.7 MTPA.
  - (d) The content of copy of CTO issued vide Ref No. JSPCB/HO/RNC/CTO-7428223/2020/566 dated 04.03.2020 for the period of 31.03.2022 for production of Portland Slag Cement and Composite Cement—3.0 MTPA to 3.7 MTPA and its compliance report.
  - (e) The content of Copy of the No Increase in Pollution Load Certificate issued by the Board vide letter ref. no. B-1998 dated 22.11.2021.
  - (f) The content of Executive Summary related to No Increase in Pollution load with increase in production capacity to 4.5 MTP. Although change in Product Mix and Modernisation in Technology in Existing Standalone Grinding Unit of M/s Dalmia Cement (Bharat) Limited, at Bokaro Industrial Area (BIADA), Bokaro.
  - (g) The content of unit has installed CAAQMS in the single stack and has assured to comply most of the conditions as mentioned in EC.
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 Manza- Kanari, P.S -Bokaro Steel City, District-BOKARO as follows:

Project	Site-Area		Investment (Rs)/Year	Product & Capacity	Period of CTE
	Plot Nos.	Area			

In Expansion	Manza-Kanari, Plot No. IV/A- 7(P), - Industrial area, BLADA, Bokaro	280002 Sq. Mtrs or 20.24 Hactare as per CTO	55.66 Crore	Portland Slag Cement, Portland Composite Cement & Portland Pozzolana Cement (PSC, PCC & PPC) - From 3.7 MTPA to 4.5 MTPA (As per EC Exp.)	date of issue to six months
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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 before commissioning of the project.
2. That, the occupier shall install fixed type water sprinklers to cover all dusty places in the premises to impart water spraying intermittently
3. That, the occupier shall make all roads pucca and shall maintain a good house keeping by regular cleaning and wetting of the roads and dust prone areas.
4. That, the occupier shall store all raw materials and products under shed and shall as far as practicable, do their processing and transfer under foolproof cover(s)
5. That, the occupier shall install online certified PM10 analyzer with onsite display and connectivity to JSPCB server.
6. That, the occupier shall ensure that there shall be no leakage from the doors of the ovens and doors must remain sealed in order to minimize the fugitive emissions,
7. 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.;
8. 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.
9. That, the occupier shall use fly ash and or fly ash bricks in construction of the project.
10. That, the occupier shall implement all pollution control measures as recommended in EIA/EMP.
11. That, the occupier shall comply the recommendations of CREP;
12. That, the occupier shall comply all the conditions of Environmental Clearance issued by MOEF, Govt. of India, New Delhi
13. That, the occupier shall use all solid wastes as resource as a raw material or a product.

In Expansion	Manza -Kanari, Plot No. IV/A- 7(P). - Industrial area, BIADA, Bokaro	280002 Sq. Mtrs or 20.24 Hectare as per C/O	55.66 Crore	Portland Slag Cement, Portland Composite Cement & Portland Pozzolana Cement (PSC, PCC & PPC) - From 3.7 MTPA to 4.5 MTPA (As per EC Exp.)	date of issue to six months
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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 before commissioning of the project.
2. That, the occupier shall install fixed type water sprinklers to cover all dusty places in the premises to impart water spraying intermittently
3. That, the occupier shall make all roads pucca and shall maintain a good house keeping by regular cleaning and wetting of the roads and dust prone areas.
4. That, the occupier shall store all raw materials and products under shed and shall as far as practicable, do their processing and transfer under foolproof cover(s).
5. That, the occupier shall install online certified PM10 analyzer with onsite display and connectivity to JSPCB server.
6. That, the occupier shall ensure that there shall be no leakage from the doors of the ovens and doors must remain sealed in order to minimize the fugitive emissions.
7. 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.;
8. 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.
9. That, the occupier shall use fly ash and or fly ash bricks in construction of the project.
10. That, the occupier shall implement all pollution control measures as recommended in EIA/EMP.
11. That, the occupier shall comply the recommendations of CREP;
12. That, the occupier shall comply all the conditions of Environmental Clearance issued by MOEF, Govt. of India, New Delhi
13. That, the occupier shall use all solid wastes as resource as a raw material or a product.

14. That, as a stake holder in Dhanbad Action Plan the occupier shall ensure the compliance of action to be taken to reduce the pollutants as suggested in Dhanbad Action Plan by them.

**(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 proscribed 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: 2022.03.06  
11:24:28 +05'30'

**(Yatindra Kumar Das)  
Member Secretary**

Memo No. : JSPCB/HO/RNC/CTE-  
11785214/2022/96

Dated : 2022-03-06

**Copy to :** Sri. Venkatesan Thyagarajan, Director of M/s Dalmia Cement (Bharat) Limited, At- Plot No. IV/A-A-7(P), Bokaro Industrial Area Development Authority, 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:  
2022.03.06  
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+05'30'

**(Yatindra Kumar Das)  
Member Secretary**

## Consent to operate (CTO) received from JSPCB Ranchi



## JHARKHAND STATE POLLUTION CONTROL BOARD

TOWNSHIP ADMINISTRATION BUILDING, IEC COMPLEX, DHURWA, RANCHI - 834004

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

Ref.No. JSPCB/HO/RNC/CTO-14970501/2023/503

Dated : 2023-03-15

**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 2022-12-15 of Dalmia Cement (Bharat) Limited, Occupier Name :Venkatesan Thyagarajan, 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 Consent to Establish (CTE), Ref No.-JSPCB/HO/RNC/CTE-11785214/2022/96 Dated: 06.03.2022 for Portland Slag Cement, Portland Composite Cement & Portland Pozzolana Cement (PSC, PCC & PPC) - From 3.7 MTPA to 4.5 MTPA (As per EC Exp.) with compliance report.

(b) The content of copy of Environmental Clearance granted vide letter No. EC/SEIAA/2018-19/2138/2019/174 dated 23.09.2019 for "Upgradation of technology at existing standalone cement Grinding unit of M/s Dalmia Cement (Bharat) Ltd., at Bokaro Industrial Area, Bahadli, Bokaro, Jharkhand from 3.0 MTPA to 3.7 MTPA" with compliance report.

(c) The content of Copy of the No Increase In Pollution Load Certificate issued by the Board vide letter ref. no. B-1998 dated 22.11.2021.

(d) The content of Executive Summary related to No Increase in Pollution load with increase in production capacity to 4.5 MTPA through change in Product Mix and Modernization in Technology in Existing Standalone Grinding Unit of M/s Dalmia Cement (Bharat) Limited, at Bokaro Industrial Area(BIADA), Bokaro.

(e) The content of Self-declaration for procurement of Raw Material from valid source.

(f) The content of Consent to Operate (CTO), vide ref. no. JSPCB/HO/RNC/CTO-13089032/2022/837, dated 12.06.2022 for the production of Portland Slag Cement, Portland Composite Cement & Portland Pozzolana Cement (PSC, PCC & PPC) - From 3.7 MTPA to 4.5 MTPA (As per EC Exp.) for the period upto 31.03.2023.

(g) The content of authorization under HoWM Rules' 2016 vide ref. no. JSPCB/HO/RNC/HWM-9675664/2021/26, dated 09.04.2021.

(h) The content of Inspection Report (I/R), Ref No.-1513 dated 31.12.2022 of R.O., JSPCB, Dhanbad.

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 -Kauri , P S -Bokaro Steel City , District -BOKARO , as follows:

Project	Site-Area	Investment (Rs)	Product & Capacity	Period of CTO

	Plot Nos.	Area			Date of issue To
In Expansion	At- Industrial area, BIADA, Bokara, Plot No. IV/A-7(P)	280002 Sq. Mtrs or 20.24 Hactare	55.66 Crore	Portland Slag Cement, Portland Composite Cement & Portland Pozzolana Cement (PSC, PCC & PPC) - From 3.7 MTPA to 4.5 MTPA (As per EC Exp. and previous CTO)	31/03/2027

**(A) Specific Conditions:**

1. That, the occupier shall install, operate and maintain dust containment cum suppression system.
2. That, the occupier shall carry out grinding and packing under covered area.
3. That, the occupier shall maintain the new emission guideline as prescribed by CPCB/MoEF for cement industry.
4. That, the occupier shall cover the truck/dumpers used for transportation of Limestone, Gypsum, Coal, Cement and other materials and shall use least habitation route for their movement.
5. That, the occupier shall install & maintain fixed type water sprinkler all along the road and the points of loading & unloading points.
6. That, the occupier shall construct pucca approach road and internal roads and shall do sprinkling of water along these area.
7. That, the occupier shall harvest rain water of the premises and recharge it to the ground by the method of Central Ground Water Board that fits most to such project.
8. That, the occupier shall keep surface run off within the premises and should construct garband drain and settling pit for this purpose.
9. That, the occupier shall transport the product by leak proof and covered vehicles with tarpaulin sheet.
10. That, the occupier shall establish and operate well equipped environmental laboratory with facilities to monitor at least all regulatory parameters and duly accredited by NABL.
11. That, the occupier shall operate and maintain air pollution control devices to such as bag filters to control fuel dust emission.

12. That, the occupier shall submit the disposal and utilization of fly ash generated in the plant;
13. That, the occupier shall comply conditions of the CREP and shall report to the Board regularly.
14. That, occupier shall maintain the operation of Pollution control system installed at-Ball Mills and Silos. Also the power supply to production units & Silos shall be interlinked with pollution control arrangement;
15. That, the occupier shall operate and maintain the pollution control equipments such as bag filters and others.
16. That, the occupier shall operate and maintain the CAAQMS and PM 10 analyzer and ensure transmission of data to JSPCB and CPCB server uninterruptedly.
17. That, the occupier shall comply all the conditions of EC and CTO and submit six monthly compliance report to Board and other relevant documents alongwith the analysis reports successively.
18. that, the occupier shall dispose the solid waste as per prescribed norms.
19. That, the occupier shall dispose the hazardous waste as per HoWM Rules' 2016 and shall obtain authorization under HoWM Rules' 2016.
20. That, the occupier shall submit online applications for renewal of consent under section 25 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 documents showing compliance of all of the above conditions.
21. That, this CTO supersedes the CTO granted earlier vide ref. no. JSPCB/HO/RNC/CTO-13089032/2022/837, dated 12.06.2022.

**(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 <sub>2</sub> ), µg/m <sup>3</sup>	Annual 24 hours	50 80	20 80
2.	Nitrogen Dioxide (NO <sub>2</sub> ), µg/m <sup>3</sup>	Annual 24 hours	40 80	30 80
3.	Particulate Matter (size less than 10 µm) or PM <sub>10</sub> , µg/m <sup>3</sup>	Annual 24 hours	60 100	60 100
4.	Particulate Matter (size less than 2.5 µm) or PM <sub>2.5</sub> , µg/m <sup>3</sup>	Annual 24 hours	40 60	40 60
5.	Ozone(O <sub>3</sub> ), µg/m <sup>3</sup>	8 hours 1 hour	100 180	100 180
6.	Lead (Pb) µg/m <sup>3</sup>	Annual 24 hours	0.50 1.0	0.50 1.0
7.	Carbon Monoxide (CO) mg/m <sup>3</sup>	8 hours 1 hour	02 04	02 04
8.	Ammonia (NH <sub>3</sub> ) µg/m <sup>3</sup>	Annual 24 hours	100 400	100 400
9.	Benzene (C <sub>6</sub> H <sub>6</sub> ) µg/m <sup>3</sup>	Annual	05	05
10.	Benzo(a) Pyrene(HaP) Particulate Phase only ng/m <sup>3</sup>	Annual	01	01
11.	Arsenic (As) ng/m <sup>3</sup>	Annual	06	06
12.	Nickel (Ni) ng/m <sup>3</sup>	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 <sup>3</sup>

- (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) daily 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 CTD 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: 2023.03.15  
21:26:09 +05'30'  
(Yatindra Kumar Das)  
Member Secretary

Memo No. : JSPCB/HO/RNC/CTO-  
149/0501/2023/503

Dated : 2023-03-15

**Copy to:** M/s Dalmia Cement (Bharat) Limited, A/- Plot No. IV/A-A-7(P), Bokaro Industrial Area Development Authority, 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 (Yatindra Kumar Das)  
by Yatindra  
Kumar Das  
Date: 2023.03.15  
21:27:17 +05'30'  
Member Secretary

## Water agreement copy from JIADA, Jharkhand



झारखण्ड JHARKHAND

A 459112

**AGREEMENT BOND FOR INDUSTRIAL  
METERED WATER SUPPLY SERVICE CONNECTION**

An Agreement made this 17th day of March 2011 between the Bokaro Industrial Area Development Authority (Hereinafter called the owner) on the first part and M/s Bokaro Jaypee Cement Limited, "JA House", 63 Basant Lok, Vasant Vihar, New Delhi-110057 hereinafter called "THE CONSUMER" on the second part.

The particulars of the industrial plot to which supply is to be given in the factory premises.

Description of premises	(a) Industrial Plot No.: IV/A - 7(P)
	(b) Chauthdi of the industrial plot: As per Annexure 01
	(c) Industrial Plot No.: IV/A - 7(P)
	(d) Revenue plot & No.: As per Annexure 02.

Whereas the consumer desired to obtain supply of water for industrial purposes for his Premises as described from the distribution mains of the Authority and has made a written application to the Authority for this purpose and the Authority has decided to grant it, it is hereby covenanted and agreed as under:-

M/S BOKARO JAYPEE CEMENT LTD.

(Authorized Signatory)

17/3/11  
Accounts Officer  
BIADA

1) The Authority shall provide a connection and turn on the water to this premise, on the completion of the communication pipes laid by the 2<sup>nd</sup> part by the Authority at the cost of the consumer or on receipt of D.O. certificate of satisfactory completion of the communication pipes by the consumer. The sanctioned plan with details noted over it regarding no. of tap and size of water meter, Ferrule or storage tank etc. by the Authority.

2) The consumer shall pay water rate/water tax to the Authority as per rates fixed by the Authority from time to time. The rates effective from 01.11.95 are as under:-

i) Rs. 14/- Per 1000 liters of water supplied.

3) a) The meter of required size shall be purchased by the consumer at his own cost which shall be approved by the Authority before its installation. Whenever meter will be found stolen or defective it will be replaced at the cost of the consumer. Every new metre shall be approved by the Authority. In case the meter is not installed, billing will be on the basis of Water requirement plus 10%.

b) The register of meter reading shall be prima-facie evidence of the quantity of water consumed and bills for water rates shall be based on the meter reading taken monthly, a copy of which will be supplied to the consumer on demand.

c) Provided that if any meter is out of order and if in the opinion of the D.O it is not registering correctly the Authority may estimate the quantity to be billed for, for the period of defective meter as certified by the DO/DDO/ADO in the manner terms and conditions laid down on the allotment of land/lease deed. The defective water meter will have to be replaced at the cost of consumer supplied by the consumer. The water meter of required size and make to be approved by the Authority shall be purchased by the consumer.

4. Bills of water rates shall be presented by the Authority monthly and shall be paid by consumer within seven days of presentation. For this purposes the date of presentation shall mean the date of issue of the bill on the address of the unit.

5. Security Deposit= Water requirement per day X 90 i.e.  $5,50,000 \text{ liter} \times 90 \times 14$   
1000  
= Rs. 6,93,000.00 (Rupees Six Lakh Ninety Three Thousand) only will be deposited by the party in Authority fund.

6. The cost of stamping this agreement shall be borne by the unit concerned.

7. This agreement may be terminated with the cancellation of the plot allotted.

for BOKARO JAYPEE CEMENT LTD.

(Authorised Signatory)

DATE

21/11/11

21/11/11

8. The Authority will have right to shut off the supply temporarily for purposes of necessary repairs/maintenance of water supply pipelines etc. giving a prior notice to the concerned unit.
9. That the meter chamber shall be the property of the Authority even, if it is constructed by the consumer at his own cost but it will be got repaired by consumer or if Authority get it repaired, the cost will be received from consumer. The safety of water meter will lie with consumer.
10. That the consumer shall take proper care for the safety of the meter which will be installed in the meter chamber situated within the premises of the unit and that in case of its theft he will be responsible and be liable for replacement of the meter within a week time.
11. In case of any dispute regarding this water connection, the decision of Bokaro Industrial Area Dev. Authority will be final and binding upon the party.
12. If the consumer fails to pay the water charges due under this agreement within seven days of the date on which the payment falls due, the consumer shall be liable to pay interest @ 10% simple per annum on earlier bill amount.
13. Every sum that may become due from the consumer to the Authority under or in pursuance of the provisions of this agreement shall be payable to the Authority and shall be recoverable as public demand under the Bihar & Orissa public Recovery Act, 1914.
14. In case the consumer desires to increase/decrease connected demand the Authority may require to be given 3 months notice in writing standing the required demand.
15. If the consumer uses the water supplied or deals with it in any manner so as unduly or improperly to interfere with the efficient supply of water to any person by the Authority or sells or diverts water to premises other than his/her own, the Authority may discontinue the supply with prior notice.
16. The consumer shall not cause or permit any such repairs additions or alternations to be done otherwise than by the Authority shall when any such repairs are required to be done, inform such officers of the Authority for this purpose.
17. All payment referred to above shall unless otherwise direct by the Authority to be made by the consumer by cash/draft in the office of M.D. BIADA.

or BOKARO JAYPRakash CEMENT LTD.

(Authorized Signatory)

Chief Executive Officer  
BIADA

The Authority shall be at liberty at any time to alter charges, minimum guarantee, any terms and conditions in the agreement bond etc. as set out in such hereafter and the same shall be binding on the consumer.

- 18. Point of supply. : From Water Tank No: 02 to Plot No:IVA-7(P)
- 19. Connected fitting (a) Water meter with enclosure  
(b) 200 N.B. Pipe with valve
- 20. Qty of water required per month in 1.65 Crores Liters.
- 21. Minimum guarantee by the consumer (25% of above connected load)
  - (i) Tariff Rs.14/- only per 1,000 liters up to 1.65 Crores liters per Month. (125% of monthly demand)
  - (ii) Charge for additional quantity.....NIL.....per 0.00 gall./lit.(provisional and subject to revision)
- 22. Building plans in triplicate showing pipeline and all fixtures including index plan showing size of ferrule, meter pipeline and stop cock etc. duly signed by the licensed plumber. Asstt. Engineer.

In witness where of the said parties hereunder set & subscribed their respective hands and seals the day and year first above written.

Signed by the consumer

of BUNARO JAYPR CEMENT LTD.

In presence of

- 1) AHADHESH KUMAR PANDAY
- 2) RAJEEV KUMAR SINHA

(Authorized Signatory)

Signed for and on behalf of the BIADA:

In presence of

- 1) [Signature]
- 2) [Signature]

[Signature]  
Designation  
Asstt. Engineer  
BIADA

## Hazardous waste Authorization copy from JSPCB Ranchi



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

**FORM 2**  
 [See rule 6(2)]

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

- No. of authorization and date of issue: JSPCB/HO/RNC/HWM-9675661/2021/26 09/04/2021
- Reference of application(No. and date): 9675664 30/12/2020
- Dalmia Cement (Bihar) Limited of Venkatesan Thyagarajan 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 Distt. Bokaro

**Details of Authorisation**

Sl.No.	Category of Hazardous Waste as per the Schedules I, II and III of these rules	Authorised mode of disposal or recycling or utilisation or co-processing, etc.	Quantity(ton/annum)
1	5.1 Used Oil/Spent oil	Sold to authorised recycler	1.5 KI./Annum
2	5.2 Used Oil Cotton	Sold to authorised recycler	1.0 KL

(1) The authorisation shall be valid for a period of date of issue to 31.12.2026 years

(2) The authorisation is subject to the following general and specific conditions (Please specify any conditions that need to be imposed over and above general conditions, if any):

**A General conditions of authorisation:**

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

5. The person authorised shall implement Emergency Response Procedure (ERP) for which this authorisation is being granted considering all site specific possible scenarios such as spillages, leakages, fire etc. and their possible impacts and also carry out mock drill in this regard at regular interval of time.
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 comply the provisions of the Environment Protection Act and Rules.
- (2) That, the authorization shall be produced at the time of inspection.
- (3) That, the occupier authorized shall not rent/sell or otherwise transport the H/W without obtaining prior permission of the Board.
- (4) That, any un-authorization change shall constitute a breach the authorization.
- (5) That, it is the duty of authorized person to take prior permission of the Board to close down the facility.
- (6) That, the renewal of authorization shall be made as laid down in the rules.
- (7) That, any other condition for compliance as per the guidelines issued by the MoEF for CPCB.
- (8) That, the occupier shall submit annual return for the financial year before 30th June, every year.
- (9) That, the occupier shall comply all the conditions.
- (10) That, the occupier shall submit quarterly and annual information on hazardous wastes consumed its source, products generated or resources conserved (specifying the details like type and quantity of resources conserved) to the concerned SPCB.
- (11) That, the occupier shall complied all directions given by standard operating and procedure.

Memo No: JSPCB/HO/RNC/HWM-  
9675664/2021/26  
Date: 09/04/2021

**DILIP  
KUMAR**  
Digitally signed  
by DILIP KUMAR  
Date:  
2021.04.09  
12:14:28 +05'30'  
Dilip Kumar  
Environmental Engineer

**Copy To:**

**Sri Sunil Kumar Gupta, Executive Director (Manufacturing Head East) of M/s Dalmia Cement (Bharat) Limited, At- Plot No. IV/A-A-7(P), Bokaro Industrial Area Development Authority, Bokaro Steel City, Dist- Bokaro / Director of Industry, Government of Jharkhand, Ranchi/ Deputy Commissioner, Bokaro/ Chief Inspector of Factories, Ranchi/ R.O., Dhanbad for information & ensuring compliance of the above.**

**DILIP** Digitally signed  
by **DILIP KUMAR**  
**KUMAR** Date: 2021.04.09  
12:09:59 +05'30

**Dilip Kumar**  
Environmental Engineer

**DALMIA CEMENT BHARAT LIMITED, BOKARO**

<b>Manual Stack emission monitoring report from October 2025 to March 2026</b>			
<b>Month</b>	<b>Min.</b>	<b>Max.</b>	<b>Avg.</b>
October-2025	6.9	22.6	18.9
November-2025	5.0	19.2	16.2
December-2025	8.4	18.9	15.3
January-2026	6.3	16.7	13.7
February-2026	6.1	19.2	12.6
March-2026	7.2	20.8	17.5
<b>Min.</b>	<b>5.0</b>	<b>16.7</b>	<b>12.6</b>
<b>Max.</b>	<b>8.4</b>	<b>22.6</b>	<b>18.9</b>
<b>Avg.</b>	<b>6.7</b>	<b>19.6</b>	<b>15.7</b>

<b>On Line CEMS monitoring report from October 2025 to March 2026</b>			
<b>Month</b>	<b>Min.</b>	<b>Max.</b>	<b>Avg.</b>
October-2025	3.0	26.0	17.1
November-2025	4.4	23.4	19.8
December-2025	2.3	28.1	21.8
January-2026	2.5	16.9	12.2
February-2026	6.1	21.6	17.7
March-2026	6.8	25.0	17.2
<b>Min.</b>	<b>2.3</b>	<b>16.9</b>	<b>12.2</b>
<b>Max.</b>	<b>6.8</b>	<b>28.1</b>	<b>21.8</b>
<b>Avg.</b>	<b>4.2</b>	<b>23.5</b>	<b>17.6</b>

<b>JSPCB Norms</b>	<b>30 mg/Nm<sup>3</sup></b>
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Stack emission monitoring report month of October 2025 from NABL/JSPCB approved lab



**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 Bhowan, Harma Housing Colony,  
 Ranchi-834002, Jharkhand, India  
 Ph - 8407804253, 8407804251, Email - iam2012@rediffmail.com



**TEST REPORT**

LLR No.:	T C 1 6 1 3 3 2 3 0 0 0 1 6 4 *										
Discipline: Chemical	Group: Atmospheric Pollution					Sub-Group: Stack Emission					
Report Issue Date: 11-10-2025	Test Report No.: RN-24110504SI										
Sample ID: 251008AP12001	Sample Description: Stack Emission										
Challan No./P.O. No.: 4548052325/237	Challan No./ P.No. Date: NA										
Name and Contact Details of Customer: Sanjeev Verma, (926447745) Email id - verma.sanjeev2@dalmiacement.com Dalmia Cement Bharat Limited, Plot No IV/A-7(P), Bokaro Industrial Area Balidih 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 (LATS/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 -I & 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): 367	Flue Gas Velocity (m/s): 13.5	Flue Gas Volumetric Flow Rate (Nm <sup>3</sup> /hr): 411319.1
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**--Test Result--**

Sl. NO.	Parameters	Test Methods	Unit	Result	Limits
1.	Particulates Matter (PM)	IS 11255 (Part-1)	mg/Nm <sup>3</sup>	11.5	30.0
Dust			Kg/hr	4.7	

