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Date: 21.11.2023

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e Member Secretary,	
ate Level Environment Impact Assessment Authority, Jharkhand	
ursery Complex, Near Dhurwa Bus Stand, Dhurwa,	
anchi-Jharkhand -834004	

Subject: Half yearly Environment Clearance (EC) Compliance report of Dalmia Cement (Bharat) Limited, Bokaro for the period of April 2023 to September 2023.

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' 2023 to September '2023 for your kind perusal.

Thanking you.

Yours Sincerely,

For Dalmia Cement (Bharat) Limited, Bokaro

Inei hours

Authorized Signatory

Copy:

1. The Director, Ministry of Environment, Forest and Climate Change, 2nd Floor, Headquarter-Jharkhand State Housing Board, Harmu Chowk, Ranchi, Jharkhand - 834002

- 2. The Member Secretary, Central Pollution Control Board, Parivesh Bhavan, East Arjun Nagar, Delhi-110032
- 3. The Member Secretary, Jharkhand State Pollution Control Board, Township Administration Building, HEC Complex, Dhurwa, Ranchi-834004
- 4. Regional Environmental Officer, Jharkhand State Pollution Control Board Dhanbad, HIG-1, Sardar Patel Nagar, Hirapur Dhanbad-826001

Enclosed:

- 1. EC Compliance Report
- 2. Annexure -1 to 9

Dalmia Cement (Bharat) Limited

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

Environment Clearance compliance report of Dalmia Cement (Bharat) Limited from April 2023 to September 2023

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

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 APRIL 2023 TO SEPTEMBER 2023

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

	EC Compliance Condition	EC Compliance Status
I	Specific Condition	
	This Environmental Clearance is valid subject to the following condition below —	Complied with.
	That this project has- a. Obtained all legal rights to operate at concerned place.	a. Obtained all necessary statutory clearance to operate our stand-alone cement Grinding Unit.
	b. Complied with all existing concerned laws of the land and	b. Complied all legal law of land with respect to our unit
	c. Complied with the decisions of SEIAA on the issue of Environmental Clearance till date.	c. Complied with.
П	Statutory Compliance	
1	The project proponent shall obtain forest clearance under the provisions of Forest (Conservation) Act, 1986, in case of the diversion of forest land for non-forest purpose involved in the project.	Not Applicable . The unit is located in notified Industrial area at JIADA, Bokaro, Jharkhand with due allocation through Govt of Jharkhand.
2	The project proponent shall obtain clearance from the National Board for Wildlife, if applicable.	Not Applicable. There is no wild life sanctuary within 10 km radius of our unit.
3	The project proponent shall prepare a Site- Specific Conservation Plan & Wildlife Management Plan and approved by the Chief Wildlife Warden. The recommendations of the approved Site-Specific Conservation Plan / Wildlife Management Plan shall be implemented in consultation with the State Forest Department. The implementation report shall be furnished along with the six-monthly compliance report. (in case of the presence of schedule-I species in the study area)	Not Applicable. The unit is located in notified industrial area at BIADA 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.	Complied with . 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, Dated15.03.2023 for the plant expansion from 3.7 MTPA to 4.50 MTPA from JSPCB Ranchi and CTO valid up to 31.03.2027.
5	The project proponent shall obtain the necessary permission from the Central Ground Water Authority, in case of drawl of ground water / from the competent authority concerned in case of drawl of surface water required for the project	Complied with. This is a standalone cement grinding unit, where, water requirement for process is zero. The small quantity of water is required for cooling purpose, which is obtained from BIADA. The Unit have water agreement with BIADA for the supply of water to DCBL Bokaro.
6	The project proponent shall obtain authorization under the Hazardous and other Waste Management Rules, 2016 as amended from time to time	Complied with . 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, which is valid up to 31.12.2026.
7	No mining /activity shall be undertaken in the forest land or deemed forest without obtaining prior forestry clearance.	Not Applicable to our unit operations
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
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.	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	Not applicable . The unit is located in notified Industrial area at BIADA, Bokaro, Jharkhand with due allocation through Govt of Jharkhand.

	accrue to them unless all clearance are obtained.	
ш	Air quality monitoring and preservation	
1	The project proponent shall install 24x7 continuous emission monitoring system at process stacks to monitor stack emission with respect to standards prescribed in Environment (Protection) Rules 1986 vide G.S.R. no 612 (E) dated 25 August ,2014 (Cement) and subsequent amendment dated 9 th 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.	Complied with . 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.
2	The project proponent shall monitor fugitive emissions in the plant premises at least once in every quarter through labs recognized under Environment (Protection) Act, 1986.).	Complied with . We are regularly monitoring fugitive dust emission in our plant by JSPCB & NABL approved laboratory. Copy of all Environmental monitoring reports from April 2023 to September 2023 is attached as per Annexure-1
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 S02 and NOx in reference to S02 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)	Complied with . We have installed 2 Nos On-line Continuous AAQM monitoring station in up wind and downwind directions with parameter of PM- 10, PM-2.5, SO2 & NOx, at the boundary location of the unit. Continuous AAQM 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 4.nos manual AAQM monitoring station at 120-degree direction of a plant boundary location. AAQM reports are being regularly submitted to JSPCB Ranchi and Regional office at Dhanbad on monthly basis. six monthly average AAQM report attached as per Annxure-1
4	The project proponent shall submit monthly summary report of continuous stack emission and air quality monitoring and results of manual stack monitoring and manual	Complied. Six monthly environmental monitoring reports from April 2023 to September 2023

	monitoring of air quality/fugitive emissions to Regional office of MoEF&CC, Zonal office of CPCB and Regional of SPCB along with six monthly monitoring report	is attached as per Annexure-1
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 30 mg/Nm3. Apart from this 33 nos of nuisance bag filter installed in all material transfer points to control the fugitive dust emission. All belt conveyors are fully covered for the control off 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.	Complied . Regular maintenance of bag filters, leakage checking, cleaning of bag filters is being done by dedicated mechanical maintenance team as per schedule.
7	Pollution control system in the cement plant shall be provided as per the CREP Guidelines of CPCB.	Complied. Applicable CREP compliance conditions complied.
8	Sufficient number of mobile or stationery vacuum cleaners shall be provided to clean plant roads, shop floors, roofs, regularly.	Complied. 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.
9	Ensure covered transportation and conveying of raw material to prevent spillage and dust generation; Use closed bulkers for carrying fly ash.	