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 IS Method 11255 Series.
Remark	Sample Comply with prescribed specification.
Opinion & Interpretation	Not Practiced.
Tested by	Akanksha Soudrabh
Sample Drawn by	Aniket Munda & Team
Disclaimers	<ul style="list-style-type: none"> <li>The results relate only to the item tested, calibrated or sampled.</li> <li>Additions to, deviations, or exclusions from the method is not practiced if not mentioned.</li> <li>Results from external providers are not used if not specified.</li> </ul>

**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 complaint about this report should be communicated in writing within 7 days of its issue.
- Testability of Institute for Environmental Management will be limited to in-situ amount only.
- In case of feedback/complaints, please send an email at [iam@rediffmail.com](mailto:iam@rediffmail.com)

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

Reviewed by	Authorized Signatory
(Taqeer Ahmad)	(S. C. Jain)
Technical Manager	Director

---End of Report---

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



## 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 831002, Jharkhand, India  
 Ph - 8407804253, 8407804251, Email - iem2012@rediffmail.com



### TEST REPORT

ILR No.:	I E M 2 0 1 2 3 3 2 0 0 0 0 0 0 0 5 0 0												
Discipline:	Chemical	Group:	Atmospheric Pollution	Sub-Group:	Stack Emission								
Report Issue Date:	14-03-2026			Test Report No.:	IN-24110500451								
Sample ID:	26931AP03001			Sample Description:	Stack Emission								
Challan No./P.O. No.:	4548052325/237			Challan No./P.No. Date:	16-12-2025								
Name and Contact Details of Customer: : Dalma Cement Bharat Limited, Plot No IV/A-7(P), Bokaro Industrial Area Balidin Bokaro Steel City, Bokaro-827014 Jharkhand India Email id:- verma.sanjeev2@dalmacement.com Sanjeev Verma, (9264447745)													
Type of Industry:	Cement			Condition of Sample:	Fit for Test								
Sampling Protocol:	IS: 11255: 2009			Sampling Date:	10-03-2026								
Protocol: CPCB Guideline (LATS/10/2013-14) & IS Method 11255 Series													
Sampling Location: Cement Mill Bag House Stack													
Field Meteorological Information   A. Temp. (°C): 29   R.H. (%): 51   W.C.: Sunny   W.D.: SE to NW													
Location of performance of the Laboratory Activity: IEM Laboratory, Ranchi													
Sample Receiving Date:		Testing Started:		Testing Ended:									
11-03-2026		11-03-2026		14-03-2026									

#### Information obtained from Customer

Stack Identification	Cement Mill Bag House Stack	Sampling Port	Available
Plant Form	Permanent	Stack Height from Ground Level (m)	30
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):	370	Flue Gas Velocity (m/s):	13.2	Flue Gas Volumetric Flow Rate (Nm <sup>3</sup> /hr):	399699.7
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#### -Test Result-

Sl. NO.	Parameters	Test Methods	Unit	Result	Limits
1.	Particulates Matter (PM)	IS 11255 (Part-1)	mg/Nm <sup>3</sup>	12.6	30.0
Dust			Kg/hr	3.0	

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 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"> <li>The results relate only to the item tested, calibrated or sampled.</li> <li>Additions to, deviations, or exclusions from the method is not practiced if not mentioned.</li> <li>Results from external providers are not used if not specified.</li> </ul>

#### 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 MD.
- This report is intended for only purchaser and not for legal purposes for advertisement.
- Any complaint 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 invoiced amount only.
- In case of feedback/complaints, please send an email at [info@iem2012.com](mailto: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
(Ananksha Sood)	(Dr. S. C. Jain)
Dy. Technical Manager	Director

---End of Report---



**DALMIA CEMENT BHARAT LIMITED, BOKARO**

Fugitive dust emission monitoring report from October 2025 to March 2026

Sr. No	Date of monitoring	Near Mill area $\mu\text{g}/\text{m}^3$	Near Packing plant $\mu\text{g}/\text{m}^3$	Near Raw material yard $\mu\text{g}/\text{m}^3$	Truck parking area $\mu\text{g}/\text{m}^3$
1	07.10.2025	926.1	927.2	957.6	845.8
2	05.11.2025	849.7	786.2	725.6	905.4
3	22.12.2025	912.5	842.2	791.2	726.2
4	27.01.2026	916.3	867.4	793.0	822.6
5	26.02.2026	1146.3	982.4	943.1	959.6
6	10.03.2026	1098.3	973.5	913.7	1048.6
	<b>Min.</b>	<b>849.7</b>	<b>786.2</b>	<b>725.6</b>	<b>726.2</b>
	<b>Max.</b>	<b>1146.3</b>	<b>982.4</b>	<b>957.6</b>	<b>1048.6</b>
	<b>Avg.</b>	<b>980.65</b>	<b>893.4</b>	<b>850.9</b>	<b>885.4</b>

<b>JSPCB Norms</b>	<b>2000 <math>\mu\text{g}/\text{m}^3</math></b>
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Fugitive dust emission monitoring report month of March 2026 from NABL/JSPCB approved lab

**INSTITUTE FOR ENVIRONMENTAL MANAGEMENT**  
 Corporate Office: A-2, 3rd Floor, Sector-10, Gurgaon, Haryana, India. Phone: 01295-555555  
 Laboratory Office: Plot No. 11, Sector-10, Gurgaon, Haryana, India. Phone: 01295-555555  
 Website: www.imeindia.com

**TEST REPORT**

Client Name: **Shree Shreeya Pvt. Ltd.** | Sample No: **SH/2026/001**  
 Test Report No: **IME/2026/001** | Client Address: **Plot No. 11, Sector-10, Gurgaon, Haryana, India.**

Project Name: **Shree Shreeya Pvt. Ltd. Project**  
 Location: **Plot No. 11, Sector-10, Gurgaon, Haryana, India.**

Test Method: **IS 1586:2016** | Test Date: **15/03/2026**

S.No.	Parameter	Test Method No.	Unit	Result	Limit
1	Resuspended Particles (RPM)	IS 1586:2016	µg/m <sup>3</sup>	100	150

**Remarks:**  
 1. The test was conducted in accordance with the test method specified.  
 2. The test results are within the permissible limits.  
 3. The test was conducted under the following conditions:  
 - Wind Speed: 1.5 m/s  
 - Humidity: 65%  
 - Temperature: 25°C

Page 1 of 1

**INSTITUTE FOR ENVIRONMENTAL MANAGEMENT**  
 Corporate Office: A-2, 3rd Floor, Sector-10, Gurgaon, Haryana, India. Phone: 01295-555555  
 Laboratory Office: Plot No. 11, Sector-10, Gurgaon, Haryana, India. Phone: 01295-555555  
 Website: www.imeindia.com

**TEST REPORT**

Client Name: **Shree Shreeya Pvt. Ltd.** | Sample No: **SH/2026/002**  
 Test Report No: **IME/2026/002** | Client Address: **Plot No. 11, Sector-10, Gurgaon, Haryana, India.**

Project Name: **Shree Shreeya Pvt. Ltd. Project**  
 Location: **Plot No. 11, Sector-10, Gurgaon, Haryana, India.**

Test Method: **IS 1586:2016** | Test Date: **16/03/2026**

S.No.	Parameter	Test Method No.	Unit	Result	Limit
1	Resuspended Particles (RPM)	IS 1586:2016	µg/m <sup>3</sup>	120	150

**Remarks:**  
 1. The test was conducted in accordance with the test method specified.  
 2. The test results are within the permissible limits.  
 3. The test was conducted under the following conditions:  
 - Wind Speed: 1.8 m/s  
 - Humidity: 68%  
 - Temperature: 26°C

Page 1 of 1

**INSTITUTE FOR ENVIRONMENTAL MANAGEMENT**  
 Corporate Office: A-2, 3rd Floor, Sector-10, Gurgaon, Haryana, India. Phone: 01295-555555  
 Laboratory Office: Plot No. 11, Sector-10, Gurgaon, Haryana, India. Phone: 01295-555555  
 Website: www.imeindia.com

**TEST REPORT**

Client Name: **Shree Shreeya Pvt. Ltd.** | Sample No: **SH/2026/003**  
 Test Report No: **IME/2026/003** | Client Address: **Plot No. 11, Sector-10, Gurgaon, Haryana, India.**

Project Name: **Shree Shreeya Pvt. Ltd. Project**  
 Location: **Plot No. 11, Sector-10, Gurgaon, Haryana, India.**

Test Method: **IS 1586:2016** | Test Date: **17/03/2026**

S.No.	Parameter	Test Method No.	Unit	Result	Limit
1	Resuspended Particles (RPM)	IS 1586:2016	µg/m <sup>3</sup>	110	150

**Remarks:**  
 1. The test was conducted in accordance with the test method specified.  
 2. The test results are within the permissible limits.  
 3. The test was conducted under the following conditions:  
 - Wind Speed: 1.6 m/s  
 - Humidity: 66%  
 - Temperature: 25°C

Page 1 of 1

**INSTITUTE FOR ENVIRONMENTAL MANAGEMENT**  
 Corporate Office: A-2, 3rd Floor, Sector-10, Gurgaon, Haryana, India. Phone: 01295-555555  
 Laboratory Office: Plot No. 11, Sector-10, Gurgaon, Haryana, India. Phone: 01295-555555  
 Website: www.imeindia.com

**TEST REPORT**

Client Name: **Shree Shreeya Pvt. Ltd.** | Sample No: **SH/2026/004**  
 Test Report No: **IME/2026/004** | Client Address: **Plot No. 11, Sector-10, Gurgaon, Haryana, India.**

Project Name: **Shree Shreeya Pvt. Ltd. Project**  
 Location: **Plot No. 11, Sector-10, Gurgaon, Haryana, India.**

Test Method: **IS 1586:2016** | Test Date: **18/03/2026**

S.No.	Parameter	Test Method No.	Unit	Result	Limit
1	Resuspended Particles (RPM)	IS 1586:2016	µg/m <sup>3</sup>	130	150

**Remarks:**  
 1. The test was conducted in accordance with the test method specified.  
 2. The test results are within the permissible limits.  
 3. The test was conducted under the following conditions:  
 - Wind Speed: 1.9 m/s  
 - Humidity: 70%  
 - Temperature: 27°C

Page 1 of 1

**DALMIA CEMENT BHARAT LIMITED, BOKARO**

**CAAQMS-1(Continuous Ambient air quality monitoring report from October 2025 to March 2026**

**CAAQMS-1 Monthly average monitoring report**

Month	PM-10	PM-2.5	SO2	NOx
	$\mu\text{g}/\text{m}^3$	$\mu\text{g}/\text{m}^3$	$\mu\text{g}/\text{m}^3$	$\mu\text{g}/\text{m}^3$
Oct-2025	38.5	18.7	6.9	16.4
Nov-2025	37.7	21.7	6.1	12.6
Dec-2025	52.2	18.3	5.2	13.1
Jan-2026	57.5	16.1	6.2	22.3
Feb-2026	53.7	34.0	6.4	18.3
Mar-2026	50.4	19.3	5.7	19.1
<b>Min</b>	<b>37.7</b>	<b>16.1</b>	<b>5.2</b>	<b>12.6</b>
<b>Max</b>	<b>57.5</b>	<b>34.0</b>	<b>6.9</b>	<b>22.3</b>
<b>Avg</b>	<b>48.4</b>	<b>21.3</b>	<b>6.1</b>	<b>17.0</b>

## DALMIA CEMENT BHARAT LIMITED, BOKARO

CAAQMS-2(Continuous Ambient air quality monitoring report from October 2025 to March 2026

### CAAQMS-2 Monthly average monitoring report

Month	PM-10	PM-2.5
	$\mu\text{g}/\text{m}^3$	$\mu\text{g}/\text{m}^3$
Oct-2025	38.8	11.9
Nov-2025	44.7	21.2
Dec-2025	50.0	22.3
Jan-2026	61.1	22.2
Feb-2026	55.7	23.3
Mar-2026	40.4	15.3
<b>Min</b>	<b>38.8</b>	<b>11.9</b>
<b>Max</b>	<b>61.2</b>	<b>23.4</b>
<b>Avg</b>	<b>48.9</b>	<b>19.0</b>

# CAAQMS Calibration certificates of Month of November-2025



## Calibration certificate of CAAQMS1 & CAAQMS2 at Dalmia cement Bharat LTD (Bokaro, Jh.)

Name of Client : Dalmia cement Bharat LTD  
 WO No : 4548049733 Date-20.08.2025  
 Calibration Date : 07.11.2025

ANALYZER SPARGAS DETAILS			
ANALYZERS	MODEL & S.L. NO.	CAL. CLY.	SPARGAS CONC
PM10(CAAQMS1)	MP101M	Ref.Gauge	829 $\mu\text{g}/\text{cm}^3$
PM2.5(CAAQMS1)	MP101M	Ref.Gauge	870 $\mu\text{g}/\text{cm}^3$
NO(CAAQMS1)	AC32M	NO	15PPM
SO2(CAAQMS1)	AF22M	SO2	1.0 PPM
PM10(CAAQMS2)	MP101M	Ref.Gauge	859 $\mu\text{g}/\text{cm}^3$
PM2.5(CAAQMS2)	MP101M	Ref.Gauge	840 $\mu\text{g}/\text{cm}^3$

ANALYZER CALIBRATION DETAILS									
Date	Parameter	Units	SRef.	ZMes.	SMes.	Zero	Factor	SDiff%	Status
07.11.2025	PM10(CAAQMS1)	$\mu\text{g}/\text{cm}^3$	829	NA	832	0	0.74	0.37	Valid
07.11.2025	PM2.5(CAAQMS1)	$\mu\text{g}/\text{cm}^3$	870	NA	858	0	0.71	-1.38	Valid
07.11.2025	NO(CAAQMS1)	$\mu\text{g}/\text{cm}^3$	60	0.011	59.32	0	1.41	-1.13	Valid
07.11.2025	SO2(CAAQMS1)	$\mu\text{g}/\text{cm}^3$	300	0.74	302.4	0	2.07	0.8	Valid
07.11.2025	PM10(CAAQMS2)	$\mu\text{g}/\text{cm}^3$	859	NA	839	0	0.79	-2.32	Valid
07.11.2025	PM2.5(CAAQMS2)	$\mu\text{g}/\text{cm}^3$	840	NA	855	0	0.81	1.78	Valid

Room temperature while doing calibration was 24°C.

Calibration date: 07<sup>th</sup> Nov, 2025.  
 Next Due date: 07<sup>th</sup> Feb, 2026.

Calibrated by: Sonu Kumar Jha



Sr. Executive CSD

For Analytical Services, please visit our website: [www.envea.com](http://www.envea.com)



ENVEA, ISO 9001:2015 and ISO 17025:2017 Certified  
 40/28, Phase-1, Sector-10, Gurgaon, Haryana-122001, India. Contact: 9999999999

*(Handwritten signature)*

ENVEA/2025/000001/000001/000001/000001/000001

# CAAQMS Calibration certificates Month of January 2026



## Calibration certificate of CAAQMS 1 & CAAQMS 2 at Dalmia Cement Bharat LTD (Bokaro, JH.)

Name of Client : Dalmia Cement Bharat Ltd.

W.O. No. : 1.4548049733 Date : 20.08.2025

ANALYZER & SPAN GAS DETAILS			
ANALYZERS	MODEL & S/N NO.	CAL. CLY.	SPAN GAS CONC.
PM10 (CAAQMS 1)	MP101M & 3688	Ref. Gauge	829 $\mu\text{g}/\text{cm}^3$
PM2.5 (CAAQMS 1)	MP101M & 3685	Ref. Gauge	870 $\mu\text{g}/\text{cm}^3$
NO (CAAQMS 1)	AC32M & 04-2289	NO	15ppm
SO2 (CAAQMS 1)	AF22M & 2139	SO2	10ppm
PM 10 (CAAQMS 2)	MP101M & 3683	Ref. Gauge	835 $\mu\text{g}/\text{cm}^3$
PM2.5 (CAAQMS 2)	MP101M & 3691	Ref. Gauge	823 $\mu\text{g}/\text{cm}^3$

ANALYZER CALIBRATION DETAILS (CAAQMS)									
Calibration Date	Parameter	Units	SRef.	ZMes.	SMes.	Zero	Factor	SDiff%	Status
14.01.2026	PM10 (CAAQMS 1)	$\mu\text{g}/\text{cm}^3$	844	N/A	851	0	0.85	0.89	Valid
14.01.2026	PM2.5 (CAAQMS 1)	$\mu\text{g}/\text{cm}^3$	845	N/A	853	0	0.64	0.95	Valid
14.01.2026	NO (CAAQMS 1)	$\mu\text{g}/\text{cm}^3$	60	0.013	58.94	0	1.43	1.06	Valid
14.01.2026	SO2 (CAAQMS 1)	$\mu\text{g}/\text{cm}^3$	300	0.73	302.6	0	1.99	0.87	Valid
15.01.2026	PM 10 (CAAQMS 2)	$\mu\text{g}/\text{cm}^3$	829	N/A	841	0	0.80	1.45	Valid
15.01.2026	PM2.5 (CAAQMS 2)	$\mu\text{g}/\text{cm}^3$	852	N/A	854	0	0.79	1.40	Valid

Room temperature while doing calibration was 24°C.

- CALIBRATION DATE: 14<sup>th</sup> January, 2026.
- NEXT DUE DATE: 14<sup>th</sup> April, 2026.

Calibrated by: - Animesh Banerjee  
SR. Engineer-CSD  
Envea India Pvt. Ltd.

ENVEA India Private Limited (Formerly known as Environmental SA India Pvt Ltd)  
D-16, 3 & 4, TTC Industrial Area, M.E.D.C. Tundla, Uttar Pradesh - 202076, India  
Tel: +91 22 45020000 - Fax: +91 22 45020001 - www.envea.com - info@envea.com

CIN: U40102WB2005PTC100204 - GST NO: 27AAACE1000020



## DALMIA CEMENT BHARAT LIMITED, BOKARO

Manual Ambient air quality monitoring report from October 2025 to March 2026

Near Time Office				
Month	SO <sub>2</sub>	NO <sub>x</sub>	PM-10	PM-2.5
	µg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>
Oct-2025	66.2	32.69	58.2	30.8
Nov-2025	21.7	35.0	60.4	32.0
Dec-2025	20.4	33.0	52.8	28.3
Jan-2026	16.1	24.9	64.2	29.8
Feb-2026	21.5	31.4	61.0	31.9
Mar-2026	13.0	24.0	57.2	32.7
<b>Min</b>	<b>13.0</b>	<b>24.0</b>	<b>52.8</b>	<b>28.3</b>
<b>Max</b>	<b>66.2</b>	<b>35.0</b>	<b>64.2</b>	<b>32.7</b>
<b>Avg</b>	<b>29.7</b>	<b>30.0</b>	<b>58.9</b>	<b>30.8</b>

Near FH-2 Building				
Month	SO <sub>2</sub>	NO <sub>x</sub>	PM-10	PM-2.5
	µg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>
Oct-2025	23.2	20.2	52.8	23.9
Nov-2025	14.5	23.4	52.9	24.75
Dec-2025	13.3	20.7	51.7	25.5
Jan-2026	14.5	22.4	52.8	25.5
Feb-2026	14.7	26.0	54.8	25.9
Mar-2026	12.8	23.3	56.1	26.2
<b>Min</b>	<b>12.8</b>	<b>20.2</b>	<b>51.7</b>	<b>23.9</b>
<b>Max</b>	<b>23.3</b>	<b>26.0</b>	<b>56.1</b>	<b>26.2</b>
<b>Avg</b>	<b>16.1</b>	<b>22.8</b>	<b>53.6</b>	<b>25.2</b>

### JSPCB Norms

SO <sub>2</sub>	NO <sub>x</sub>	PM <sub>10</sub>	PM <sub>2.5</sub>
(µg/m <sup>3</sup> )	(µg/m <sup>3</sup> )	(µg/m <sup>3</sup> )	(µg/m <sup>3</sup> )
80	80	100	60

# DALMIA CEMENT BHARAT LIMITED, BOKARO

Manual Ambient air quality monitoring report from October 2025 to March 2026

Near Wagon Tripler				
Month	SO <sub>2</sub>	NO <sub>x</sub>	PM-10	PM-2.5
	µg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>
Oct-25	16.3	26.5	51.8	29.7
Nov-25	18.5	29.8	52.0	31.4
Dec-25	17.3	26.2	56.3	30.5
Jan-26	16.0	24.8	64.4	28.0
Feb-26	18.0	27.7	61.8	31.5
Mar-26	14.5	23.8	61.1	28.5
<b>Min</b>	<b>14.5</b>	<b>23.8</b>	<b>51.8</b>	<b>28.0</b>
<b>Max</b>	<b>18.5</b>	<b>29.8</b>	<b>64.4</b>	<b>31.5</b>
<b>Avg</b>	<b>16.7</b>	<b>26.6</b>	<b>57.9</b>	<b>29.9</b>

Near Fabrication Yard				
Month	SO <sub>2</sub>	NO <sub>x</sub>	PM-10	PM-2.5
	µg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>
Oct-25	14.0	22.8	46.7	25.3
Nov-25	16.2	26.2	53.6	28.6
Dec-25	14.7	23.3	60.6	27.1
Jan-26	14.9	21.1	57.4	25.7
Feb-26	15.9	27.5	63.7	34.7
Mar-26	15.1	24.8	62.4	27.2
<b>Min</b>	<b>14.0</b>	<b>21.1</b>	<b>46.7</b>	<b>25.3</b>
<b>Max</b>	<b>16.2</b>	<b>27.5</b>	<b>63.7</b>	<b>34.7</b>
<b>Avg</b>	<b>15.1</b>	<b>24.3</b>	<b>56.8</b>	<b>28.6</b>

## JSPCB Norms

SO <sub>2</sub>	NO <sub>x</sub>	PM <sub>10</sub>	PM <sub>2.5</sub>
(µg/m <sup>3</sup> )	(µg/m <sup>3</sup> )	(µg/m <sup>3</sup> )	(µg/m <sup>3</sup> )
80	80	100	60

# Ambient air quality monitoring report from NABL/JSPCB approved lab for the month of October 2025


**INSTITUTE FOR ENVIRONMENTAL MANAGEMENT**  
Corporate Office: A-2, Madhav Nagar, Opp. Old Bus Stand, Sector-14, Gurgaon, Haryana (India)  
 Laboratory No: H-14 - A-2, Sector 14, Opp. Old Bus Stand, Sector-14, Gurgaon, Haryana (India)  
 IN: ISO/IEC 17025:2017 (CAL) and ISO/IEC 17025:2017 (L)


### TEST REPORT

**Client Name:** [Blank] | **Sample Reference No.:** [Blank] | **Sample Date:** 10/10/2025  
**Client Address:** [Blank] | **Client Contact:** [Blank]  
**Sample Location:** [Blank] | **Sample Date:** 10/10/2025  
**Sample Reference No.:** [Blank] | **Sample Date:** 10/10/2025

**Location of Laboratory:** [Blank] | **Location of Sample:** [Blank]  
**Sampling Method:** [Blank] | **Sampling Date:** 10/10/2025  
**Sampling Time:** [Blank] | **Sampling Duration:** [Blank]

Sl. No.	Parameter	Test Method No.	Unit	Result	Remarks
1	Particulate Matter (PM <sub>10</sub> )	IS 5182 Part 1 (2018)	µg/m <sup>3</sup>	100	100
2	Particulate Matter (PM <sub>2.5</sub> )	IS 5182 Part 2 (2018)	µg/m <sup>3</sup>	50	50
3	Carbon Dioxide (CO <sub>2</sub> )	IS 5182 Part 3 (2018)	ppm	400	400
4	Carbon Monoxide (CO)	IS 5182 Part 4 (2018)	ppm	10	10
5	Sulfur Dioxide (SO <sub>2</sub> )	IS 5182 Part 5 (2018)	ppm	10	10
6	Nitrogen Dioxide (NO <sub>2</sub> )	IS 5182 Part 6 (2018)	ppm	10	10
7	Ozone (O <sub>3</sub> )	IS 5182 Part 7 (2018)	ppm	10	10
8	Ammonia (NH <sub>3</sub> )	IS 5182 Part 8 (2018)	ppm	10	10
9	Hydrogen Sulfide (H <sub>2</sub> S)	IS 5182 Part 9 (2018)	ppm	10	10
10	Acetylene (C <sub>2</sub> H <sub>2</sub> )	IS 5182 Part 10 (2018)	ppm	10	10

**Remarks:** [Blank]

  
 Technical Manager

Page 2 of 2


**INSTITUTE FOR ENVIRONMENTAL MANAGEMENT**  
Corporate Office: A-2, Madhav Nagar, Opp. Old Bus Stand, Sector-14, Gurgaon, Haryana (India)  
 Laboratory No: H-14 - A-2, Sector 14, Opp. Old Bus Stand, Sector-14, Gurgaon, Haryana (India)  
 IN: ISO/IEC 17025:2017 (CAL) and ISO/IEC 17025:2017 (L)


### TEST REPORT

**Client Name:** [Blank] | **Sample Reference No.:** [Blank] | **Sample Date:** 10/10/2025  
**Client Address:** [Blank] | **Client Contact:** [Blank]  
**Sample Location:** [Blank] | **Sample Date:** 10/10/2025  
**Sample Reference No.:** [Blank] | **Sample Date:** 10/10/2025

**Location of Laboratory:** [Blank] | **Location of Sample:** [Blank]  
**Sampling Method:** [Blank] | **Sampling Date:** 10/10/2025  
**Sampling Time:** [Blank] | **Sampling Duration:** [Blank]

Sl. No.	Parameter	Test Method No.	Unit	Result	Remarks
1	Particulate Matter (PM <sub>10</sub> )	IS 5182 Part 1 (2018)	µg/m <sup>3</sup>	100	100
2	Particulate Matter (PM <sub>2.5</sub> )	IS 5182 Part 2 (2018)	µg/m <sup>3</sup>	50	50
3	Carbon Dioxide (CO <sub>2</sub> )	IS 5182 Part 3 (2018)	ppm	400	400
4	Carbon Monoxide (CO)	IS 5182 Part 4 (2018)	ppm	10	10
5	Sulfur Dioxide (SO <sub>2</sub> )	IS 5182 Part 5 (2018)	ppm	10	10
6	Nitrogen Dioxide (NO <sub>2</sub> )	IS 5182 Part 6 (2018)	ppm	10	10
7	Ozone (O <sub>3</sub> )	IS 5182 Part 7 (2018)	ppm	10	10
8	Ammonia (NH <sub>3</sub> )	IS 5182 Part 8 (2018)	ppm	10	10
9	Hydrogen Sulfide (H <sub>2</sub> S)	IS 5182 Part 9 (2018)	ppm	10	10
10	Acetylene (C <sub>2</sub> H <sub>2</sub> )	IS 5182 Part 10 (2018)	ppm	10	10

**Remarks:** [Blank]

  
 Technical Manager

Page 2 of 2


**INSTITUTE FOR ENVIRONMENTAL MANAGEMENT**  
Corporate Office: A-2, Madhav Nagar, Opp. Old Bus Stand, Sector-14, Gurgaon, Haryana (India)  
 Laboratory No: H-14 - A-2, Sector 14, Opp. Old Bus Stand, Sector-14, Gurgaon, Haryana (India)  
 IN: ISO/IEC 17025:2017 (CAL) and ISO/IEC 17025:2017 (L)


### TEST REPORT

**Client Name:** [Blank] | **Sample Reference No.:** [Blank] | **Sample Date:** 10/10/2025  
**Client Address:** [Blank] | **Client Contact:** [Blank]  
**Sample Location:** [Blank] | **Sample Date:** 10/10/2025  
**Sample Reference No.:** [Blank] | **Sample Date:** 10/10/2025

**Location of Laboratory:** [Blank] | **Location of Sample:** [Blank]  
**Sampling Method:** [Blank] | **Sampling Date:** 10/10/2025  
**Sampling Time:** [Blank] | **Sampling Duration:** [Blank]

Sl. No.	Parameter	Test Method No.	Unit	Result	Remarks
1	Particulate Matter (PM <sub>10</sub> )	IS 5182 Part 1 (2018)	µg/m <sup>3</sup>	100	100
2	Particulate Matter (PM <sub>2.5</sub> )	IS 5182 Part 2 (2018)	µg/m <sup>3</sup>	50	50
3	Carbon Dioxide (CO <sub>2</sub> )	IS 5182 Part 3 (2018)	ppm	400	400
4	Carbon Monoxide (CO)	IS 5182 Part 4 (2018)	ppm	10	10
5	Sulfur Dioxide (SO <sub>2</sub> )	IS 5182 Part 5 (2018)	ppm	10	10
6	Nitrogen Dioxide (NO <sub>2</sub> )	IS 5182 Part 6 (2018)	ppm	10	10
7	Ozone (O <sub>3</sub> )	IS 5182 Part 7 (2018)	ppm	10	10
8	Ammonia (NH <sub>3</sub> )	IS 5182 Part 8 (2018)	ppm	10	10
9	Hydrogen Sulfide (H <sub>2</sub> S)	IS 5182 Part 9 (2018)	ppm	10	10
10	Acetylene (C <sub>2</sub> H <sub>2</sub> )	IS 5182 Part 10 (2018)	ppm	10	10

**Remarks:** [Blank]

  
 Technical Manager

Page 2 of 2


**INSTITUTE FOR ENVIRONMENTAL MANAGEMENT**  
Corporate Office: A-2, Madhav Nagar, Opp. Old Bus Stand, Sector-14, Gurgaon, Haryana (India)  
 Laboratory No: H-14 - A-2, Sector 14, Opp. Old Bus Stand, Sector-14, Gurgaon, Haryana (India)  
 IN: ISO/IEC 17025:2017 (CAL) and ISO/IEC 17025:2017 (L)


### TEST REPORT

**Client Name:** [Blank] | **Sample Reference No.:** [Blank] | **Sample Date:** 10/10/2025  
**Client Address:** [Blank] | **Client Contact:** [Blank]  
**Sample Location:** [Blank] | **Sample Date:** 10/10/2025  
**Sample Reference No.:** [Blank] | **Sample Date:** 10/10/2025

**Location of Laboratory:** [Blank] | **Location of Sample:** [Blank]  
**Sampling Method:** [Blank] | **Sampling Date:** 10/10/2025  
**Sampling Time:** [Blank] | **Sampling Duration:** [Blank]

Sl. No.	Parameter	Test Method No.	Unit	Result	Remarks
1	Particulate Matter (PM <sub>10</sub> )	IS 5182 Part 1 (2018)	µg/m <sup>3</sup>	100	100
2	Particulate Matter (PM <sub>2.5</sub> )	IS 5182 Part 2 (2018)	µg/m <sup>3</sup>	50	50
3	Carbon Dioxide (CO <sub>2</sub> )	IS 5182 Part 3 (2018)	ppm	400	400
4	Carbon Monoxide (CO)	IS 5182 Part 4 (2018)	ppm	10	10
5	Sulfur Dioxide (SO <sub>2</sub> )	IS 5182 Part 5 (2018)	ppm	10	10
6	Nitrogen Dioxide (NO <sub>2</sub> )	IS 5182 Part 6 (2018)	ppm	10	10
7	Ozone (O <sub>3</sub> )	IS 5182 Part 7 (2018)	ppm	10	10
8	Ammonia (NH <sub>3</sub> )	IS 5182 Part 8 (2018)	ppm	10	10
9	Hydrogen Sulfide (H <sub>2</sub> S)	IS 5182 Part 9 (2018)	ppm	10	10
10	Acetylene (C <sub>2</sub> H <sub>2</sub> )	IS 5182 Part 10 (2018)	ppm	10	10

**Remarks:** [Blank]

  
 Technical Manager

Page 2 of 2





# Ambient air quality monitoring report from NABL/JSPCB approved lab for the month of March 2026

**INSTITUTE FOR ENVIRONMENTAL MANAGEMENT**  
 Corporate Office: A-13, Midway Road, Rajiv Gandhi Science Park, Sector 16, Gurgaon, Haryana - 122002  
 Laboratory Office: A-13, Midway Road, Rajiv Gandhi Science Park, Sector 16, Gurgaon, Haryana - 122002  
 Phone: 01294250101, 01294250102, Email: info@iemg.com

**TEST REPORT**

Client: **Greenfield** (Sample No. **Greenfield/2026/001**)  
 Report Date: **15/03/2026** (Test Period: **15/03/2026**)  
 Analyst: **Dr. Anshu Sharma**  
 Checker: **Dr. Pooja Singh**

Name and Contact Details of Client: **Greenfield (Sample No. Greenfield/2026/001)**  
 Plot No. **A-13, Midway Road, Rajiv Gandhi Science Park, Sector 16, Gurgaon, Haryana - 122002**  
 Contact No. **01294250101**

Information obtained from customer (if any):  
 Type of Sample: **Air** (Sampling Period: **15/03/2026**)  
 Sampling Frequency: **1/1**  
 Purpose of Test: **For compliance with CPCRI & National Ambient Air Quality Standards (NAAQS)**

Full Microbiological Information: **Air, Temp: 28.5°C, RH: 65%, Wind: 1.5 m/s, WSP: 10.5 mm**  
 Location of performance of the Laboratory: **Greenfield, Sector 16, Gurgaon, Haryana**  
 Sample Receipt Date: **15/03/2026** (Testing Period: **15/03/2026**) (Testing Status: **15/03/2026**)

Sl.No.	Parameter	Test Method No.	Unit	Result	Limit
1.	Particulate Matter (PM <sub>10</sub> )	IS 11723 Part 1 (2016)	µg/m <sup>3</sup>	145	250
2.	Particulate Matter (PM <sub>2.5</sub> )	IS 11723 Part 2 (2016)	µg/m <sup>3</sup>	85	150
3.	Sulphur Dioxide (SO <sub>2</sub> )	IS 11723 Part 3 (2016)	ppb	12	100
4.	Nitrogen Dioxide (NO <sub>2</sub> )	IS 11723 Part 4 (2016)	ppb	18	100
5.	Ozone (O <sub>3</sub> )	IS 11723 Part 5 (2016)	ppb	12	100
6.	Lead (Pb)	IS 11723 Part 6 (2016)	µg/m <sup>3</sup>	1.2	100
7.	Cadmium (Cd)	IS 11723 Part 7 (2016)	µg/m <sup>3</sup>	0.1	100
8.	Mercury (Hg)	IS 11723 Part 8 (2016)	µg/m <sup>3</sup>	0.01	100

For Condition of Lab: **Calibrated & Approved Instrumentation (CPCRI & National Ambient Air Quality Standards (NAAQS))**  
 Accredited to Standard: **ISO 15189:2013 (NABL Accredited Lab)**  
 Name of Accredited Authority: **NABL, New Delhi, India**  
 Name of Accredited Authority: **NABL, New Delhi, India**  
 Name of Accredited Authority: **NABL, New Delhi, India**

Remarks: **All parameters are within the permissible limits as per CPCRI & National Ambient Air Quality Standards (NAAQS).**

Quality Control Note:  
 1. The report is valid only for the purpose for which it is issued.  
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Dr. Anshu Sharma  
 Technical Manager

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**INSTITUTE FOR ENVIRONMENTAL MANAGEMENT**  
 Corporate Office: A-13, Midway Road, Rajiv Gandhi Science Park, Sector 16, Gurgaon, Haryana - 122002  
 Laboratory Office: A-13, Midway Road, Rajiv Gandhi Science Park, Sector 16, Gurgaon, Haryana - 122002  
 Phone: 01294250101, 01294250102, Email: info@iemg.com

**TEST REPORT**

Client: **Greenfield** (Sample No. **Greenfield/2026/002**)  
 Report Date: **16/03/2026** (Test Period: **16/03/2026**)  
 Analyst: **Dr. Anshu Sharma**  
 Checker: **Dr. Pooja Singh**

Name and Contact Details of Client: **Greenfield (Sample No. Greenfield/2026/002)**  
 Plot No. **A-13, Midway Road, Rajiv Gandhi Science Park, Sector 16, Gurgaon, Haryana - 122002**  
 Contact No. **01294250101**

Information obtained from customer (if any):  
 Type of Sample: **Air** (Sampling Period: **16/03/2026**)  
 Sampling Frequency: **1/1**  
 Purpose of Test: **For compliance with CPCRI & National Ambient Air Quality Standards (NAAQS)**

Full Microbiological Information: **Air, Temp: 29.0°C, RH: 68%, Wind: 1.8 m/s, WSP: 11.0 mm**  
 Location of performance of the Laboratory: **Greenfield, Sector 16, Gurgaon, Haryana**  
 Sample Receipt Date: **16/03/2026** (Testing Period: **16/03/2026**) (Testing Status: **16/03/2026**)

Sl.No.	Parameter	Test Method No.	Unit	Result	Limit
1.	Particulate Matter (PM <sub>10</sub> )	IS 11723 Part 1 (2016)	µg/m <sup>3</sup>	150	250
2.	Particulate Matter (PM <sub>2.5</sub> )	IS 11723 Part 2 (2016)	µg/m <sup>3</sup>	90	150
3.	Sulphur Dioxide (SO <sub>2</sub> )	IS 11723 Part 3 (2016)	ppb	15	100
4.	Nitrogen Dioxide (NO <sub>2</sub> )	IS 11723 Part 4 (2016)	ppb	20	100
5.	Ozone (O <sub>3</sub> )	IS 11723 Part 5 (2016)	ppb	15	100
6.	Lead (Pb)	IS 11723 Part 6 (2016)	µg/m <sup>3</sup>	1.5	100
7.	Cadmium (Cd)	IS 11723 Part 7 (2016)	µg/m <sup>3</sup>	0.15	100
8.	Mercury (Hg)	IS 11723 Part 8 (2016)	µg/m <sup>3</sup>	0.015	100

For Condition of Lab: **Calibrated & Approved Instrumentation (CPCRI & National Ambient Air Quality Standards (NAAQS))**  
 Accredited to Standard: **ISO 15189:2013 (NABL Accredited Lab)**  
 Name of Accredited Authority: **NABL, New Delhi, India**  
 Name of Accredited Authority: **NABL, New Delhi, India**  
 Name of Accredited Authority: **NABL, New Delhi, India**

Remarks: **All parameters are within the permissible limits as per CPCRI & National Ambient Air Quality Standards (NAAQS).**

Quality Control Note:  
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Dr. Anshu Sharma  
 Technical Manager

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 Corporate Office: A-13, Midway Road, Rajiv Gandhi Science Park, Sector 16, Gurgaon, Haryana - 122002  
 Laboratory Office: A-13, Midway Road, Rajiv Gandhi Science Park, Sector 16, Gurgaon, Haryana - 122002  
 Phone: 01294250101, 01294250102, Email: info@iemg.com

**TEST REPORT**

Client: **Greenfield** (Sample No. **Greenfield/2026/003**)  
 Report Date: **17/03/2026** (Test Period: **17/03/2026**)  
 Analyst: **Dr. Anshu Sharma**  
 Checker: **Dr. Pooja Singh**

Name and Contact Details of Client: **Greenfield (Sample No. Greenfield/2026/003)**  
 Plot No. **A-13, Midway Road, Rajiv Gandhi Science Park, Sector 16, Gurgaon, Haryana - 122002**  
 Contact No. **01294250101**

Information obtained from customer (if any):  
 Type of Sample: **Air** (Sampling Period: **17/03/2026**)  
 Sampling Frequency: **1/1**  
 Purpose of Test: **For compliance with CPCRI & National Ambient Air Quality Standards (NAAQS)**

Full Microbiological Information: **Air, Temp: 28.0°C, RH: 62%, Wind: 1.5 m/s, WSP: 10.0 mm**  
 Location of performance of the Laboratory: **Greenfield, Sector 16, Gurgaon, Haryana**  
 Sample Receipt Date: **17/03/2026** (Testing Period: **17/03/2026**) (Testing Status: **17/03/2026**)

Sl.No.	Parameter	Test Method No.	Unit	Result	Limit
1.	Particulate Matter (PM <sub>10</sub> )	IS 11723 Part 1 (2016)	µg/m <sup>3</sup>	140	250
2.	Particulate Matter (PM <sub>2.5</sub> )	IS 11723 Part 2 (2016)	µg/m <sup>3</sup>	80	150
3.	Sulphur Dioxide (SO <sub>2</sub> )	IS 11723 Part 3 (2016)	ppb	10	100
4.	Nitrogen Dioxide (NO <sub>2</sub> )	IS 11723 Part 4 (2016)	ppb	15	100
5.	Ozone (O <sub>3</sub> )	IS 11723 Part 5 (2016)	ppb	10	100
6.	Lead (Pb)	IS 11723 Part 6 (2016)	µg/m <sup>3</sup>	1.0	100
7.	Cadmium (Cd)	IS 11723 Part 7 (2016)	µg/m <sup>3</sup>	0.08	100
8.	Mercury (Hg)	IS 11723 Part 8 (2016)	µg/m <sup>3</sup>	0.008	100

For Condition of Lab: **Calibrated & Approved Instrumentation (CPCRI & National Ambient Air Quality Standards (NAAQS))**  
 Accredited to Standard: **ISO 15189:2013 (NABL Accredited Lab)**  
 Name of Accredited Authority: **NABL, New Delhi, India**  
 Name of Accredited Authority: **NABL, New Delhi, India**  
 Name of Accredited Authority: **NABL, New Delhi, India**

Remarks: **All parameters are within the permissible limits as per CPCRI & National Ambient Air Quality Standards (NAAQS).**

Quality Control Note:  
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Dr. Anshu Sharma  
 Technical Manager

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**INSTITUTE FOR ENVIRONMENTAL MANAGEMENT**  
 Corporate Office: A-13, Midway Road, Rajiv Gandhi Science Park, Sector 16, Gurgaon, Haryana - 122002  
 Laboratory Office: A-13, Midway Road, Rajiv Gandhi Science Park, Sector 16, Gurgaon, Haryana - 122002  
 Phone: 01294250101, 01294250102, Email: info@iemg.com

**TEST REPORT**

Client: **Greenfield** (Sample No. **Greenfield/2026/004**)  
 Report Date: **18/03/2026** (Test Period: **18/03/2026**)  
 Analyst: **Dr. Anshu Sharma**  
 Checker: **Dr. Pooja Singh**

Name and Contact Details of Client: **Greenfield (Sample No. Greenfield/2026/004)**  
 Plot No. **A-13, Midway Road, Rajiv Gandhi Science Park, Sector 16, Gurgaon, Haryana - 122002**  
 Contact No. **01294250101**

Information obtained from customer (if any):  
 Type of Sample: **Air** (Sampling Period: **18/03/2026**)  
 Sampling Frequency: **1/1**  
 Purpose of Test: **For compliance with CPCRI & National Ambient Air Quality Standards (NAAQS)**

Full Microbiological Information: **Air, Temp: 29.5°C, RH: 70%, Wind: 2.0 m/s, WSP: 11.5 mm**  
 Location of performance of the Laboratory: **Greenfield, Sector 16, Gurgaon, Haryana**  
 Sample Receipt Date: **18/03/2026** (Testing Period: **18/03/2026**) (Testing Status: **18/03/2026**)

Sl.No.	Parameter	Test Method No.	Unit	Result	Limit
1.	Particulate Matter (PM <sub>10</sub> )	IS 11723 Part 1 (2016)	µg/m <sup>3</sup>	160	250
2.	Particulate Matter (PM <sub>2.5</sub> )	IS 11723 Part 2 (2016)	µg/m <sup>3</sup>	100	150
3.	Sulphur Dioxide (SO <sub>2</sub> )	IS 11723 Part 3 (2016)	ppb	18	100
4.	Nitrogen Dioxide (NO <sub>2</sub> )	IS 11723 Part 4 (2016)	ppb	25	100
5.	Ozone (O <sub>3</sub> )	IS 11723 Part 5 (2016)	ppb	18	100
6.	Lead (Pb)	IS 11723 Part 6 (2016)	µg/m <sup>3</sup>	1.8	100
7.	Cadmium (Cd)	IS 11723 Part 7 (2016)	µg/m <sup>3</sup>	0.18	100
8.	Mercury (Hg)	IS 11723 Part 8 (2016)	µg/m <sup>3</sup>	0.018	100

For Condition of Lab: **Calibrated & Approved Instrumentation (CPCRI & National Ambient Air Quality Standards (NAAQS))**  
 Accredited to Standard: **ISO 15189:2013 (NABL Accredited Lab)**  
 Name of Accredited Authority: **NABL, New Delhi, India**  
 Name of Accredited Authority: **NABL, New Delhi, India**  
 Name of Accredited Authority: **NABL, New Delhi, India**

Remarks: **All parameters are within the permissible limits as per CPCRI & National Ambient Air Quality Standards (NAAQS).**

Quality Control Note:  
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Dr. Anshu Sharma  
 Technical Manager

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## Annexure-8

### List of air pollution control device installed in plant

<b>Dalmia Cement (Bharat) Limited, Bokaro</b>					
Sl. No.	Location	Equipment No.	Capacity in m <sup>3</sup> /hr	No. of Bags	Standard
1	Cement Sillo Top	591 BF1	7500	64	30 mg/Nm <sup>3</sup> ( New CPCB norms for Stack emission)
2	Cement Sillo Top	591 BF2	7500	64	
3	Cement Sillo Top	591 BF3	7500	64	
4	C.S.Bin Dedusting	611BF1	3664	25	
5	C.S.Bin Dedusting	611BF2	3664	25	
6	C.S.Bin Dedusting	611BF3	3664	25	
7	Nuisance Dedusting	611BF4	18000	144	
8	Packing Plant	641BF1	34000	256	
9	Packing Plant	641BF2	16000	121	
10	Packing Plant	642BF1	34000	256	
11	Packing Plant	642BF2	16000	121	
12	Reclaiming Tunnel For Slag & Gypsum Conv.	K91 BF1	12500	100	
13	Clinker Silo Bottom	511BF2	9000	72	
14	Clinker Silo Bottom	511 BF1	9000	72	
15	Cement Mill Hopper	K91 BF2	12500	100	
16	Coal Crusher	L31 BF1	5000	60	
17	FBC	L32 BF1	5000	60	
18	Bag House-1	521BF7	16000	121	
19	Bag House-2	522 BF7	3664	25	
20	Bag House - 1	521 BF6	714240	5632	
21	Bag House - 2	522 BF6	714240	5632	
22	C. Mill Hopper Top	511 BF3	9000	72	
23	C. Mill Hopper Bottom	521 BF1	14880	100	
24	C. Mill Hopper Bottom	521 BF2	13680	100	
25	Cement Mill - 1	521 BF4	15540	121	
26	Reject Building	521 BF5	7500	64	
27	Cement Mill - 2	522 BF4	15540	121	
28	Reject Building	522 BF5	7500	64	
29	Transfer Point Dedusting In Hopper Building	522 BF1	14880	100	
30	Transfer Point Dedusting In Hopper Building	522 BF2	13680	100	
31	Transfer Tower-1	491 BF1	9000	72	
32	Clinker Sillo Top	491 BF2	9000	72	
33	Packing Plant	643 BF-1	40000	308	
34	Packing Plant	643 BF-2	20000	154	
35	Outside Cement Silo	643 BF-3	7500	57	

**Annexure-9****Pollution control maintenance details for the period of October 2025 to March 2026**

DALMIA CEMENNT (BHARAT) Limited							
Pollution control equipment maintenance details							
(October-2025 to March 2026)							
Plant	Material group description	Material - Desc	Month	As per Budget format	Quantity	UOM	Amount in INR
JCW Line-1	Pollution control	FILTER BAG,DCBL/STD/F-BAG/105A	25-Oct	Mechanical	19	NO	4,997
JCW Line-1	Pollution control	FILTER BAG,HOMOPOLYMER,150X3660MM	25-Dec	Mechanical	50	ST	24,741
JCW Line-1	Pollution control	FLTR BAG;160MM,3660MM; DCBL/L2/3.66	26-Jan	Mechanical	100	NO	30,800
JCW Line-1	Pollution control	FILTER BAG,HOMOPOLYMER,150X3660MM	26-Feb	Mechanical	60	ST	29,689
Total						Total Line-1	90,227

### Compliance of CREP Conditions

<u>DALMIA CEMENT BHARAT LIMITED, BOKARO</u>		
<u>COMPLIANCE STATUS OF C.R.E.P. ACTION POINTS</u>		
SN.	CREP CONDITION	CREP COMPLIANCE STATUS
1	Cement plant, which are not complying with notified standards shall do the following to meet the standards.	Not applicable.
	1- Augmentation of existing Air pollution Control Devices by July 2003.	The plant has been commissioned in the month May 2011. It's complying with notified standards of 30 mg/Nm <sup>3</sup> for Stack particulate emission.
	2- Replacement of existing Air Pollution Control Devices by July 2004.	
2	Cement Plant located in critically polluted or urban areas (including 5 km distance outside urban boundary) will meet 100-mg/Nm <sup>3</sup> limit of particulate matter by December 2004 and continue working to reduce the emission of particulate matter emissions.	The plant is located at notified industrial area Bokaro Balidih Industrial Area Development Authority, Bokaro, Jharkhand. As stated above, the Air Pollution Control Devices are designed to maintain the emission of particulate matter from stack less than 30 mg/Nm <sup>3</sup> .
3	The New cement Kilns to be accorded by NOC / Environmental Clearance w.e.f. 01-04-2003 will meet the limit of 50 mg / Nm <sup>3</sup> for particulate matter emission.	Not Applicable
4	CPCB will evolved load-based standards by December 2003.	Not Applicable
5	CPCB and NCCBM will evolved SO <sub>2</sub> and NO <sub>x</sub> emission standards by June 2004.	Not Applicable
6	The Cement industry will control fugitive emission from all the raw materials and products storage and transfer points by December 2003. However, the feasibility for the control of fugitive emission from limestone and coal storage area will be decided by the National Task Force (NTF) The NTF shall submit its recommendations within three months.	Dalmia Cement (Bharat) Limited is a cement grinding unit. Raw materials like Gypsum and Coal are stored in the covered shed. Clinker is stored in Clinker silo. Slag having moisture stored in slag yard covered tarpaulin. Cement and coal storage area will be decided by the stored in Cement Silo. Bag filters have been installed at every transfer point of raw material and product transport circuits.
7	CPCB, NCCBM, 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 equipments and feedback from the industries and equipment manufacturers, NTF will decide feasible unit operations/ sections for installation of continuous monitoring systems(CMS) by December 2003.	On line continuous stack monitoring station have already installed at Cement Mill Stack plant with direct connectivity to JSPCB server Ranchi & CPCB, Delhi.
9	Tripping in the ESP to be minimized by July 2003 as per the recommendations of NTF.	Not Applicable (We have only Bag Houses/Bag Filters).
10	Industries will submit the target date to enhance the utilization of Waste material by April, 2003.	We are utilizing Slag and fly ash as a raw material in cement manufacturing which is one of the waste by-product of Steel plant and Power plant.
11	NCCBM 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.	DCBL is a cement grinding unit, required 120-150°C temperature only for slag drying purpose.

## Annexure-11

All plant Internal roads are concreted and cleaned by vacuum road sweeping machine



Log book maintained of road sweeping machine







Cement grinding and packing work under covered shed



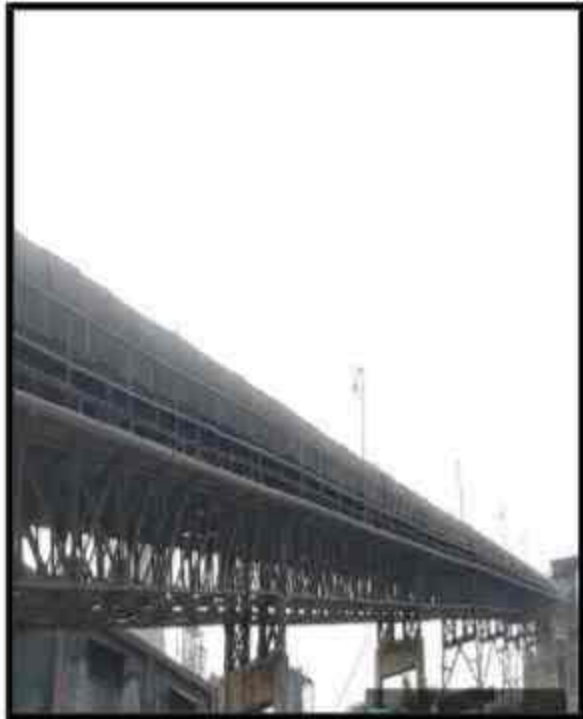
Covered packing unit



Belt conveyers are fully covered



Covered grinding mill



Belt conveyers are fully covered

**Raw material and products transported in covered vehicles**



**Transportation in covered truck**



Covered Wagon loading

bulker

**Boundary walls constructed around the plant and inside the plant area along with thick green belt development act as wind shelter**



**Boundary wall constructed along with tree plantation around the plant**



**Boundary wall constructed in packing plant area act as wind shelter**



**Boundary wall and thick greenbelt developed in between Plant and hostels**

**Dalmia Cement (Bharat) Limited Bokaro**

**Truck parking area photographs**




## PUC Certificates of vehicles

Form 59  
(See rules 115 (2))


**Pollution Under Control Certificate**  
Authorised By  
Government of Jharkhand

Date : 07/03/2026  
Time : 19:31:07 PM  
Validity upto : 06/03/2027



Certificate No. : JH00900480010798  
Registration No. : JH09BF3938  
Date of Registration : 28/Apr/2024  
Month & Year of Manufacturing : Month 2024  
Vehi. Make/Model : \*\*\*\*\*  
Emission Norms : BHARAT STAGE VI  
Fuel : DIESEL  
PUC Code : JH0090048  
GSTIN :  
Fee : Rs. 300.00  
ML observation : No

Vehicle Photo with Registration plate  
50 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
Idle Emissions	Carbon Monoxide (CO)	percentage (%)		
	Hydrocarbon (THC/HC)	ppm		
High Idle Emissions	CO	percentage (%)		
	ppm	RPM	2500 ± 200	
Smoke Density	Lambda	-	1 ± 0.03	
	Light absorption coefficient	L/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 vehicle by logging to <https://puc.parivahan.gov.in>


Authorised Signature with stamp of PUC Operator  
50mm x 25 mm

GOD BLESS EMISSION TESTING CENTRE

Form 59  
(See rules 115 (2))


**Pollution Under Control Certificate**  
Authorised By  
Government of Jharkhand

Date : 26/04/2026  
Time : 11:30:55 AM  
Validity upto : 25/04/2027



Certificate No. : JH00900710001435  
Registration No. : JH09BF3938  
Date of Registration : 28/May/2024  
Month & Year of Manufacturing : Month 2024  
Vehi. Make/Model : \*\*\*\*\*  
Emission Norms : BHARAT STAGE VI  
Fuel : DIESEL  
PUC Code : JH0090071  
GSTIN :  
Fee : Rs. 300.00  
ML observation : No

Vehicle Photo with Registration plate  
50 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
Idle Emissions	Carbon Monoxide (CO)	percentage (%)		
	Hydrocarbon (THC/HC)	ppm		
High Idle Emissions	CO	percentage (%)		
	ppm	RPM	2500 ± 200	
Smoke Density	Lambda	-	1 ± 0.03	
	Light absorption coefficient	L/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.parivahan.gov.in>

Authorised Signature with stamp of PUC Operator  
50mm x 25 mm

M/S NAA KARAKHYA FUELS

Form 5D

[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 SL No. : JH0900710001424  
Registration No. : JH05BP9719  
Date of Registration : 28/May/2024  
Month & Year of Manufacturing : March-2024  
Valid Mobile Number : \*\*\*\*0892  
Emission Norms : BHARAT STAGE VI  
Fuel : DIESEL  
PUC Code : JH090071  
GSTIN :  
Fees : Rs. 300.00  
ML 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.parivahan.gov.in>

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

M/S MAA KAMAKHYA FUELS

Fixed type water sprinkler provided in plant out side gate 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



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 UP02-1170				Month of October 2025				
Date	Initial meter	Final meter	Volume meter	H.S.D	Qty	MVA	Location of water consuming area	Qty
01-10-25	120091	120704	1.70				Highgate out side road, Highgate, Central side	
02-10-25	120704	120724	0.20				Rain	
03-10-25	120724	120724	0.00				Rain	
04-10-25	120724	120724	0.00				Highgate out side road, Highgate, Central side	
05-10-25	120724	120724	0.00				Rain	
06-10-25	120724	120724	0.00				Highgate out side road, Highgate, Central side	
07-10-25	120724	120724	0.00				Highgate out side road, Highgate, Central side	
08-10-25	120724	120724	0.00				Highgate out side road, Highgate, Central side	
09-10-25	120724	120724	0.00				Highgate out side road, Highgate, Central side	
10-10-25	120724	120724	0.00				Rain	
11-10-25	120724	120724	0.00				Rain	
12-10-25	120724	120724	0.00				Rain	
13-10-25	120724	120724	0.00				Highgate out side road, Highgate, Central side	
14-10-25	120724	120724	0.00				Highgate out side road, Highgate, Central side	
15-10-25	120724	120724	0.00				Highgate out side road, Highgate, Central side	
16-10-25	120724	120724	0.00	40 Litre			Highgate out side road, Highgate, Central side	
17-10-25	120724	120724	0.00	3.800	529900		Highgate out side road, Highgate, Central side	
18-10-25	120724	120724	0.00				Highgate out side road, Highgate, Central side	
19-10-25	120724	120724	0.00				Roadside side, Highgate out side road, Highgate, Central side	
20-10-25	120724	120724	0.00				Roadside side, Highgate out side road, Highgate, Central side	
21-10-25	120724	120724	0.00				Roadside side, Highgate out side road, Highgate, Central side	
22-10-25	120724	120724	0.00				Highgate out side road, Highgate, Central side	
23-10-25	120724	120724	0.00				Highgate out side road, Highgate, Central side	
24-10-25	120724	120724	0.00				Highgate out side road, Highgate, Central side	
25-10-25	120724	120724	0.00				Highgate out side road, Highgate, Central side	
26-10-25	120724	120724	0.00				Highgate out side road, Highgate, Central side	
27-10-25	120724	120724	0.00				Roadside side, Highgate out side road, Highgate, Central side	
28-10-25	120724	120724	0.00				Rain	
29-10-25	120724	120724	0.00				Rain	
30-10-25	120724	120724	0.00				Rain	
31-10-25	120724	120724	0.00				Rain	

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

Month of March 2026				Water Tanker UP02-1170				
Date	Initial meter	Final meter	Volume meter	H.S.D	Qty	MVA	Location of water consuming area	Qty
01-03-26	120724	120724	0.00				Highgate out side road, Highgate, Central side	
02-03-26	120724	120724	0.00				Highgate out side road, Highgate, Central side	
03-03-26	120724	120724	0.00				Highgate out side road, Highgate, Central side	
04-03-26	120724	120724	0.00				Highgate out side road, Highgate, Central side	
05-03-26	120724	120724	0.00				Highgate out side road, Highgate, Central side	
06-03-26	120724	120724	0.00				Highgate out side road, Highgate, Central side	
07-03-26	120724	120724	0.00				Highgate out side road, Highgate, Central side	
08-03-26	120724	120724	0.00				Highgate out side road, Highgate, Central side	
09-03-26	120724	120724	0.00				Highgate out side road, Highgate, Central side	
10-03-26	120724	120724	0.00				Highgate out side road, Highgate, Central side	
11-03-26	120724	120724	0.00				Highgate out side road, Highgate, Central side	
12-03-26	120724	120724	0.00				Highgate out side road, Highgate, Central side	
13-03-26	120724	120724	0.00				Highgate out side road, Highgate, Central side	
14-03-26	120724	120724	0.00				Highgate out side road, Highgate, Central side	
15-03-26	120724	120724	0.00				Highgate out side road, Highgate, Central side	
16-03-26	120724	120724	0.00				Highgate out side road, Highgate, Central side	
17-03-26	120724	120724	0.00				Highgate out side road, Highgate, Central side	
18-03-26	120724	120724	0.00				Highgate out side road, Highgate, Central side	
19-03-26	120724	120724	0.00				Highgate out side road, Highgate, Central side	
20-03-26	120724	120724	0.00				Highgate out side road, Highgate, Central side	
21-03-26	120724	120724	0.00				Highgate out side road, Highgate, Central side	
22-03-26	120724	120724	0.00				Highgate out side road, Highgate, Central side	
23-03-26	120724	120724	0.00				Highgate out side road, Highgate, Central side	
24-03-26	120724	120724	0.00				Highgate out side road, Highgate, Central side	
25-03-26	120724	120724	0.00				Highgate out side road, Highgate, Central side	
26-03-26	120724	120724	0.00				Highgate out side road, Highgate, Central side	
27-03-26	120724	120724	0.00				Highgate out side road, Highgate, Central side	
28-03-26	120724	120724	0.00				Highgate out side road, Highgate, Central side	
29-03-26	120724	120724	0.00				Highgate out side road, Highgate, Central side	
30-03-26	120724	120724	0.00				Highgate out side road, Highgate, Central side	
31-03-26	120724	120724	0.00				Highgate out side road, Highgate, Central side	

Air ventilation arrangement done to adequate air change



Pump house



compressor room



Ventilation at Packing plant

**Annexure-17**

**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 Bhutkuru village month of October 2025


**INSTITUTE FOR ENVIRONMENTAL MANAGEMENT**  
Corporate Office: A-8, Main Street, Sector-40, Gurgaon, Haryana, India. Phone: 01292-500000  
 Laboratory: Sector-17/17B, Gurgaon, Haryana, India. Phone: 01292-500000  
 Fax: 01292-500000, 01292-500001, 01292-500002, 01292-500003


### TEST REPORT

**Client:** Government of Punjab, Chandigarh  
**Report No.:** IEM/2025/010  
**Sample No.:** IEM/2025/010/01

**Name and Contact Details of Customer:** Government of Punjab, Chandigarh  
 Plot No. 10, Sector-17B, Chandigarh, India  
 Phone: 0172-2740000, 0172-2740001, 0172-2740002, 0172-2740003  
 Fax: 0172-2740004, 0172-2740005, 0172-2740006, 0172-2740007, 0172-2740008, 0172-2740009, 0172-2740010, 0172-2740011, 0172-2740012, 0172-2740013, 0172-2740014, 0172-2740015, 0172-2740016, 0172-2740017, 0172-2740018, 0172-2740019, 0172-2740020, 0172-2740021, 0172-2740022, 0172-2740023, 0172-2740024, 0172-2740025, 0172-2740026, 0172-2740027, 0172-2740028, 0172-2740029, 0172-2740030, 0172-2740031, 0172-2740032, 0172-2740033, 0172-2740034, 0172-2740035, 0172-2740036, 0172-2740037, 0172-2740038, 0172-2740039, 0172-2740040, 0172-2740041, 0172-2740042, 0172-2740043, 0172-2740044, 0172-2740045, 0172-2740046, 0172-2740047, 0172-2740048, 0172-2740049, 0172-2740050, 0172-2740051, 0172-2740052, 0172-2740053, 0172-2740054, 0172-2740055, 0172-2740056, 0172-2740057, 0172-2740058, 0172-2740059, 0172-2740060, 0172-2740061, 0172-2740062, 0172-2740063, 0172-2740064, 0172-2740065, 0172-2740066, 0172-2740067, 0172-2740068, 0172-2740069, 0172-2740070, 0172-2740071, 0172-2740072, 0172-2740073, 0172-2740074, 0172-2740075, 0172-2740076, 0172-2740077, 0172-2740078, 0172-2740079, 0172-2740080, 0172-2740081, 0172-2740082, 0172-2740083, 0172-2740084, 0172-2740085, 0172-2740086, 0172-2740087, 0172-2740088, 0172-2740089, 0172-2740090, 0172-2740091, 0172-2740092, 0172-2740093, 0172-2740094, 0172-2740095, 0172-2740096, 0172-2740097, 0172-2740098, 0172-2740099, 0172-2740100

**Information of nearest Sewerage Treatment Plant (STP):**  
 Type of Industry: Municipal  
 Discharge Point: Sector-17B, Chandigarh  
 Distance: 500 m

**Sampling Location:** Sector-17B, Chandigarh  
 Date: 10/10/2025  
 Time: 10:00 AM  
 Location of Laboratory: IEM, Gurgaon, Haryana  
 Sample Receipt Date: 11/10/2025

No.	Tested Parameter	Unit	Method No.	Result	Standard	Remarks
1	pH	-	ISO 10545-1	7.2	6.5 - 8.5	In compliance
2	Total Hardness	mg/L	ISO 10545-2	150	500	In compliance
3	Calcium	mg/L	ISO 10545-3	75	200	In compliance
4	Magnesium	mg/L	ISO 10545-4	75	300	In compliance
5	Total Dissolved Solids (TDS)	mg/L	ISO 10545-5	150	500	In compliance
6	Chloride	mg/L	ISO 10545-6	10	250	In compliance
7	Total Sulfate	mg/L	ISO 10545-7	10	400	In compliance
8	Total Sulfate as SO4	mg/L	ISO 10545-8	10	400	In compliance
9	Iron	mg/L	ISO 10545-9	0.1	0.3	In compliance
10	Copper	mg/L	ISO 10545-10	0.05	1.0	In compliance
11	Nickel	mg/L	ISO 10545-11	0.05	0.1	In compliance
12	Lead	mg/L	ISO 10545-12	0.05	0.1	In compliance
13	Cadmium	mg/L	ISO 10545-13	0.01	0.01	In compliance
14	Chromium	mg/L	ISO 10545-14	0.05	0.05	In compliance
15	Vanadium	mg/L	ISO 10545-15	0.05	0.05	In compliance
16	Manganese	mg/L	ISO 10545-16	0.05	0.05	In compliance
17	Zinc	mg/L	ISO 10545-17	0.05	0.05	In compliance
18	Fluoride	mg/L	ISO 10545-18	0.05	0.05	In compliance
19	Barium	mg/L	ISO 10545-19	0.05	0.05	In compliance
20	Selenium	mg/L	ISO 10545-20	0.05	0.05	In compliance
21	Strontium	mg/L	ISO 10545-21	0.05	0.05	In compliance
22	Cobalt	mg/L	ISO 10545-22	0.05	0.05	In compliance
23	Molybdenum	mg/L	ISO 10545-23	0.05	0.05	In compliance
24	Antimony	mg/L	ISO 10545-24	0.05	0.05	In compliance
25	Bismuth	mg/L	ISO 10545-25	0.05	0.05	In compliance
26	Thallium	mg/L	ISO 10545-26	0.05	0.05	In compliance
27	Lead	mg/L	ISO 10545-27	0.05	0.05	In compliance
28	Cadmium	mg/L	ISO 10545-28	0.01	0.01	In compliance
29	Chromium	mg/L	ISO 10545-29	0.05	0.05	In compliance
30	Vanadium	mg/L	ISO 10545-30	0.05	0.05	In compliance
31	Nickel	mg/L	ISO 10545-31	0.05	0.05	In compliance
32	Copper	mg/L	ISO 10545-32	0.05	0.05	In compliance
33	Zinc	mg/L	ISO 10545-33	0.05	0.05	In compliance
34	Manganese	mg/L	ISO 10545-34	0.05	0.05	In compliance
35	Iron	mg/L	ISO 10545-35	0.05	0.05	In compliance
36	Fluoride	mg/L	ISO 10545-36	0.05	0.05	In compliance
37	Chloride	mg/L	ISO 10545-37	10	250	In compliance
38	Sulfate	mg/L	ISO 10545-38	10	400	In compliance
39	Total Hardness	mg/L	ISO 10545-39	150	500	In compliance
40	pH	-	ISO 10545-40	7.2	6.5 - 8.5	In compliance

**Remarks:** All parameters are within the permissible limits as per BIS IS 10545-1 to 10545-40. The water is suitable for drinking purposes.

**Signature:**   
**Technical Manager**  
 IEM, Gurgaon, Haryana

Page 2 of 2


**INSTITUTE FOR ENVIRONMENTAL MANAGEMENT**  
Corporate Office: A-8, Main Street, Sector-40, Gurgaon, Haryana, India. Phone: 01292-500000  
 Laboratory: Sector-17/17B, Gurgaon, Haryana, India. Phone: 01292-500000  
 Fax: 01292-500000, 01292-500001, 01292-500002, 01292-500003


### TEST REPORT

**Client:** Government of Punjab, Chandigarh  
**Report No.:** IEM/2025/010  
**Sample No.:** IEM/2025/010/02

**Name and Contact Details of Customer:** Government of Punjab, Chandigarh  
 Plot No. 10, Sector-17B, Chandigarh, India  
 Phone: 0172-2740000, 0172-2740001, 0172-2740002, 0172-2740003  
 Fax: 0172-2740004, 0172-2740005, 0172-2740006, 0172-2740007, 0172-2740008, 0172-2740009, 0172-2740010, 0172-2740011, 0172-2740012, 0172-2740013, 0172-2740014, 0172-2740015, 0172-2740016, 0172-2740017, 0172-2740018, 0172-2740019, 0172-2740020, 0172-2740021, 0172-2740022, 0172-2740023, 0172-2740024, 0172-2740025, 0172-2740026, 0172-2740027, 0172-2740028, 0172-2740029, 0172-2740030, 0172-2740031, 0172-2740032, 0172-2740033, 0172-2740034, 0172-2740035, 0172-2740036, 0172-2740037, 0172-2740038, 0172-2740039, 0172-2740040, 0172-2740041, 0172-2740042, 0172-2740043, 0172-2740044, 0172-2740045, 0172-2740046, 0172-2740047, 0172-2740048, 0172-2740049, 0172-2740050, 0172-2740051, 0172-2740052, 0172-2740053, 0172-2740054, 0172-2740055, 0172-2740056, 0172-2740057, 0172-2740058, 0172-2740059, 0172-2740060, 0172-2740061, 0172-2740062, 0172-2740063, 0172-2740064, 0172-2740065, 0172-2740066, 0172-2740067, 0172-2740068, 0172-2740069, 0172-2740070, 0172-2740071, 0172-2740072, 0172-2740073, 0172-2740074, 0172-2740075, 0172-2740076, 0172-2740077, 0172-2740078, 0172-2740079, 0172-2740080, 0172-2740081, 0172-2740082, 0172-2740083, 0172-2740084, 0172-2740085, 0172-2740086, 0172-2740087, 0172-2740088, 0172-2740089, 0172-2740090, 0172-2740091, 0172-2740092, 0172-2740093, 0172-2740094, 0172-2740095, 0172-2740096, 0172-2740097, 0172-2740098, 0172-2740099, 0172-2740100

**Information of nearest Sewerage Treatment Plant (STP):**  
 Type of Industry: Municipal  
 Discharge Point: Sector-17B, Chandigarh  
 Distance: 500 m

**Sampling Location:** Sector-17B, Chandigarh  
 Date: 10/10/2025  
 Time: 10:00 AM  
 Location of Laboratory: IEM, Gurgaon, Haryana  
 Sample Receipt Date: 11/10/2025

No.	Tested Parameter	Unit	Method No.	Result	Standard	Remarks
1	pH	-	ISO 10545-1	7.2	6.5 - 8.5	In compliance
2	Total Hardness	mg/L	ISO 10545-2	150	500	In compliance
3	Calcium	mg/L	ISO 10545-3	75	200	In compliance
4	Magnesium	mg/L	ISO 10545-4	75	300	In compliance
5	Total Dissolved Solids (TDS)	mg/L	ISO 10545-5	150	500	In compliance
6	Chloride	mg/L	ISO 10545-6	10	250	In compliance
7	Total Sulfate	mg/L	ISO 10545-7	10	400	In compliance
8	Total Sulfate as SO4	mg/L	ISO 10545-8	10	400	In compliance
9	Iron	mg/L	ISO 10545-9	0.1	0.3	In compliance
10	Copper	mg/L	ISO 10545-10	0.05	1.0	In compliance
11	Nickel	mg/L	ISO 10545-11	0.05	0.1	In compliance
12	Lead	mg/L	ISO 10545-12	0.05	0.1	In compliance
13	Cadmium	mg/L	ISO 10545-13	0.01	0.01	In compliance
14	Chromium	mg/L	ISO 10545-14	0.05	0.05	In compliance
15	Vanadium	mg/L	ISO 10545-15	0.05	0.05	In compliance
16	Manganese	mg/L	ISO 10545-16	0.05	0.05	In compliance
17	Zinc	mg/L	ISO 10545-17	0.05	0.05	In compliance
18	Fluoride	mg/L	ISO 10545-18	0.05	0.05	In compliance
19	Barium	mg/L	ISO 10545-19	0.05	0.05	In compliance
20	Selenium	mg/L	ISO 10545-20	0.05	0.05	In compliance
21	Strontium	mg/L	ISO 10545-21	0.05	0.05	In compliance
22	Cobalt	mg/L	ISO 10545-22	0.05	0.05	In compliance
23	Molybdenum	mg/L	ISO 10545-23	0.05	0.05	In compliance
24	Antimony	mg/L	ISO 10545-24	0.05	0.05	In compliance
25	Bismuth	mg/L	ISO 10545-25	0.05	0.05	In compliance
26	Thallium	mg/L	ISO 10545-26	0.05	0.05	In compliance
27	Lead	mg/L	ISO 10545-27	0.05	0.05	In compliance
28	Cadmium	mg/L	ISO 10545-28	0.01	0.01	In compliance
29	Chromium	mg/L	ISO 10545-29	0.05	0.05	In compliance
30	Vanadium	mg/L	ISO 10545-30	0.05	0.05	In compliance
31	Nickel	mg/L	ISO 10545-31	0.05	0.05	In compliance
32	Copper	mg/L	ISO 10545-32	0.05	0.05	In compliance
33	Zinc	mg/L	ISO 10545-33	0.05	0.05	In compliance
34	Manganese	mg/L	ISO 10545-34	0.05	0.05	In compliance
35	Iron	mg/L	ISO 10545-35	0.05	0.05	In compliance
36	Fluoride	mg/L	ISO 10545-36	0.05	0.05	In compliance
37	Chloride	mg/L	ISO 10545-37	10	250	In compliance
38	Sulfate	mg/L	ISO 10545-38	10	400	In compliance
39	Total Hardness	mg/L	ISO 10545-39	150	500	In compliance
40	pH	-	ISO 10545-40	7.2	6.5 - 8.5	In compliance

**Remarks:** All parameters are within the permissible limits as per BIS IS 10545-1 to 10545-40. The water is suitable for drinking purposes.

**Signature:**   
**Technical Manager**  
 IEM, Gurgaon, Haryana

Page 2 of 2


**INSTITUTE FOR ENVIRONMENTAL MANAGEMENT**  
Corporate Office: A-8, Main Street, Sector-40, Gurgaon, Haryana, India. Phone: 01292-500000  
 Laboratory: Sector-17/17B, Gurgaon, Haryana, India. Phone: 01292-500000  
 Fax: 01292-500000, 01292-500001, 01292-500002, 01292-500003


### TEST REPORT

**Client:** Government of Punjab, Chandigarh  
**Report No.:** IEM/2025/010  
**Sample No.:** IEM/2025/010/03

**Name and Contact Details of Customer:** Government of Punjab, Chandigarh  
 Plot No. 10, Sector-17B, Chandigarh, India  
 Phone: 0172-2740000, 0172-2740001, 0172-2740002, 0172-2740003  
 Fax: 0172-2740004, 0172-2740005, 0172-2740006, 0172-2740007, 0172-2740008, 0172-2740009, 0172-2740010, 0172-2740011, 0172-2740012, 0172-2740013, 0172-2740014, 0172-2740015, 0172-2740016, 0172-2740017, 0172-2740018, 0172-2740019, 0172-2740020, 0172-2740021, 0172-2740022, 0172-2740023, 0172-2740024, 0172-2740025, 0172-2740026, 0172-2740027, 0172-2740028, 0172-2740029, 0172-2740030, 0172-2740031, 0172-2740032, 0172-2740033, 0172-2740034, 0172-2740035, 0172-2740036, 0172-2740037, 0172-2740038, 0172-2740039, 0172-2740040, 0172-2740041, 0172-2740042, 0172-2740043, 0172-2740044, 0172-2740045, 0172-2740046, 0172-2740047, 0172-2740048, 0172-2740049, 0172-2740050, 0172-2740051, 0172-2740052, 0172-2740053, 0172-2740054, 0172-2740055, 0172-2740056, 0172-2740057, 0172-2740058, 0172-2740059, 0172-2740060, 0172-2740061, 0172-2740062, 0172-2740063, 0172-2740064, 0172-2740065, 0172-2740066, 0172-2740067, 0172-2740068, 0172-2740069, 0172-2740070, 0172-2740071, 0172-2740072, 0172-2740073, 0172-2740074, 0172-2740075, 0172-2740076, 0172-2740077, 0172-2740078, 0172-2740079, 0172-2740080, 0172-2740081, 0172-2740082, 0172-2740083, 0172-2740084, 0172-2740085, 0172-2740086, 0172-2740087, 0172-2740088, 0172-2740089, 0172-2740090, 0172-2740091, 0172-2740092, 0172-2740093, 0172-2740094, 0172-2740095, 0172-2740096, 0172-2740097, 0172-2740098, 0172-2740099, 0172-2740100

**Information of nearest Sewerage Treatment Plant (STP):**  
 Type of Industry: Municipal  
 Discharge Point: Sector-17B, Chandigarh  
 Distance: 500 m

**Sampling Location:** Sector-17B, Chandigarh  
 Date: 10/10/2025  
 Time: 10:00 AM  
 Location of Laboratory: IEM, Gurgaon, Haryana  
 Sample Receipt Date: 11/10/2025

No.	Tested Parameter	Unit	Method No.	Result	Standard	Remarks
1	pH	-	ISO 10545-1	7.2	6.5 - 8.5	In compliance
2	Total Hardness	mg/L				







# Annexure-18

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

S.N	Month	PH	Suspended solids mg/lit.	COD mg/lit.	BOD mg/lit	Oil & Grease mg/lit.
1	October-2025	8.4	33	64	19.5	BDL
2	November-2025	8.1	37	68	17.4	BDL
3	December-2025	8.2	32	60	15.7	BDL
4	January-2026	8.3	29	48	19.5	BDL
5	February-2026	8.0	28	56	14.3	BDL
6	March-2026	7.9	24	48	12.20	BDL
	<b>Min.</b>	7.9	24	48	12.2	BDL
	<b>Max.</b>	8.4	37	68	19.5	BDL
	<b>Avg.</b>	8.2	30.5	57.5	16.3	BDL

### STP Outlet water quality analysis report for the month of October 2025 from NABL/JSPCB approved lab



**INSTITUTE FOR ENVIRONMENTAL MANAGEMENT**  
Corporate office - A-8, Model Heights, Opp. - All India Radio Station, Ratu Road, Ranchi, Jharkhand - 834001  
Laboratory Site - H.No. - A-13, Saket Vihar, Near Subrah Bhawan, Harma Housing Colony,  
Ranchi-834002, Jharkhand, India  
Ph - 842804253, 8427834253, Email - iem7013@gmail.com



#### TEST REPORT

Client Name: <b>HEAR STP PLANT COLTIB DPO</b>		Report Issue Date: <b>11-10-2025</b>		Sample ID: <b>2510RPP01002</b>	
Discipline: <b>Chemical</b>		General Pollution & Environmental		Sub-Group: <b>Waste Water</b>	
Client No./P.O. No.: <b>2540021144037</b>		Email: <b>iem7013@gmail.com</b>		Test Report No.: <b>ISE-541105014W02</b>	
Name and Contact Details of Customer: <b>Surgery Verma (856447745)</b>		District: <b>East Singhbhum</b>		Sample Description: <b>Waste Water (STP)</b>	
Address: <b>Dist. Cement Works Limited, Bokaro Steel City, Bokaro Industrial Area (old), Bokaro Steel City, Bokaro-833013 (Jharkhand) India</b>		Phone No: <b>75(A-70P), Bokaro Industrial Area (old), Bokaro Steel City, Bokaro-833013 (Jharkhand) India</b>		Charter No./P.No. Date: <b>05-11-2024</b>	
Type of Industry: <b>Common</b>		Condition of Samples: <b>In For Test</b>		Sampling Date: <b>08-10-2025</b>	
Sampling Protocol: <b>IS 17014 (Part-1) 2023</b>		Method No.:		Results:	
Reference: <b>ISO 15020 (Part-1) 2023</b>		Method No.:		Results:	
Sampling Location: <b>HEAR STP PLANT COLTIB DPO</b>		Method No.:		Results:	
Field Meteorological Information: <b>A. Temp: 28.0 B. RH: 65.0 C. Wind: 1.0 D. Humidity: 65.0</b>		Method No.:		Results:	
Location of performance of the Laboratory Activity: <b>ISE Laboratory, Ranchi</b>		Method No.:		Results:	
Sample Receipt Date: <b>08-10-2025</b>		Method No.:		Results:	
Yeast Started: <b>08-10-2025</b>		Method No.:		Results:	
Yeast Ended: <b>11-10-2025</b>		Method No.:		Results:	

Sl. No.	Tested Parameters	Unit	Method No.	Norms**	Results
1	pH value at 25°C		IS 1023 (Part-11)	6.5 - 9.0	8.4
2	Total suspended Solids (TSS)	mg/l	IS 1023 (Part-17)	100	33
3	Biological Oxygen Demand (BOD5)	mg/l	IS 1023 (Part-24)	20	19.5
4	Chemical Oxygen Demand (COD)	mg/l	IS 1023 (Part-32)	250	64
5	Oil & Grease	mg/l	IS 1023 (Part-39)	10	BDL (M20, 4.0)

**For: Condition of Lab:** Laboratory (C) maintaining Temperature 25±2°C and Relative Humidity 65±5% in all testing room as per IS 15020 (Part-1) 2023.

**Abbreviation:** BOD<sub>5</sub>: 5-Days Biological Oxygen Demand, BOD<sub>u</sub>: Ultimate BOD, BOD<sub>u</sub>: Below Detection Limit

**Norms\*\* as Specified:** As per the Environmental Protection Act - 1986

**Remarks:** Sample Storage with prescribed specification.

**Signature & Interpretation:** Not Provided

**Tested by:** Anshu Prasad

**Sample drawn by:** Anshu Prasad

**Disclaimer:**

- \* The results relate only to the item tested, authorized or accepted.
- \*\* Addition to, deviation, or exclusion from the method is not practiced if not mentioned.
- \* Results from external sites (www.nabl.gov.in) used if not available.

**Specific Instruction Note:**

1. The laboratory should remain ready for samples at 9:00 AM.
2. The report shall not be considered valid if not signed by the lab.
3. The report is valid only for the date and time of the test.
4. Any retest shall be done within 7 days of the test.
5. Validity of results for retest shall be determined by the lab.
6. In case of sample retest, there shall be no charge.

**On the basis of Quality Control and Test data as per the instructions given, the report is issued by the Director of the Department.**

Reviewed by: 

**S. C. Jais**  
Technical Manager / Director

— End of Report —

Page 1 of 3

STP Outlet water quality analysis report for the month of March 2026 from NABL/JSPCB approved lab



**INSTITUTE FOR ENVIRONMENTAL MANAGEMENT**  
 Corporate office - A-8, Modi Heights, Opp.-All India Radio Station, Ratu Road, Ranchi, Jharkhand - 834003  
 Laboratory Site - H.No. - A-13, Saket Vihar, Near Sohrai Bazar, Harma Housing Colony,  
 Ranchi-834002, Jharkhand, India  
 Ph - 8467804253, 8467806751, Email - iem7013@rediffmail.com



**TEST REPORT**

U/E No.	T C F A I S 3 2 3 0 0 0 0 0 0 5 8 2																
Discipline: Chemical	Group: Pollution & Environment										Sub-Group: Waste Water						
Report Issue Date: 14-03-2026	Test Report No.: RN-24105004/W/02										Sample ID: 260311PE02002						
Sample ID: 260311PE02002	Sample Description: Waste Water (STP)										Challan No./P.O. No.: 454802225/227						
Challan No./P.O. No.: 454802225/227	Challan No./ P.No. Date: 10-12-2025										Name and Contact Details of Customer: Dalmia Cement Bharat Limited, Plot No IV/A-2(P), Bokaro Industrial Area Balidih Bokaro Steel City, Bokaro-827014 Jharkhand India Sanjeev Verma, (9264447445) Email Id:- verma.sanjeev2@dalmiacement.com						
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 Protocol: IS 17614 (Part-1):2025	Sampling Date: 11-03-2026										Protocol: CPCB Guideline & IS Method 3025 Series						
Protocol: CPCB Guideline & IS Method 3025 Series	Sampling Location: NEAR STP PLANT, (OUTLET)																
Sampling Location: NEAR 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 - 9.0	7.9
2	Total Suspended Solids (TSS)	mg/l	IS 3025 (Part-17)	100	24
3	Biological Oxygen Demand (BOD)	mg/l	IS 3025 (Part-44)	30	12.2
4	Chemical Oxygen Demand (COD)	mg/l	IS 3025 (Part-38)	250	48
5	Oil & Grease	mg/l	IS 3025 (Part-39)	10	BDL (MDL 4.0)

Env. Condition of Lab.	Laboratory is maintaining Temperature 27± 2°C and Relative Humidity 65± 5 % in all testing area as per IS 196:1966(C)
Abbreviation	MDL: Minimum Detection Limit; BDL: Below Detection Limit
Norms** is Specified	As per the Environmental (Protection) Act - 1986
Remark	Sample Comply with prescribed specification
Opinion & Interpretation	Not Practiced.
Tested by	Shubham Prashp
Sample Drawn by	Aniket Mandu & Teem
Disclaimers	<ul style="list-style-type: none"> <li>The results relate only to the item tested, calibrated or sampled.</li> <li>Additions, deviations, or exclusions from the method is not practiced if not mentioned.</li> <li>Results from external providers are not used if not specified.</li> </ul>

<p><b>Specific Contractual Notes -</b></p> <ol style="list-style-type: none"> <li>The institute accepts responsibility for content of this report.</li> <li>This report shall not be reproduced except in full, without approval of the IEM.</li> <li>This report is intended for only guidance and not for legal purpose or for advertisement.</li> <li>Any complaint about this report should be communicated in writing within 7 days of its issue.</li> <li>Your liability of institute for Environmental Management will be limited to involved amount only.</li> <li>In case of 'hardcopy' complaints, please send an email at <a href="mailto:iem7013@rediffmail.com">iem7013@rediffmail.com</a></li> </ol> <p>On the basis of Quality Checked and Technical data verified by the Authorized signatory, the report is issued by the Director of the Organization.</p>	Reviewed by  (Anandksha Soorabh) Dy Technical Manager	Authorized Signatory  (Dr. S. C. Jain) Director
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--- End of Report ---

**DALMIA CEMENT (BHARAT) LIMITED**

Garland drainage constructed all around the plant for the collection of surface run of water.  
Pit constructed



**Rain water collection settling pit**

**DALMIA CEMENT BHARAT LIMITED, BOKARO**

**RAIN WATER HARVESTING SYSTEM**

Roof top Rain Water Harvesting System have installed in CCR, Raw Material Hopper Building, Cement Mill, Bag House & Packing Plant Building in our plant area. Rain water collected from roof top through gutter and carrying by pipe lines in recharge tranches. Recharge Pits are also connected with recharge trench. 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. Rain water easily percolated and recharges ground water level. Inspection of Rain water Harvesting System has done by Regional Officer, JSPCB, and Ranchi on 30.05.2013 and approved from Ground Water Board, Ranchi vide letter no. GWD 320/ Ranchi Dated:06.09.2013



**RAINWATER HARVESTING SYSTEM DISPLAY INSIDE THE PLANT**



Rain water harvesting recharge pit constructed in railway siding & Cement mill area



Rain water harvesting recharge pit near FH3 Hostel & Rain water recharge trench In-front of CCR main building



Rainwater harvesting recharge trench near bag house and near cement mill 2 area



Rainwater harvesting recharge trench near CCR building & near E type quarter

Wells renovation done by Dalmia Cement (Bharat) Limited near surrounding village area



Pond renovation near surrounding village area by DCBL Bokaro to conserve the rain water

DALMIA CEMENT BHARAT LIMITED, BOKARO

Water Flow meter installed at the main gate of the factory



**DALMIA CEMENT BHARAT LIMITED, BOKARO**

Noise level report from October 2025 to March 2026

<b>Near Main Gate</b>		
<b>Month</b>	<b>Near Main Gate</b>	
	<b>Day Time</b>	<b>Night Time</b>
	<b>dB(A)</b>	<b>dB(A)</b>
October-2025	65.5	52.6
November-2025	67.3	54.4
December-2025	68.2	55.6
January-2026	70.2	57.0
February-2026	71.2	58.3
March-2026	69.3	59.1
<b>Min.</b>	<b>65.5</b>	<b>52.6</b>
<b>Max.</b>	<b>71.2</b>	<b>59.1</b>
<b>Avg.</b>	<b>68.55</b>	<b>56.1</b>

<b>FH-3 Building</b>		
<b>Month</b>	<b>FH-3 Building</b>	
	<b>Day Time</b>	<b>Night Time</b>
	<b>dB(A)</b>	<b>dB(A)</b>
October-2025	45.9	36.9
November-2025	47.7	38.7
December-2025	48.6	39.9
January-2026	49.1	39.8
February-2026	52.6	41.9
March-2026	51.7	39.9
<b>Min.</b>	<b>45.9</b>	<b>36.9</b>
<b>Max.</b>	<b>52.6</b>	<b>41.9</b>
<b>Avg.</b>	<b>49.3</b>	<b>39.5</b>

<b>Month</b>	<b>Near Wagon Tippler</b>	
	<b>Day Time</b>	<b>Night Time</b>
	<b>dB(A)</b>	<b>dB(A)</b>
October-2025	58.8	53.7
November-2025	60.6	55.5
December-2025	61.8	54.4
January-2026	65.3	62.5
February-2026	66.1	64.5
March-2026	70.2	63.7
<b>Min.</b>	<b>58.8</b>	<b>53.7</b>
<b>Max.</b>	<b>70.2</b>	<b>64.5</b>
<b>Avg.</b>	<b>64.0</b>	<b>59.1</b>

<b>Month</b>	<b>Near Fabrication Yard</b>	
	<b>Day Time</b>	<b>Night Time</b>
	<b>dB(A)</b>	<b>dB(A)</b>
October-2025	64.1	49.8
November-2025	65.9	51.6
December-2025	67.1	52.5
January-2026	66.5	63.2
February-2026	68.9	52.7
March-2026	66.1	55.6
<b>Min.</b>	<b>64.1</b>	<b>49.8</b>
<b>Max.</b>	<b>68.9</b>	<b>63.2</b>
<b>Avg.</b>	<b>66.5</b>	<b>54.8</b>





## DALMIA CEMENT BHARAT LIMITED, BOKARO

Solar lights installed at different location of the plant



CCR BUILDING



ADMIN BUILDING



CIVIL OFFICE



ENVIRONMENT OFFICE



NEAR TOILET

**DALMIA CEMENT (BHARAT) LIMITED, BOKARO****TREE PLANTATION DETAILS**

Total greenbelt development area is 23.25 acres (more than 33 %) of total land 69.19 Acres to improve the aesthetic value and to arrest dust and also to mitigate noise pollution.

**YEAR WISE TREE PLANTATION DETAILS GIVEN AS FOLLOWS**

SL. No	Year	Number of plants	Area (in Acres)
1	1st (2011-2012)	5000	5
2	2nd (2012-2013)	2030	4
3	3rd (2013-2014)	2820	3
4	4th (2014-2015)	7620	5
5	5th (2015-2016)	5100	4
6	6th (2016-2017)	1500	1
7	7th (2017-2018)	500	0.55
8	8th (2018-2019)	69	0.3
9	9th (2019-2020)	100	0.4
10	10th (2020-2021)	150	Tree Plantation done in the vacant places.
11	11 <sup>th</sup> (2021-2022)	500	
12	12 <sup>th</sup> (2022-2023)	350	
13	13 <sup>th</sup> (2023-2024)	400	
14	14 <sup>th</sup> (2024-2025)	225	
15	15 <sup>th</sup> (2025-2026)	250	
	<b>Total</b>	<b>26614</b>	<b>23.25</b>

<b>S.N</b>	<b>Year</b>	<b>Name of Species tree planted</b>
1	2011-2012	Gulmohar,Amaltash,Neem,Mihigini,shisham,Ashoka,Teak, Mango,Amala, Shiv Babool, Chatni
2	2012-2013	Gulmohar,Amaltash,Neem,Mihigini,shisham,Ashoka,Teak,Mango, Amala
3	2013-2014	Ashoka,Chatni,Gulmohar,Amaltash,Neem,Mihigini, Shisham
4	2014-2015	Ashoka,Chatni,Gulmohar,Amaltash,Neem,Mihigini, Shisham
5	2015-2016	Chatni,Gulmohar,Neem,Mehegani,Shisham,Pipal,Teak,
6	2016-2017	Gulmohar,Chatni,Neem,Guava,Shiv Baboo,Mango,Jamun
7	2017-2018	Chatni,Gulmoha,Amaltash,Neem,shisham,Guava,Pipal
8	2018-2019	Chatni,Gulmohar,Neem,Mihigini,Guava,Mango,Amala,Neem
9	2019-2020	Chatni,Mihigini,Botal Pam,Mango,Amala,Lemon,Jamu
10	2020-2021	Chatni,Mihigini,,Mango,Kaaju.
11	2021-2022	Chatni,Mihigini,,Mango,Kaaju,Amala, Neem, Gulmohar
12	2022-2023	Chatni,Mihigini,,Mango, Neem, Gulmohar
13	2023-2024	Chatni,Mihigini,,Mango, Neem, Gulmohar
14	2024-2025	Chatni,Gulmohar,Neem,Mihigini,Guava,Mango,Amala,Neem
15	2025-2026	Chatni, Mihigini, Neem, Gulmohar, Mango



**Greenbelt pics at DCBL Bokaro**



**Greenbelt pics at DCBL plant Bokaro**

**Greenbelt pics at DCBL plant Bokaro**



**Greenbelt pics at DCBL plant colony area**

**Greenbelt pics at DCBL plant colony area**



**Tree plantation done railway siding**

**DALMIA CEMENT (BHARAT) LIMITED, BOKARO****Carbon Emission Reduction program**

The MoEFCC Gazette Notification dated 08<sup>th</sup> October 2025 has set carbon-emission reduction targets for 186 cement plants, including Dalmia Cement (Bharat) Limited, Bokaro. Our baseline GHG intensity for FY 2023–24 is 0.0217 tCO<sub>2</sub>e/tonne of major equivalent product, with compliance targets of 0.0215 for FY 2025–26 and 0.0210 for FY 2026–27. We have accordingly initiated multiple process-level interventions to reduce emissions.

DCBL Bokaro is a 4.5 MTPA (Unit-1) cement grinding unit in Bokaro, Jharkhand. The plant consumes a small quantity of coal in the HAG for slag drying and electricity for plant operations and material movement.

**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

GHG Reduction Targets (as per MoEFCC Gazette letter vide dated 08.10.2025)

Categories	UOM	Baseline (2023-24)	Target (2025-26)	Target (2026-27)
Scope-1 + 2	tCO <sub>2</sub> e/Tonne of major equivalent product	0.0217	0.0215	0.0210

**Mitigation action 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 reduced from previous.
- 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

- Raw material slag transported through covered belt conveyers from SAIL.

## **2. 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 has 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
- Two numbers e-vehicle purchased for internal movement in plant.
- Regular tree plantation and green-belt development done 33% of total Land area.
- Hiring of CNG vehicles for going outside of the plant.

## **5. Regular GHG Assessment and Inventory Strengthening**

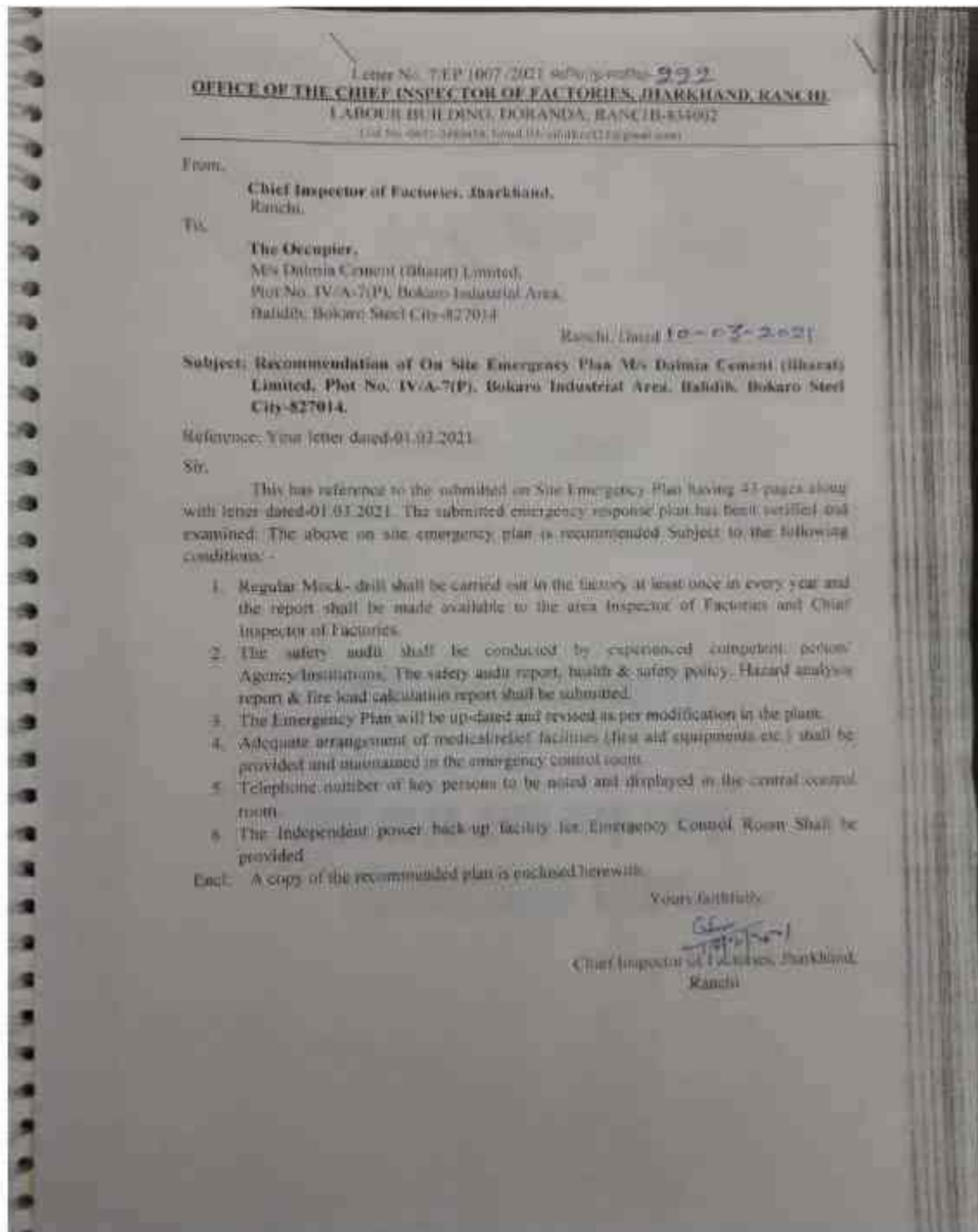
We conduct annual, third-party–assured GHG inventories to identify reduction opportunities from major emission sources and continuously track performance.

## **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

On Site Emergency plan approved from Chief Inspector of Factories Jharkhand



Letter No. T/EP/1007/2021 *292*  
**OFFICE OF THE CHIEF INSPECTOR OF FACTORIES, JHARKHAND, RANCHI.**  
LABOUR BUILDING, DORANDA, RANCHI-834002  
(Tel No: 0661-246474, Fax: 0661-246472, Email: chief@icf.jh.gov.in)

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

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

*Ranchi, dated 10-03-2021*

**Subject: Recommendation of On Site Emergency Plan M/s Dalmia Cement (Bharat) Limited, Plot No. IV/A-7(P), Bokaro Industrial Area, Bardih, Bokaro Steel City-827014.**

Reference: Your letter dated-01.02.2021.

Sr.

This has reference to the submitted on Site Emergency Plan having 43 pages along with letter dated-01.02.2021. 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 Inspections, 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

**Dalmia Cement (Bharat) Limited, Bokaro****Details of PPEs issued for the period of October 2025 to March 2026**

<b>Description of PPEs</b>	<b>PPEs Issued</b>
<b>PPEs issued for the period of October 2025 to March 2026.</b>	
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	Abhijit 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	Kamlendera 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 Rakhan 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	Jugraj Gocher	CEM Manufacturing_Mechanical	Junior Tradesman	9/20/2025	9/20/2026	Cut mark on Rt Eyebrow
23	10001671	Tauzej 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	Hridyanand 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	Sujharshu Shikhar	CEM Manufacturing_Mechanical	Senior Tradesman	9/19/2025	9/19/2026	Mole on RT Ear
33	10001683	Kailash 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_Operations	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	Vir 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	Nilamber 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	Bhendra 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	Nirvanjan 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	Chandrashekhar Banerjee	CEM Manufacturing_Technical Cell	Tradesman	9/19/2025	9/19/2026	Cut Mark On Forehead
81	10001733	Jayanti Prasad Patel	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	Akhillesh 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	Anil Kumar Sinha	CEM Manufacturing_Electrical	Junior Tradesman	9/20/2025	9/20/2026	Mole on RT Face
92	10001748	Praiveen Kumar Tiwari	CEM Infrastructure & Facilities_Operations	Tradesman	9/19/2025	9/19/2026	Cut mark on nose
93	10001749	Mi Tauqeer Azam	CEM Manufacturing_Production & Process	Tradesman	9/20/2025	9/20/2026	Mole on LT Eyebrow
94	10001750	Mohammad Mustkeem	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	Sarju 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	Bummark 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 Barman	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 Hansola	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. Kalimuddin	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	UMV Driver	9/20/2025	9/20/2026	Cut mark on RT Hand

## Annexure-29

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

### **Dalmia Cement (Bharat) Limited, Bokaro**

<b>A Corporate Environment Responsibility Report</b>				
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	<b>29.21</b>
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>B CSR Report</b>				
S.N	CSR Details of surrounding Village	Village name	Rs.in Lakhs	
1	Lah Bangal Making Training	Tand Balidih	65000	<b>27.42</b>
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	
<b>Total Expenses in CER and CSR for the period of October 2025 to March 2026</b>			<b>Rs.56.63/-</b>	

**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



## Teak Tree plantation





**Installation of LED Light and construction of toilets**



**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 Diksha

## Well Renovation



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



## Celebration of Sewa Diswas



## **CORPORATE ENVIRONMENT POLICY**

### **DALMIA BHARAT LIMITED**

**Regd. Office: Dalmiapuram – 621651, Dist: Tiruchirappalli, Tamil Nadu**

**[CIN: L40109TN2006PLC058818]**

**Tel. No.: (04329) 235132 Website: www.dalmiabhl.com; E-mail: invhelp1@dalmiabharat.com**

#### **BUSINESS RESPONSIBILITY POLICY**

*[Adopted by the Board of Directors at its meeting held on 17-8-2016]*

#### **Preface**

Securities and Exchange Board of India (Listing Obligations and Disclosure Requirements) Regulations, 2015, vide its clause 34(2)(f), mandates that the Annual Report of top five hundred listed entities based on market capitalization (calculated as on March 31 of every financial year) shall contain a Business Responsibility Report describing the initiatives taken by the Company from an environmental, social and governance perspective, in the format as specified by the SEBI from time to time.

SEBI vide Circular No. CIR/CFD/CMD/10/2015 dated November 04, 2015 has prescribed nine key principles to assess the fulfilment of listed entities and a description of the core elements under these principles. This Policy is accordingly framed to address the nine principles prescribed by SEBI in the said circular.

#### **Stakeholders**

The relevant stakeholders are Shareholders, Security Holders, Subsidiary Companies, Joint Venture Companies, Employees, Suppliers, Distributors, Public, Customers and Society at large.

#### **Principle 1 - Ethics, Transparency and Accountability**

Dalmia Bharat Limited (the "Company") is committed to ensure adherence, while conducting in all its sphere of activities and while dealing with both the internal and external stakeholder, to the following:

- Promote values as well as demonstrate commitment to uphold its ethics principles wherever operate in conjunction with business partners.
- Not do or give or receive, directly or indirectly for business or financial gain, any financial inducement or improper advantage, or engage in any form of unethical conduct or exercise undue influence over any other third party.
- Not indulge in giving extravagant, lavish or uncustomary gifts to Authorities which may obligate or inappropriately influence the recipient.
- Ensure vouch for completeness, validity and accuracy of the records, financial or otherwise and the validity of all information. Systematically identify and engage in an effective and transparent manner with all the stakeholders to create sustainable, long term value for our stakeholders.
- Take the contractual obligations seriously and ensure to pay suppliers, employees and other entitled to receive money according to agreed contracts/terms.
- Not to engage in or promote practices which are corrupt and anti-competitive and comply with the competition laws.



- Encourage all associated parties to comply with these principles and avoid complicity with anyone that violates above principles.
- Comply with all the laws and regulations as applicable.

#### Principle 2 - Sustainability

The Company is committed to offer goods which are safe and have a positive contribution on environment and society. To achieve this objective, we are committed to:

- Adopt most energy efficient technologies in manufacturing process, improve the energy efficiency of equipment.
- Make continuous effort to increase the use of renewable energy and fuels, co-processing wastes to reduce our greenhouse gases.
- Invest in research and development.
- Make continuous efforts to reduce water intensity and fresh water usage by increased use of harvested and recycled water in our operations.
- Assess biodiversity quality in all our extraction sites and strive to create positive impact.
- Continuously strive to improve the quality of products, processes and services.
- Encourage recognition and respect for rights of owners of intellectual property.
- Promote free competition and freedom of choice to consumers.
- Identify stakeholders to understand their concerns.
- Implement suitable grievance handling mechanism, wherever required.

#### Principle 3 - Wellbeing of Employees

The Company being a strong value driven, people oriented and accountable organization is committed to offer the best working environment to all its employees. To achieve this objective, we are committed to:

- Maintain good working conditions promote a harmonious and productive atmosphere in the workplace and provide fair and equal employment opportunity for all employees to maximize their career growth with enhanced skills and to create a favourable environment to work as an effective team.
- Ensure no harm anywhere to any one in our entire operations as part of our commitment towards health and safety of all people involved.
- We shall provide Safe and secure workplace free from harassment, discrimination or other intimidating behaviors of all kinds and shall follow the procedures, principles and rules prescribed by the Government under Sexual Harassment of Women at Workplace (Prevention, Prohibition and Redressal) Act, 2013 and rules made thereunder.
- We shall ensure equal opportunities and fair treatment to all employees including eligible applicants for employment in the Company irrespective of their caste, creed, religion, gender, marital status, age starting from the process of employee's acquisition till grant of all terminal benefits and will not tolerate discrimination of any kind. We shall recruit, retain and develop people based on suitability of role and the opportunity for personal and professional growth.
- We shall promote well being and work life balance of people to let them live a happy life and honour individuality of every employee.
- We shall not engage any person to work who is unwilling or below the age of 18 years.
- We shall respect the right of freedom of association, participation and collective bargaining.





**ENVIRONMENT MANAGEMENT CELL**

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 (PM<sub>10</sub>, PM<sub>2.5</sub>, 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**

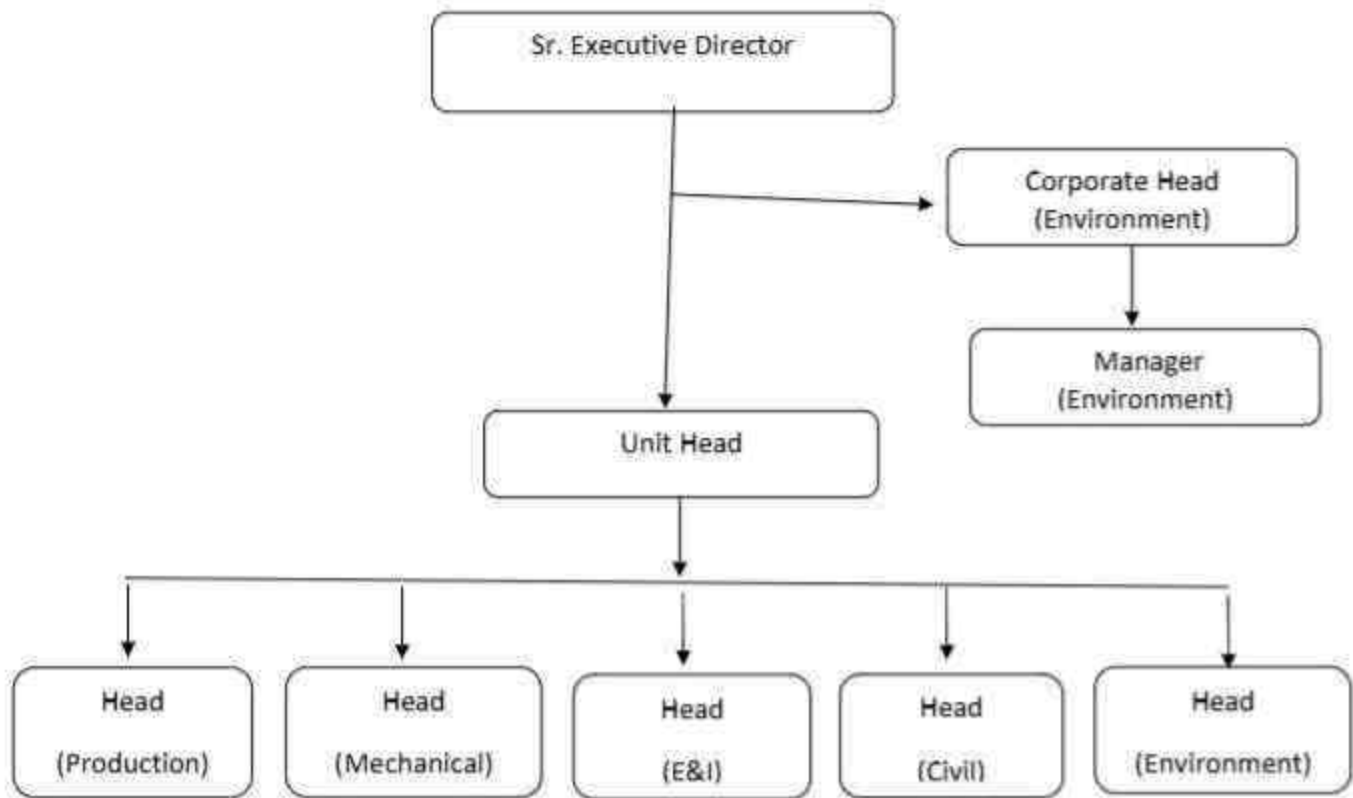
S. N.	Name of Equipment's	No. of Equipment's
<b>A. Ambient Air Quality Monitoring</b>		
1.	Respirable Dust Sampler (RDS) PM-10	04
2.	Respirable Dust Sampler PM10-2.5	04
3.	Portable DG Sets	01
4.	Continuous Ambient Air Monitoring System (CAAQMS)	02
<b>B. Stack Monitoring</b>		
5.	Stack Monitoring Kit	01
6.	Continuous Stack Emission System (CEMS)	01
<b>C. Workplace Monitoring</b>		
8.	Sound Level Meter	01
9.	Personal Sampler APM 800	01
<b>D. Water Quality Monitoring</b>		
10.	Spectrophotometer-Model DR/2700 (Hach-USA)	01
11.	Turbidity Meter	01

<b>E.</b>	<b>Others</b>	
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



## Dalmia Cement (Bharat) Limited, Bokaro

## Capital cost investment on Environment protection up to March 2026

<b>M/S DALMIA CEMENT (BHARAT) LIMITED, BOKARO</b>				
Plot No. IV/A-7(P), Bokaro Industrial Area, Balidih, Bokaro Steel City, Jharkhand -827014				
<b>CAPITAL COST INVESTMENT ON ENVIRONMENT PROTECTION AT DCBL BOKARO UP TO March 2026</b>				
<b>S.N</b>	<b>PARTICULARS</b>	<b>Asset no</b>	<b>Investment in Rs.</b>	<b>Investment in Crores</b>
<b>1</b>	<b>INVESTMENT ON AIR POLLUTION CONTROL MEASURES</b>			
a	Bag House cement mill	5500000007	193983042.2	<b>29.05</b>
b	Bag house fan	5500000014	13972406.4	
c	Bag house for cement mill	5500000037	9901023.02	
d	Bag house fan	5500000046	185484.52	
e	Sprs Bag house fan -mill -1	5500000016	6300867.1	
f	Sprs Bag house fan -mill -2	5500000017	6300867.53	
g	Bag filter from silo to packing plant EEL India limited		21000000	
h	Bag filter clair Packing plant area		4800000	
i	Bag filter at Wagon Tippler		28150000	
j	Bag filter Dry fly ash silo Top storage bin		900000	
h	Bag filter Dry fly ash silo Top storage bin Sep-		1300000	
i	Packer 4 Bag filter		3700000	
			<b>290493690.8</b>	
<b>2</b>	<b>INVESTMENT ON FUGITIVE DUST EMISSION CONTROL</b>			
a	Construction of Tarpaulin shed near packing plant	5200000052	1741749.73	<b>8.64</b>
f	Road Swapping machine	5900000085	128981	
g	Water spray tanker	5060000016	100000	
h	Delexo Road Swapping Machine	5500000172	2452009.2	
l	Steel Silo for storage of PCC	5500000185	28115894.14	
J	Plant Roads construction	5200000010	53848342.83	
			<b>86386976.9</b>	
<b>3</b>	<b>INVESTMENT IN WATER POLLUTION CONTROL MEASURES</b>			
a	Rain water Harvesting system implemented	5200000034	56547.38	<b>0.78</b>
b	Sewer line connected to plant toilet to STP	5200000054	958795.98	
c	Bio Toilet at Wagon Tippler & Railway penal Yard	5200000055	99308.58	
d	Construction of Sewage treatment Plant	5200000067	4772895.03	
e	Water treatment plant	5040000011	133559.51	
f	Toilets & Bathroom for Labour Camp	5200000056	1074911.5	
g	Water treatment plant	5040000013	682090.06	
			<b>7778108.04</b>	

<b>4</b>	<b>ENVIRONMENT POLLUTION MONITORING EQUIPMENT</b>			
1	CAAQM -SO2 & NOx Analyzer	5500000068	1308596	<b>0.61</b>
2	Laboratory balance	5500000074	19244	
3	Opacity meter From Chemtrols industries LTD	5900000033	88889.55	
4	Opacity meter From Chemtrols industries LTD	5900000034	88889.55	
5	Data connectivity to CPCB Server	5800000003	188100	
6	Stack monitoring kit from form forebes marshal	5010000067	10596.16	
7	Incubator	5500000029	13000.32	
8	On line CAAQM station Environment SA	5500000066	2522852.76	
9	Up gradation Software of CAAQMS	5800000003	490800	
10	Construction of 2.no CAAQMS Room	5200000035	454879	
11	Respirable Dust Sampler 460 BL PM -10 ,4no	Environment Lab	280000	
12	Respirable Dust Sampler 460 BL PM- 2.5 ,4no	Environment Lab	300000	
13	Vayubodhan Stack monitoring Kit VSS1	Environment Lab	75000	
14	Spectrophotomer	Environment Lab	280000	
			<b>6120847.34</b>	
	<b>Total Capital Cost Investment on Environment measures up to March 2026</b>			<b>39.08</b>

**RECURRING COST EXPENDITURE ON ENVIRONMENT PROTECTION ACTIVITIES FROM OCTOBER 2025 TO MARCH 2026**

<b>Recurring cost expenditure on Environment protection activities from October 2025 to March 2026</b>		
<b>S.N</b>	<b>Discription</b>	<b>Rs.Lakhs</b>
1	Cost on Schedule maintenance of Air Pollution control equipments	0.92
	Bags replacement with new bags, Bags cleaning, De dusting line checking, cleaning and repairing work. Bag filters fan maintenance etc)	
2	Power consumption in Pollution control equipment (Bag House & Bag Filter) 9669783 KWH X Rs 5.96	576.31
2	Third Party Environmental Monitoring & Analysis	1.5
3	AMC of CEMS Data transmission to JSPCB & CPCB	0.17
4	AMC of CAAQMS Maintenance, Servicing and Calibration,	0.64
5	AMC of CAAQMS Data transmission to JSPCB & CPCB	0.5
6	Calibration of Pollution Monitoring Equipment's (CEMS)	1.5
7	Calibration of Pollution monitoring instrument (RDS & Stack VSSI, Noise level meter)	0.15
8	Air Pollution Monitoring Accessories'	2.5
	Pump maintenance kit & PM-10 & 2.5 Filter paper CAAQMS New Software installation	
10	STP Operation & Maintenance	4.0
11	Road Sweeping Machine Operation & Maintenance	1.6
12	Disposal of Bio medical waste	0.09
13	Fuel consumption and manpower cost of water sprinkling tanker	1.4
14	Green Belt Development	7.4
<b>TOTAL RECURRING COST EXPENDITURE FROM OCTOBER 2025 TO MARCH 2026 in (Rs) Lakhs</b>		<b>598.68</b>

## Dalmia Cement (Bharat) Limited, Bokaro

### Half Yearly Environment Internal audit report for the period of October2025- March-2026

Date: 12.02.2026 (2.30 PM -5.30 PM)

Following below members present in Environment Audit:

1. Sunil Kumar Bhusari (Unit Head)
2. Arvind Kumar: (Head Mechanical)
3. LR Patel: (Head E&I)
4. Drigpal Singh: (Asst. Manager Quality)
5. Sagar Sharma: Head (Safety)
6. Sohan Lal (Head Civil)
7. Shubham (Unit Head Office)
8. 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.	Review status of Statutory compliance - E-Waste Management	Complied. Timely submitted E-Waste return to JSPCB Ranchi and Dhanbad.	Complied
3.	Statutory compliance - Hazardous waste management	Complied. Timely submitted Hazardous waste return Form-IV JSPCB 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	Complied. Timely submitted Hazardous waste return Form-IV JSPCB Ranchi & Dhanbad.	Complied

	Management		
5	Checked On Line CEMS & CAAQMS data at JSPCB & CPCB Server	Complied, On line CEMS & CAAQMS Data continuous transmitted to JSPCB & CPCB server and emission data maintained within the norms.	Complied
6	Checked Calibration certificate record of Pollution monitoring equipment.	Complied. On line CEMS & CAAQMS instrument calibrated with in time.	Complied
7	On Line monitoring data display at factory main gate.	Complied. Online Environment monitoring data displayed at main gate.	Complied.
8	Checked Third party Environment monitoring report.	Complied, third party Environment monitoring report done on quarterly basis and all Environment monitoring data available in Environment Department.	Complied.
9	Checked Drinking water quality	Complied, drinking water quality regularly checked on monthly basis all parameter with in the norms.	Complied.
10	Checked status validity of CTO and HWA.	Complied. within time limit	Complied.
11	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
12	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
13	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
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.	Work is under progress
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 150 no's

			trees planted in monsoon season
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

# Third Party Environment Audit Report

Final Report – March, 2025

## ENVIRONMENTAL COMPLIANCE AUDIT REPORT

FOR



**DALMIA CEMENT (BHARAT) LIMITED  
(JHARKHAND CEMENT WORKS)**

AT

**PLOT: IV/A -7(P), BOKARO INDUSTRIAL AREA  
PO – BALIDIH, BOKARO JHARKHAND-827014**



Shot on OnePlus  
By Mithunika

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 Dalmin Cement Bharar Limited, located at Plot No. IV/A-7(P) Bokaro Industrial Area, Halidih, Bokaro Steel City (827014), 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:**




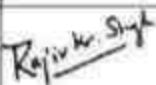
Name: Ms. Shreya Sonal

(Assistant General Manager)

Signature: 

Period of Involvement: March 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.	March 2025 to till date	
2.	Ms. Shreya Sonal	Development of Audit Findings and Compliance Report. Preparation of Compliance Summary for Audit Requirements	March 2025 to till date	
3.	Mr. Abhigyan Rohan	Evidence gathering through documents and photographs at site	March 2025 to till date	
4.	Mr. Rajiv Kumar Singh	Evidence gathering through documents and photographs at site	March 2025 to till date	

5.	Ms. Akanksha Suurabh	Coordination and Assistance in Report Preparation.	March 2025 to till date	<i>Akanksha</i>
6.	Ms. Meher Fatmi	Coordination and Assistance in Report Preparation.	March 2025 to till date	<i>Meher</i>

**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 **Dalmia Cement Bharat Limited, located at Plot No. IV/A-7(P) Bokaro Industrial Area, Balidih, Bokaro Steel City (827014), 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:

*Seema Jain*



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 Dalmia Cement Bharat Limited, located at Plot No. IV/A-7(P) Bokaro Industrial Area, Balidih, Bokaro Steel City (827014), 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 **21 March 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.
-

*Final Environmental Compliance Audit Report for Dalmia Cement (Bharat) Limited  
(Jharkhand Cement Works), Bokaro, Jharkhand (Line 1)*

- 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:**

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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 Dalmia Cement Bharat Limited.

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

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**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 **21<sup>st</sup> March 2025** with the 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	NUP 3.70 MTPA to 4.5 MTPA	JSPCB Reference no B-19/98, Dated 22.11.2021
2	Environment Clearance (EC) 3.7 MTPA	EC/SEIAA/2018-2019/2138/2019/474, Dated-23.09.2019
3	Environment Clearance (EC) 3.0 MTPA	EC/EC/SEIAA/2016-2017/1997/2017/295 Dated-08-12-2018
4	Environment Clearance (EC) Corrigendum	SEIAA Letter no. 85 Dated 14.02.2019
5	Transfer of EC from Dalmia Cement East Limited to Dalmia Cement (Bharat) Limited 2.1 MTPA to 3.0 MTPA.	SEIAA Letter no.273, Ranchi dated 17.06.2019
6	Environment Clearance 2.1 MTPA.	F.No.J-11011/823/2008-IA II (I) MoEF (IA Division) New Delhi Dated 1 <sup>st</sup> January 2009
7	Environment Clearance 2.1 MTPA.	F. No.J-11011/823/2008-IA II (I) MoEF (IA Division) New Delhi Dated 13 <sup>th</sup> July 2009
8	Amendment of Environment Clearance 2.1 MTPA.	F.No.J-11011/823/2008-IA II (I) MoEF (IA Division) New Delhi Dated 18 April 2012

Sl. No.	Documents	Letter no. & Dated	Validity
1	Consent for Establishment for 3.7 MTPA to 4.5 MTPA	JSPCB/HO/RNC/CTE-11785214/2022/96, Dated 6-08-2022	Six months from issue date
2	Consent for Establishment for 3.0 MTPA to 3.70 MTPA	JSPCB/HO/RNC/CTE-6897145/2020/11, Dated 07.01.2020	Six months from issue date
3	Consent for Establishment for 2.10 MTPA to 3.0 MTPA	JSPCB/HO/RNC/CTE-2200192/2019/52, Dated 13-01-2019	Six months from issue date
4	Consent for Establishment for 2.10 MTPA	LN-93 Ranchi, Dated 19.10.2009	Six months from issue date
5	Renewal of Consent to operate 3.70 to 4.50 MTPA (PSC/ PCC/PIC) under Air & Water Act	JSPCB/HO/RNC/CTO-14970501/2023/503, Dated 15.03.2023	31.03.2027

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6	Consent to operate 3.70 to 4.50 MTPA (PSC/ PCC/PPC) under Air & Water Act	JSPCB/HO/RNC/CTO-13089032/2022/837, Dated 12.06.2022	31.03.2023
7	Renewal of Consent to operate 3.70 MTPA (PSC/ PCC/PPC) under Air & Water Act	JSPCB/HO/RNC/CTO-11629180/2022/241, Dated 06.03.2022	31.03.2027
8	Consent to operate 3.0 MTPA to 3.70 MTPA (PSC/PCC/PPC) under Air & Water Act	JSPCB/HO/RNC/CTO-7428223/2020/560, Dated 04.03.2020	31.03.2022
9	Consent to operate 2.10 MTPA to 3.0 MTPA (PSC/ PCC) under Air & Water Act	JSPCB/HO/RNC/CTO-6316472/2019/2307, Dated 14.11.2019	31.03.2022
10	Consent to operate 2.10 MTPA to 3.0 MTPA (PSC/ PCC) under Air & Water Act	JSPCB/HO/RNC/CTO-4441970/2019/400, Dated 25.02.2019	31.03.2022
11	First CTO (Consent to Operate) 2.10 MTPA	JSPCB Memo no.1295 Dated - 18.05.2011	17.05.2012
12	Authorization of Hazardous Waste	JSPCB/HO/RNC/HWM-9675664/2021/262, Dated 09/04/2021	31.12.2026
13	CTO of OHC under Air & Water Act	JSPCB/HO/RNC/CTO-12574305/2012/636, Dated 20-05-2022	30.06.2027
14	Authorization of Bio-Medical Waste	JSPCB/HO/RNC/BMW-15141326/2023/10 31/05/2023	25.03.2027

## 2.4 SITE INSPECTIONS

The areas that were inspected during the comprehensive site visit to Dalmia site on 20<sup>th</sup> March 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)

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- Water management systems (process water, dust suppression, domestic water)
- Sewage Treatment Plant (STP)
- Gerland 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

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

The team cross-checked statutory consents and approvals with field-level implementation and operational records to ensure compliance.<sup>3</sup>

## **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 Dalmia Cement Bharat Limited, Bokaro, 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**

<b>Status</b>	<b>Description</b>
<b>Complied</b>	Where the environmental condition is implemented in accordance with the stipulated conditions.
<b>Being Complied</b>	The condition is dynamic, where continuous compliance is ensured with passage of time.
<b>Will be Complied / Agreed</b>	Requirement of compliance is at a later date and will be complied at appropriate time.
<b>Partially Complied</b>	Compliance of condition is not fully met and is inadequate.
<b>Not Complied</b>	Non-conformance / lack of implementation of needed action.
<b>Not Applicable / Review Required</b>	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 DALMIA CEMENT BHARAT LIMITED**

Based on the audit, the compliance status of major EC conditions is presented in **Table 3.2**.

**Table 3.2 - Point wise compliance status of Environmental Clearance conditions and Audit Observations /Recommendations by IEM**

<b>EC Conditions - EC Letter No.-EC/SELAA/2018-19/2436/2019/474, Ranchi Dated: 21.09.2019.</b>			
<b>Point No.</b>	<b>Specific Condition of EC</b>	<b>Compliance Status</b>	<b>Observation</b>
<b>I. Specific Condition</b>			
3	This Environmental Clearance is valid subject to the following condition below— That this project has- a. Obtained all legal rights to operate in concerned place b. Complied with all existing concerned laws of the land and  Complied with the decisions of SELAA on the issue of Environmental Clearance all time.	<b>Complied</b>	<b>Complied with.</b> a. Obtained all necessary statutory clearance from concern authority to operate our cement grinding unit. b. Complied all legal law of land with respect to our unit c. Complied with.
<b>II. Statutory Compliance</b>			
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.	<b>Not Applicable</b>	The unit is located in notified industrial area at JHADA, Bokaro, Jharkhand with due allocation through Govt of Jharkhand.
2	The project proponent shall obtain clearance from the National Board for Wildlife, if	<b>Not Applicable</b>	There is no wild life sanctuary within 10 km radius of our unit.

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3	applicable. 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.	<b>Not Applicable</b>	The unit is located in notified industrial area at JHADA Bokaro. There is no record of schedule-I species within 10 km radius of our unit. Therefore, there is no need for site specific conservation plan/ wild life management plan.
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.	<b>Complied</b>	Our Unit has obtained CTE from JSPCB Ranchi vide letter no JSPCB/EO/RNC/CTE-11785214/2022/96 Dated: 06.03.2022. CTO obtained and renewed vide letter no JSPCB/EO/RNC/CTO-14970964/2023/563, Dated:15.03.2023 for the plant expansion from 3.7 MTPA to 4.50 MTPA from JSPCB Ranchi and CTO valid up to 31.03.2027, attached as CTE <b>Annexure-1</b> & CTO <b>Annexure-2</b> .
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.	<b>Complied</b>	The permission for water connection has been obtained from JHADA Bokaro vide Agreement dated 17.05.2011. The same agreement copy is attached herewith as per <b>Annexure-3</b> .
6	The project proponent shall obtain authorization under the Hazardous and other Waste Management Rules, 2016 as amended from time to time.	<b>Complied</b>	DC, DL, Bokaro has obtained Authorization of Hazardous waste from JSPCB, Ranchi vide letter no JSPCB/HO/RNC/11594-9675664/2021/36, Dated 09.04.2021, which is valid up to 31.12.2024 Copy of the same attached as per <b>Annexure-4</b> .
7	No mining activity shall be undertaken in the forest land or denuded forest without obtaining prior forestry clearance.	<b>Not Applicable</b>	Not Applicable to our unit.

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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.	Agreeable	Agreeable.
9	Environmental Clearance is subject to obtained prior clearance from forestry and wildlife angle including clearance from standing committee of NBWL as may be applicable to this project (in case any fauna occur/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 located within 10 km of protected area.	Not Applicable	The unit is located in notified Industrial area at JIADA, Bokaro, Jharkhand with due allocation through Govt of Jharkhand.
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 or accrue to them unless all clearance are obtained.	Not Applicable	The unit is located in notified Industrial area at JIADA, Bokaro, Jharkhand with due allocation through Govt of Jharkhand.

**III. Air quality monitoring and preservation**

1	The project proponent shall install 2x7 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 (Consent) and subsequent amendment dated 9 <sup>th</sup> May 2016 (Consent) and connected to SPCR and CPCB online server and calibrate these system from time from time to according to equipment supplier specification through lab recognized under Environment	Complied	Unit has already installed on line continuous emission monitoring system in our process stack and connected to JSPCB & CPCB server. On line stack emission monitoring data continuously transmitted to CPCB & JSPCB server. Regular maintenance and calibration are being done of stack emission monitoring equipment. Fugitive emission is being regularly monitored in the plant premises and data is being regularly submitted to JSPCB & CPCB. On line CEMS and Manual stack emission monitoring data attached as per <b>Annexure-5</b> .
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	(Protection) Act, 1986 or NABL accredited laboratories. Monitor fugitive emissions in the plant premises.		
2	The project proponent shall monitor fugitive emissions in the plant processes at least once in every quarter through lab recognized under Environment (Protection) Act, 1986.	Complied	We are regularly monitoring fugitive dust emission in our plant by Bokaro and JSPCB & NABL approved laboratory. Copy of fugitive emission monitoring reports is attached as per <b>Annexure-6</b> .
3	The project proponent shall install system to monitor Ambient Air Quality monitoring for non-sourcerion parameters, relevant to the main pollutants released (e.g. PM 10 and PM 2.5 as reference to PM emission, and SO <sub>2</sub> and NO <sub>x</sub> as reference to SO <sub>2</sub> and NO <sub>x</sub> 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, (case to case basis small plants: Manual Large plants: Continuous).	Complied	We have installed 2 Nos On-line Continuous CAAQM monitoring station in up wind and downwind direction with parameter of PM-10, PM-2.5, SO <sub>2</sub> & NO <sub>x</sub> , at the boundary location of the unit. CAAQM monitoring equipment is transmitting data to JSPCB & CPCB server through wide area network. The same data is also displayed at the factory main gate. Unit have also installed manual AAGM monitoring station at 120-degree direction of a plant boundary location. AAGM reports are being regularly submitted to JSPCB Ranchi and Regional office at Elhantal on monthly basis. Photos of CAAQMS is attached as <b>Annexure-7</b> .
4	The project proponent shall submit monthly monthly report of continuous stack emission and air quality monitoring and results of manual stack monitoring and manual monitoring of air quality/fugitive emissions in Regional office of MoEF&CC, Zonal office of CPCB and Regional of SPCEB along with air monthly monitoring report.	Complied	Six monthly environmental monitoring reports is attached herewith as <b>Annexure-8</b> .
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	We have installed 2 nos bag house in VRM mills for the control of air pollution. The bag house stack emission maintained below 50 mg/ftm <sup>3</sup> . Apart from this 33 nos of reference bag filter installed at all material transfer points to control the fugitive dust emission. List of APC system installed in plant attached as

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			<b>per Annexure-8.</b> All belt conveyors are fully covered for the control of fugitive dust emission. Raw materials and products are stored in covered sheds and silos. Regular cleaning of roads by 2 nos road sweeping machine. Good housekeeping is being maintained all around the plant.
6	The project proponent shall provide leakage detection and mechanized bag cleaning facilities for better maintenance of bags.	<b>Complied</b>	Regular maintenance of bag filter, leakage checking, cleaning of bag filter is being done by dedicated mechanical maintenance team as per schedule.
7	Pollution control system in the cement plant shall be provided as per the CREP Guidelines of CPCB.	<b>Complied</b>	Applicable CREP compliance conditions complied. CREP compliance report attached as per <b>Annexure-9</b>
8	Sufficient number of mobile or stationary vacuum cleaners shall be provided to clean plant roads, shop floors, roads, regularly.	<b>Complied</b>	Regular road sweeping and floor cleaning is being done by 2 nos of vacuum sweeping machine for the control of fugitive dust emission. Good housekeeping is being maintained in all around plant premises area. Photographs of road sweeping machine with cleaning of road/floor and log book of road sweeping machine attached as per <b>Annexure-10</b> .
9	Enclose covered transportation and conveying of raw material to prevent spillage and dust generation. Use closed bulkers for carrying fly ash.	<b>Complied</b>	All raw materials are being transported in covered bulk conveyors. Raw material & products is being transported in covered tarpaulin trucks / bulkers / rail for the control of material spillage as well as control of fugitive dust emission.
10	Provide wind shelter fence and chemical spraying on the raw material stock piles.	<b>Complied</b>	We have constructed plant boundary walls around the plant along with thick green belt, which act as wind shelter or wind shield for communities. We have boundary wall erected between plant and hostels which act as wind shield. We have also constructed walls around packing area and raw material yard, which act as wind shelter. Raw materials stored in covered sheds and silos.
11	Have separate truck parking area and monitor vehicular emissions at regular interval.	<b>Complied</b>	Separate truck parking facility provided to pack trucks. Regular checking of vehicles PUC certificates which entering in plant to control of vehicular emission.

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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.	<b>Complied</b>	All raw materials and products are being transported in covered trucks, bulkers, covered conveyor belts/railways to reduce the fugitive dust emission. Regular water sprinkling and road sweeping is being done on the roads through water spray tanker to control of fugitive dust emission.
13	Ventilation system shall be designed for adequate air changes as per ACGIH Document for all tunnels, motor houses, and cement bagging plants.	<b>Complied</b>	Air ventilation system arrangement done for adequate air change in motor houses and packing plant area.
<b>IV. Water quality monitoring and preservation:</b>			
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 lab recognized under Environment (Protection) Act, 1986 or NABL accredited laboratories. (case in case basis small plants/ Manual; Large plants/ Continuous).	<b>Complied</b>	Our unit is standalone cement grinding unit and does not require water for process. The water is only used for equipment cooling in closed loop. Makeup water is only added. Therefore, there is no effluents generated from our process. 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) in sufficient numbers of parameters/sampling wells in the plant and adjacent areas through lab recognized under Environment (Protection) Act, 1986 and NABL accredited laboratories.	<b>Not Applicable</b>	No Ground water withdrawal from our plant. The permission for water connection has been obtained from BRADA. There will not be any effluent generation from the plant. Domestic waste water treated in STP, treated water is being used within plant for greenbelt development and dust suppression. However, we are regularly monitoring ground water quality and depth level in surrounding village wells. Ground water quality & water depth level reports of surrounding village is attached as per <b>Annexure-11</b> .

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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.	Complied	There is no effluent generation from our unit as it does not require water for its process. Our unit has STP 100 KLD for the treatment of domestic waste water. STP treated water quality analysis report attached as per Annexure-11. STP treated water is being used in greenfield development and dust suppression. Ground water monitoring reports are being regularly submitted to MoEF&CC regional office, Zonal office of CPCB and regional office of SPCB as a part of EC compliance report. Ground water quality analysis report attached as per Annexure-11.
4	Adhere to Zero Liquid Discharge	Complied	Zero Liquid Discharge is being maintained.
5	Sewage Treatment Plant shall be provided for treatment of domestic waste water to meet the prescribed standards.	Complied	100 KLD STP is in operation for the treatment of domestic waste water. Treated sewage quality meet the prescribed standard norms. Treated water quality analysis report attached as per Annexure-12.
6	Gullies and 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	Gullies and drains are existing in the raw material yard to accumulate run off water in a settling pit. As a practice, we collect water from pit in water tanker and use it for water sprinkling on our internal roads, on daily basis.
7	The project proponent shall practice rainwater harvesting to maximum possible extent.	Complied	Rain water harvesting system implemented in our unit to recharge the ground water and same is also approved from Ground Water Board, Ranchi. Vide letter no 236 Ranchi Dated 06/09/2013 attached as per Annexure-13. We have also installation of wells and ponds near surrounding village area to conserve the rain water.
8	Water meters shall be provided at the inlet to all unit processes in the cement plant.	Complied	Water meter installed at inlet of our unit, water flow meter photographs attached as per Annexure-14.
9	The project proponent shall make efforts to minimize water consumption in the cement plant complex by segregation of used water practices.	Complied	Optimum use of water is practiced and all necessary efforts has been made to reduce water consumption in our plant.

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	reuse use and by recycling treated water		
<b>V. Noise monitoring and prevention</b>			
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 are being regularly monitored in different locations of our unit. Noise level report is being regularly submitted to Ministry, CPCB, JSPCB as a part of six-monthly EC Compliance report. Six-monthly noise level report attached as per Annexure-15.
2	The ambient noise levels should conform to the standards prescribed under EPA Rules, 1986 viz. 75 dB(A) during day time and 70 dB(A) during night time.	Being Complied	Being complied.
<b>VI. Energy Conservation measures</b>			
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	We have installed solar plate light in plant, colony area. Photographs of Solar light attached as per Annexure-16.
2	Provide the project proponent for LED lights in their offices and residential areas.	Complied	LED bulbs are being used in all offices and residential areas for the lighting purpose.
3	Maximize utilization of fly ash, slag and wastefines in cement blend as per BIS Standards. Waste management	Complied	Slag and fly ash are being used as a raw material for cement manufacturing as per BIS norms.
<b>VII. Waste management</b>			
1	The waste oil, grease and other non-hazardous waste shall be disposed of as per the Hazardous & Other Waste (Management & Transboundary Movement) Rules, 2016.	Complied	Hazardous waste Authorization obtained from JSPCB vide letter no. JSPC/BHO/EN/CFWM-967566/2021/28, Dated 09/04/2021, which is valid up to 31.12.2028. Hazardous waste such as used oil, waste oil disposed through authorized vendor.

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2	Kitchen waste shall be composted or converted in biogas for further use. (to be decided on case to case basis depending on type and size of plant)	<b>Complied</b>	Kitchen waste composted and used in greenbelt development.
<b>VIII. Green Belt</b>			
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.	<b>Complied</b>	We have developed greenbelt in 33% of the total land of unit. Tree plantation report attached as per <b>Annexure-17</b>
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.	<b>Complied</b>	Dalmin Cement (Bihar) Limited Bokaro is a simultaneous process grinding unit for the manufacturing of blended cement by utilizing industrial waste such as slag, fly ash and gypsum. Only small quantity of coal is used in HAD for moisture drying in raw material slag. The GHG emission inventory and action plan for the reduction of GHG emission report attached as per <b>Annexure-18</b>
<b>IX. Public hearing and Human health issues</b>			
1	Emergency preparedness plan based on the Hazard identification and Risk Assessment (HIRA) and Disaster Management Plan shall be implemented.	<b>Complied</b>	On site emergency preparedness plan, Hazard identification and Risk Assessment (HIRA) already prepared and same is approved by Chief Factory Inspector of Jharkhand
2	The PP shall provide Personal Protection Equipment (PPE) as per the norms of factory Act.	<b>Complied</b>	All Personal protective equipment's (PPE) Safety shoes, Noise mask, safety helmet, earplug, provided to all employees and contract workers for their safety. Safety training is being regularly done among the employees for the awareness of safe working culture.
3	Provision shall be made for the housing of construction labour within the site with all necessary infrastructure and facilities such as fuel	<b>Complied</b>	All necessary infrastructure / facility provided in construction labour during construction phase of the project and also removed temporary houses after completion of project

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4	For cooling, mobile toilets, mobile STP, safe drinking water, medical health care, canteen etc. The housing may be in the form of temporary structures to be removed after the completion of the project.		
4	Occupational health surveillance of the workers shall be done on a regular basis and records maintained as per the Factory Act	<b>Complied</b>	Periodic medical health checkup is being regularly done in all employees and workers every six months. Reports are being maintained as per Factory Act.
<b>X. Corporate Environment Responsibility</b>			
1	The project proponent shall comply with the provisions contained in the Ministry's OM vide F.No. 22-65/2017-IA,III dated 1 <sup>st</sup> May 2018, as applicable, regarding Corporate Environment Responsibility.	<b>Being Complied</b>	We are regularly doing CSR surrounding village area which is as follows: 1. Wells & Pond renovation done surrounding village area for water conservation. 2. street light & solar light installed in village 3. Tree plantation done surrounding village 4. Toilet constructed in schools 5. Renovation of school building, community hall and Agawadi surrounding village area. CSR report for the period attached as per <b>Annexure-19</b>
2	The company shall have a well laid down environmental policy duly approved by the Board of Directors. The environmental policy should prescribe the standard operating procedures to have proper checks and balances and to bring into focus any infringement/deviation/violation of the environmental/forest/wildlife norms/conditions. The company shall have defined system of reporting infringement/deviation/violation of the environmental/forest/wildlife norms/conditions and/or stakeholders/stake holders. The copy of	<b>Complied</b>	DCBI, Bokaro have Environmental Management Policy duly approved from Board of Director. copy of Environment policy attached herewith as per <b>Annexure-20</b>

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	the board resolution in this regard shall be submitted to the MoEF&CC as a part of six-monthly report.		
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 the organization.	<b>Complied</b>	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) in our unit.
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 Ministry/Regional Office along with the Six-Monthly Compliance Report.	<b>Complied</b>	Action plan for EMP implementation 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 is being regularly submitted to Ministry and his Regional Office as a part of EC compliance report. Expenditure on Environment Protection is attached as per <b>Annexure-21</b> .
5.	Self-environmental audit shall be conducted annually. Every three years third party environmental audit shall be carried out.	<b>Complied</b>	Self-Environment audit is being regularly done for the continual improvement of environment quality in our plant. Self-Environment audit report attached as per <b>Annexure-22</b> . Third party Environment audit report submitted in previous compliance report.
6.	All the recommendations made in the Charter on Corporate Responsibility for Environment Protection (CR:EP) for the Mineral Beneficiation plants shall be implemented. Miscellaneous.	<b>Not Applicable</b>	Not relevant.

**XI. Miscellaneous**

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1.	The project proponent shall make public the environmental clearance granted for their project along with the environmental conditions and safeguards at their cost by prominently advertising it at least in two local 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.	<b>Complied</b>	We have advertised our Environmental Clearance in local newspaper (Hindustan Times Ranchi, Hindi News Aaj), which are widely circulated in the region and copy of the same attached herewith as per <b>Annexure-23</b> .
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 officers of the Government who in turn has to display the same for 10 days from the date of receipt.	<b>Complied</b>	We have submitted Environment Clearance copy to local Panchayat and other Govt. bodies, district head quarter receiving copy of the same attached herewith as per <b>Annexure-24</b> .
3.	The project proponent shall update 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.	<b>Complied</b>	<b>Complied.</b>
4.	The project proponent shall monitor the criteria pollutants level namely, PM <sub>10</sub> , SO <sub>2</sub> , NO <sub>x</sub> (Ambient levels as well as stack emissions) or critical sectoral parameters, indicated in the projects and display the same at a convenient location for disclosure to the public and put on the website of the company.	<b>Complied</b>	On-line environment monitoring data is being regularly displayed at factory main gate for the notice of public.
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	<b>Complied</b>	<b>Complied.</b>

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	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 this clearance and attract action under the provisions of Environment (Protection) Act, 1986	Will be Complied / Agreed	Noted & agreed.
10	The SUIAA, Jharkhand or any other competent Authority may alter/modify the above condition or stipulated any further conditions in the interest of Environment 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.

Prepared by: Institute for Environmental Management

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*Final Environmental Compliance Audit Report for Dalmia Cement (Bharat) Limited  
(Jharkhand Cement Works), Bokaro, Jharkhand (Line 1)*

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.
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 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 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.	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.

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### **CHAPTER 4 – AUDIT FINDINGS**

The team collected Environmental Clearance (EC) conditions stipulated by MoEF&CC, GoI, issued vide EC letter no. EC/SEIAA / 2018-19 /2138/ 2019/ 474, Ranchi dated: 23.09.2019 for Dalmia Cement Bharat Limited, Bokaro (Unit 1). 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 (inserted from 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.*

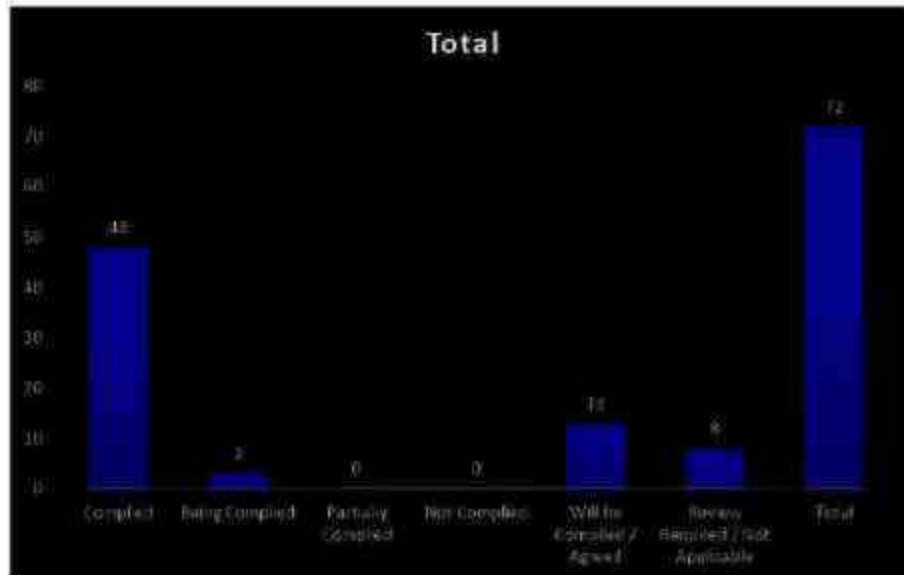
**Table 4.1: Compliance status of component wise specific conditions**

<b>Components</b>	<b>Complied</b>	<b>Being Complied</b>	<b>Partially Complied</b>	<b>Not Complied</b>	<b>Will be Complied / Agreed</b>	<b>Review Required / Not Applicable</b>	<b>Total</b>
Specific Condition	1	0	0	0	0	0	1
Statutory Condition	3	0	0	0	1	6	10
Air Quality Monitoring & Preservation	13	0	0	0	0	0	13
Water Quality Monitoring & Preservation	8	0	0	0	0	1	9
Noise Monitoring And Prevention	1	1	0	0	0	0	2
Energy Conservation Measures	3	0	0	0	0	0	3
Waste Management	2	0	0	0	0	0	2
Green Belt	2	0	0	0	0	0	2
Public Hearing & Human Health Issues	4	0	0	0	0	0	4
Corporate Environment Responsibility	4	1	0	0	0	1	6

**Final Environmental Compliance Audit Report for Dalmia Cement (Bharat) Limited  
(Jharkhand Cement Works), Bokaro, Jharkhand (Line 1)**

Miscellaneous	7	1	0	0	12	0	20
<b>Total</b>	<b>48</b>	<b>3</b>	<b>0</b>	<b>0</b>	<b>13</b>	<b>8</b>	<b>72</b>

**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 equipped with bag filters.

**Recommendation:** Strengthen housekeeping around unloading areas and ensure timely replacement of filter bags.

### 2. CEMENT GRINDING UNIT (VRM)

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

**Recommendation:** Increase frequency of localized cleaning to avoid dust generation.

### 3. FLY ASH / SLAG HANDLING & STORAGE

**Observation:** Material stored in silos; pneumatic conveying minimizes dust.

**Recommendation:** ensure immediate cleanup.

#### **4. COAL /**

**Observation:** Coal yard was covered properly.

**Recommendation:** coverage and ensure regular water sprinkling in dry months.

#### **5. CEMENT STORAGE SILOS**

**Observation:** Silos are equipped with pressure relief valves and bag filters working efficiently. No visible dust during silo aeration.

**Recommendation:** Continue preventive maintenance of bag filters to maintain efficiency.

#### **6. PACKING PLANT & DISPATCH AREA**

**Observation:** Packing machines operate with dust extraction; minor fugitive emissions noticed near truck loading chutes.

**Recommendation:** Continue preventive maintenance of bag filters and cleaning of area by vacuum sweeping machine to control of fugitive dust

#### **7. CENTRAL CONTROL ROOM (CCR)**

**Observation:** Online monitoring systems functional; emissions and process parameters displayed in real time.

**Recommendation:** Enable automated data backup and maintain monthly compliance trend reports.

#### **8. WATER MANAGEMENT SYSTEMS**

**Observation:** Process water is mostly reused; no discharge observed. Water meters installed.

**Recommendation:** Maintain water meter logs to ensure water consumption

#### **9. SEWAGE TREATMENT PLANT (STP)**

**Observation:** STP capacity adequate; treated water reused in horticulture and dust suppression.

**Recommendation:** Improve sludge drying practices and maintain regular sludge disposal records.

#### **10. GARLAND DRAINS & STORM WATER MANAGEMENT**

**Observation:** Drains are mostly clean; minor silt accumulation seen near the raw material yard.

**Recommendation:** Increase frequency of desilting before monsoon

#### **11. SOLID WASTE MANAGEMENT**

**Observation:** Dust collected from bag filters is fully reused. Housekeeping waste stored separately.

**Recommendation:** Introduce color-coded bins uniformly across plant areas.

#### **12. HAZARDOUS WASTE MANAGEMENT**

**Observation:** Used oil stored in designated containers inside an impervious, covered area; labels partially faded.

**Recommendation:** Replace labels and maintain spill-response kits at storage locations.

#### **13. GREENBELT DEVELOPMENT**

**Observation:** Greenbelt density satisfactory along the boundary, colony, plant area

**Recommendation:** Add dust-tolerant species.

#### **14. AMBIENT AIR QUALITY & NOISE MONITORING STATIONS**

**Observation:** Monitoring conducted as per schedule; all parameters within prescribed limits.

**Recommendation:** Provide acoustic enclosures/insulation for noisy equipment and implement if any place. Periodic awareness for workers.

#### **15. OCCUPATIONAL HEALTH CENTRE (OHC)**

**Observation:** OHC well-equipped; health records maintained. Periodic medical checkups conducted but ergonomic assessment missing.

**Recommendation:** Include ergonomic risk assessments and training sessions for high-risk workers.

#### **16. EMPLOYEE PROTECTION & SAFETY MEASURES**

**Observation:** PPE usage is generally good; No non-compliance observed in plant area.

**Recommendation:** Strengthen supervision and conduct refresher training on mandatory PPE use.

#### **17. ENERGY MANAGEMENT SYSTEMS**

**Observation:** VFDs installed at major motors; energy meters functional. Energy audit conducted.

**Recommendation:** Prioritize implementation of identified low-cost energy-saving measures.

#### **18. RENEWABLE ENERGY INTEGRATION**

**Observation:** Solar rooftop system operational; contributes part of auxiliary power.

**Recommendation:** Install more solar light in plant area and awareness.

## **19. CORPORATE SOCIAL RESPONSIBILITY (CSR)**

**Observation:** CSR activities aligned to local needs; documentation available.

**Recommendation:** Develop measurable impact indicators and maintain year-wise CSR outcome reports.

## **4.3 GENERAL OBSERVATIONS AND RECOMMENDATIONS**

### **1. GENERAL SITE MANAGEMENT**

**Observation:** Fugitive dust control measures such as water sprinkling, belt conveyors with enclosures, and bag filters are operational. However, high-dust zones like raw material unloading, VRM feed points, packing plant, and material transfer areas exhibit occasional dust accumulation due to high material movement. Housekeeping is satisfactory. Recommendations:

- Enhance mechanical sweeping frequency on main internal roads and high-traffic areas.
- Strengthen dust extraction systems and rubber skirtings at high-emission points such as packing plant and fly ash unloading.
- Improve housekeeping schedules around VRM platforms and silo aeration areas.

### **2. ENVIRONMENTAL DOCUMENTATION & COMPLIANCE**

**Observation:**

The unit maintains statutory documents including monitoring reports, calibration certificates, manifests, stack emissions data, and CEMS/OCEMS records. Although documentation is complete, some logbooks and monitoring sheets are still maintained manually, leading to inconsistency in data referencing. Calibration of ambient monitoring equipment done as per schedule.

**Recommendations:**

- Introduce digital compliance dashboards for monitoring, reporting, and record-keeping.
- maintain synchronized digital logs.
- Implement six monthly internal audits for environmental documentation accuracy.

### **3. GREENBELT & ECOLOGICAL MANAGEMENT**

**Observation:**

Greenbelt is developed along the plant boundary and internal roads, providing adequate dust filtration. However, density variations and lower survival rates are observed in certain peripheral patches and near the packing/dispatch area.

**Recommendations:**

- Increase plantation density using native, broad-leaf and shade-tolerant species suitable for dusty environments.
- Conduct annual survival-rate audits and replace gaps systematically.
- Extend greenbelt coverage around raw material storage areas to minimize fugitive dispersion.

### **4. WATER & STORMWATER MANAGEMENT**

**Observation:**

The grinding unit operates on a low-water-demand process. Water reuse is practiced for dust suppression and domestic purposes. Existing stormwater drains are functional but show silt accumulation near material handling areas.

**Recommendations:**

- Desilt stormwater drains and sumps prior to monsoon, with periodic checks in high-silt zones.
- Develop additional rainwater recharge structures to improve groundwater percolation.
- Install drain screens or sediment traps in drain minimize silt carryover.

### **5. SAFETY & HEALTH MANAGEMENT**

**Observation:**

The Occupational Health Centre (OHC) is functional and periodic health check-ups are carried out. PPE usage among plant employees is satisfactory.

**Recommendations:**

- Enforce stricter PPE compliance among contract and transient workforce through supervision and periodic tool-box training.
- Install or improve acoustic enclosures and noise barriers in VRM and high-noise mechanical zones.

## **CHAPTER – 5**

### **POST AUDIT CLARIFICATIONS AND FINAL CONCLUSIONS**

After incorporating the clarifications and supporting documents provided by the Project Proponent (DCBL) 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 DCBL has implemented a systematic and responsible approach toward environmental management and regulatory compliance at the Dalmia Cement Bharat Limited, Bokaro (Unit 1). 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:

- **Most environmental clearance (EC) and statutory conditions have been complied with**, as reflected by the high number of fully complied components (48 out of 72), particularly those related to air quality preservation, water management, energy conservation, waste management, greenbelt development, and public health obligations.
- **Several compliance activities are being progressively implemented**, including noise monitoring enhancements and certain Corporate Environment Responsibility (CER) commitments, which fall under the "Being Complied" category.
- **A number of commitments are categorized as "Will be Complied/Agreed"**, primarily associated with long-term or phased actions that remain under implementation and are expected to be completed within stipulated or agreed timelines.
- **No cases of partial or non-compliance were identified**, and no deviations were observed that could pose significant environmental or regulatory risks.
- **Some conditions (8 components) require review or are not applicable** due to operational or regulatory reasons, and these have been appropriately documented in the audit.

## **5.2 ENVIRONMENTAL PERFORMANCE OVERVIEW**

The cement plant maintains a zero-liquid discharge (ZLD) status, Sewage Treatment Plant (STP), and subsequently reused for cement mill, dust suppression, cooling operations, and greenbelt development. Regular desilting of storm water drains and maintenance of peripheral garland drains have effectively minimized off-site runoff and siltation.

Ambient air quality monitoring results indicate that PM<sub>10</sub>, PM<sub>2.5</sub>, SO<sub>2</sub>, and NO<sub>2</sub> values remain within the CPCB-prescribed limits across all monitoring stations. Effective dust suppression systems—including bag filters, ESPs, water sprinklers, and fugitive dust barriers—are operational and being systematically enhanced.

Noise levels during both day and night remain within acceptable limits, supported by the use of acoustic enclosures on compressors, fans, and blowers, along with regular maintenance of heavy equipment.

Clinker and raw material storage yards are largely stabilized, with adequate water spraying arrangements, and covered conveyors to minimize fugitive dust. Greenbelt development around plant boundaries, internal roads, and process units has shown substantial progress, with more than 23,000 saplings planted, including native drought-resistant species and dense plantations in high-activity zones.

## **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.

*Final Environmental Compliance Audit Report for Dalmia Cement (Bharat) Limited  
(Jharkhand Cement Works), Bokaro, Jharkhand (Line 1)*

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

Advertisement in newspaper for receiving of EC from SEIAA



region

03

HINDUSTAN TIMES, RANCHI  
THURSDAY, OCTOBER 03, 2019

**DALMA CEMENT (BHARAT) LIMITED  
BOKARO INDUSTRIAL AREA  
BOKARO JHARKHAND**

**PUBLIC NOTICE**

State level Environment Impact Assessment Authority (SEIAA), Jharkhand has accorded Environment Clearance vide their letter no EC/SEIAA/2018-E9/2138/2019/474, dated 23.09.2019 for "Upgradation of Technology at existing Standalone Cement Grinding Unit (From 3.0 MTW to 3.70 MTW) of M/s Dalma Cement (Bharat) Limited at Plot No: IV/A-7(P), Bokaro Industrial Area, Bokaro.

Copies of clearance letter have been made available with the State Level Environment Impact Assessment Authority office and may also be seen at website of the Ministry of Environment Forest and Climate Change (MoEF & CC) at <http://seiaa.nic.in>

Unit Head & Authorized Signatory



डालमिया सीमेंट ( भारत ) लिमिटेड

बोकारो औद्योगिक क्षेत्र  
बोकारो ( धनबाद )  
सार्वजनिक सूचना

राज्यस्तरीय पर्यावरण प्रभाव आकलन प्राधिकरण (SEIAA), झारखण्ड को द्वारा पर्यावरण सर्वेक्षण संख्या EC/SEIAA/2018-19/2138/2019/474, दिनांक 23.09.2019 को जारी की गई है।

लिमिटेड बोकारो को पर्यावरण (IV/A-7(P)) कोषों के इस्तेमाल के लिए, बोकारो में औद्योगिक क्षेत्र में इस्तेमाल के लिए मौजूद सीमेंट आसरेन इकाई परांपरागत युक्ति (3.0 एमटीए) से 3.70 एमटीए (यू) को अपग्रेडेशन की जाएगी है।

पर्यावरण सर्वेक्षण संख्या EC को प्रमाणित राजकीय पर्यावरण प्रभाव आकलन प्राधिकरण (SEIAA) को जारी किया गया है। और इसे प्राप्त करने के लिए प्रत्येक पर्यावरण संरक्षण (MoEF&CC) को वेबसाइट <http://seiaa.nic.in> पर भी देख सकते हैं।

इसकी प्रतियां सूचक अधिकृत इलाकाधिकारी

EC Copy submitted to local authority and other Govt. Department



o/c

newthink! cement! sugar! refractories! power!

To,  
Shri Ganesh Thakur ji  
Mukhiya  
Village/Basti : Baidih  
Sorabali (South) Gram Panchayat  
Bokaro

Date: 09.10.2019

Sub: Environment Clearance for "Upgradation of Technology at existing standalone Cement Grinding unit from 3.0 MTPA to 3.70 MTPA of M/s Dalmia Cement (Bharat) Ltd. at Plot no.-IV/A-7(P), Bokaro Industrial Area Bokaro"

Dear Sir,

At the outset we extend our sincere thanks for the cooperation extended to us by the Gorabali(S) GP for seamless operation of our cement plant at Bokaro. We had applied for grant of Environment Clearance for enhancement of production capacity from 3.0 MTPA to 3.7 MTPA for which finally EC has been granted by State Level Environment Assessment Authority (SEIAA) vide letter no. EC/SEIAA/2018-19/2138/2019/474 dated 23<sup>rd</sup> September 2019 (Copy of EC enclosed)

This is submitted for your kind information & record please

Thanks & Regards  
Yours sincerely  
For Dalmia Cement (Bharat) Limited

*Mukesh Kumar Garg*  
Mukesh Kumar Garg  
(Unit Head & Assistant Executive Director)

*MKG*  
Encl A/a

*Shri*  
शुभ-प्रिया  
ग्राम पंचायत (सोराबाली) से  
कृपया-वापस भेजें।  
4-10-2019



o/c

newthink! cement! sugar! refractories! power!

To,

Date: 03.10.2019

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

Sub: Environment Clearance for "Upgradation of Technology at existing standalone Cement Grinding unit from 3.0 MTPA to 3.70 MTPA of M/s Dalmia Cement (Bharat) Ltd. at Plot no.-IV/A-7(P), Bokaro Industrial Area Bokaro"

Dear Sir,

At the outset we extend our sincere thanks for the cooperation extended to us by the JIADA for seamless operation of our cement plant at Bokaro. We had applied for grant of Environment Clearance for enhancement of production capacity from 3.0 MTPA to 3.7 MTPA for which finally EC has been granted by State Level Environment Assessment Authority (SEIAA) vide letter no. EC/SEIAA/2018-19/2138/2019/474 dated 23<sup>rd</sup> September 2019 (Copy of EC enclosed)

This is submitted for your kind information & record please

Thanks & Regards

Yours Sincerely  
For Dalmia Cement (Bharat) Limited

*Mukesh Garg*  
Mukesh Kumar Garg  
(Unit Head & Assistant Executive Director)

End A/a

## EC Compliance report uploaded in Dalmia Cement official website

The screenshot shows the Dalmia Cement website's 'Environmental Clearances And Compliances' page. The page features a navigation bar with links for Home, Dalmia Dealers, Blogs, and Contact Us. Below the navigation bar, the main heading is 'Environmental Clearances And Compliances'. Underneath, there is a section for 'Plants' which contains a table listing various operating units and their corresponding environmental clearances and compliances.

Sn.	Locations	Environmental Clearances	Environmental Compliances
1	Operating Units		
a	DALMIAPURAM, Tiruchy, Tamil Nadu		
b	KADAPA, Chinnakomerata, Jammalamadugu, Kadapa District, Andhra Pradesh		
c	ARIYALUR, Thamarakulam, Ariyalur District - 621005, Tamil Nadu		
d	Cement Plant at Yadwed, Taluk Gokak, District Belgaum, Karnataka		
e	Half Yearly Environmental Clearance Compliance Report, Bokaro, Jharkhand		
f	Village Kanari, Tehsil, Char, District Bokaro, Jharkhand		

At the bottom of the table, there are three icons: an envelope (email), a telephone (contact), and a location pin (map).

Display board of real time ambient air quality installed at factory main gate



## EC Compliance report uploaded Parivesh 2.0 portal of MoEF and CC website

Your (Half Yearly Compliance Report) has been Submitted with following details	
Proposal No	SIA/JH/IND/105812/2017
Compliance ID	562085178
Compliance Number(For Tracking)	EC/M/COMPLIANCE/562085178/2025
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
<b>Note:-</b> 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

<b>Proposal No</b>	SIA/JH/IND/105812/2017
<b>Compliance ID</b>	126405802
<b>Compliance Number(For Tracking)</b>	EC/M/COMPLIANCE/126405802/2025
<b>Reporting Year</b>	2025
<b>Reporting Period</b>	01 Jun(01 Oct - 31 Mar)
<b>Submission Date</b>	08-05-2025
<b>RO/SRO Name</b>	Shri Senthil Kumar Sampath
<b>RO/SRO Email</b>	agmu156@ifs.nic.in
<b>State</b>	JHARKHAND
<b>RO/SRO Office Address</b>	Integrated Regional Offices, Ranchi

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

## Environment Statement Form (V) Uploaded in Company official website

The screenshot shows the Dalmia Cement website's 'Environment Statement Form (V)' page. The page features a navigation bar with the Dalmia Cement logo and links for Home, Dalmia Dealers, Blogs, and Contact Us. Below the navigation bar, there are sections for PRODUCTS & SERVICES, CORPORATE, and ABOUT US. The main content area displays a list of documents, each with a letter identifier, a description, and file icons representing the uploaded documents.

k	CFE- 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 Biswak, PO:Banunia, PS:Tangi, Cuttack-754082	
n	Integrated Cement Plant and Captive Power Plant at Jaintia 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 OHC and "Environment Statement Form-V 2022-23, Dalmia Cement OHC"	
t	Environment Statement Form-V 2022-23, DCBL, Bokaro	
2	Proposed Units	

The bottom of the page shows a Windows taskbar with various application icons and a system tray displaying the date and time as 4:27 PM on 22/10/2022.

**EC Compliance report submitted to SEIAA Ranchi ,MoEF& CC Regional Office, JSPCB Ranchi,JSPCB Regional office Dhanbad and CPCB.**



*cement! sugar! refractories! power!*

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

Date: 29.11.2025

**Subject: Half yearly Environment Clearance (EC) Compliance report of Dalmia Cement (Bharat) Limited, Bokaro for the period of April 2025 to September 2025.**

Ref: EC Letter no. EC/SEIAA/2018-19/2138/2019/474, Ranchi, Dated 23.09.2019.

Dear Sir,

Please find enclosed herewith half yearly Environment Clearance compliance report of Dalmia Cement (Bharat) Limited, Bokaro, Jharkhand for the period of April 2025 to September 2025 for your kind perusal.

We have also uploaded EC Compliance report in Parivesh 2.0 Portal of MoEF and CC website and the soft copy of EC Compliance report is also being sent through email to following authorities:

meseiaa.jhk@gmail.com; ro.ranchi-mef@gov.in; ranchijspcb@gmail.com; ccb.opcb@nic.in; dhanbadjspcb@gmail.com; info@seiaa.org; chr-seiaa.jr@gov.in

Thanking you.

Yours Sincerely,

For **Dalmia Cement (Bharat) Limited, Bokaro**

**Authorized Signatory**

**Copy:**

1. The Director, Ministry of Environment, Forest and Climate Change, 2nd Floor, Headquarter-Jharkhand State Housing Board, Harma 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, HFC 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

**Dalmia Cement (Bharat) Limited**

Plot No. 1004/1004/1, Bokaro Industrial Area, Bokaro, Jharkhand - 834004, India  
11/29/2025 12:11 PM Vienna Saranya  
Phone: +91 91222 214 701 Fax: +91 91222 214 700 Email: info@dalmiacement.com  
Registered Office: Dalmiapurwa, Durgam Chauraha, Ranchi, Jharkhand - 834001, India.  
A Dalmia Bharat Group Company, www.dalmiaindia.com

**DCBL Public Liability Insurance policy copy**

		<b>The Oriental Insurance Company Limited</b>		(This Document is Electronically Signed) 	
				Signer: DS DICT/DCBL/DCBL INSURANCE COMPANY LIMITED Date: Tue, Oct 7, 2025 10:43:25:51 Reason: Signing Policy for DCB	
<b>LIABILITY INSURANCE (UNDER PUBLIC LIABILITY INSURANCE ACT, 1991) POLICY SCHEDULE</b>					
Policy No.	: 312100/48/2025/298	Prev. Policy No.	: 4007/193007732/05/000		
Cover Note No.	:	Cover Note Date	:		
Insured's Code	: 200699059	Issue Office code	: 312100		
Insured's Name	: M/s Dalmia Cement (Bihar) Ltd. (GSTIN: 33AADCA9414C126)	Issue Office Name	: KBO KOLKATA (GSTIN: 19AAACT0827R0207)		
Address	: Dalmiapuram, Trichi Tamilnadu, Trichirapali - 621651	Address	: 7 RED CROSS PLACE  KOLKATA WEST BENGAL 700007		
Tel/Fax/Email	: / / D / NA	Tel/Fax/Email	: / / per/tosh.biwas@orientalinsurance.co.in		
<b>Agent/Broker Details:</b>					
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_JND 1089200316 - 07/10/2025	GST INVOICE NO.	: 1921109976	UIN	: 0
Gross Premium	: 400,000	GST	: 72000	Stamp Duty	: 5
				Total	: 872,000
Co-insurance Details	: NIL				
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 <a href="http://www.orientalinsurance.org.in">www.orientalinsurance.org.in</a> or on demand from the policy issuing office.					
Specific Conditions if any :					
Place	: KOLKATA				
Date	: 07/10/2025				
				Page 1 of 9	



# The Oriental Insurance Company Limited

This Document is Digitally Signed

Super-Digitally Signed Insurance  
COMPANY LIMITED  
Date: Tue, Oct 7, 2025 11:43:52 IST  
Reason: Signing Process OK

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

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 INR 700,000,000 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.
- ∟ Workman'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 expenses) whether incurred directly or indirectly.

Excess : 0.25% of AOA 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

Signature of THE DIRECTOR, INSURANCE COMPANY LIMITED  
Date: Tue, Oct 7, 2025 12:43:52 IST  
Reason: Signing Policy for OICL

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.
- ∟ Owners/operation or use of:
- ∟ Aircraft and air cushioned vehicles including construction repair or installation work on aircrafts.
- ∟ 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: Riots, War and Sabotage, Terrorism Liability NMA 2918
- ∟ 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
- ∟ GMC, TSE, Toxic Mold, EMF
- ∟ T&D lines
- ∟ PFAS, PFOA
- ∟ Fluctuation/Failure to Supply

Place : KOLKATA

Date : 07/10/2025



POL-312100-208



The Oriental Insurance Company Limited

This Document is Digitally Signed

Signer: DS [HEALTH] INSURANCE COMPANY LIMITED  
Date: Tue, Oct 7, 2025 3:43:57 IST  
Reason: Signing Policy for OICL



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

OTHER TERMS & CONDITIONS

- ⌄ Claims Made policy
- ⌄ No knowledge of circumstances that might lead to a loss
- ⌄ No additional limits to be bought without concurrence of OICL
- ⌄ If there exists any other policy covering the same risk, our policy would contribute proportionately in case of a claim.
- ⌄ 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
- ⌄ 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.
- ⌄ Right to defend
- ⌄ Designated premises list & details of surrounding area to be provided prior to binding
- ⌄ List of hazardous goods to be provided prior to binding
- ⌄ Warranted that All environmental clearances and operating licenses from regulatory authorities to be in place
- ⌄ Warranted that Accurate record of hazardous material being handled should be maintained at all times.
- ⌄ Warranted that safety audits to be regularly conducted at prescribed time limits
- ⌄ Warranted that All regulatory compliances in place at all times
- ⌄ 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
- ⌄ Warranted that all safety and security protocols to be followed at all times
- ⌄ Any change in exposure / risk to be duly informed to the ulw and approval to be taken for the same

DEDUCTIBLE: 5% of claim amount minimum of Rs.5.00 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, 1991 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 abinito (from inception).

In witness whereof the undersigned being authorised by and on behalf of the Company has/have herein set his/their hands at KRO KOLKATA (GSTIN: 19AAACT0927R32U) on 07TH DAY OF OCTOBER 2025

Place : KOLKATA  
Date : 07/10/2025



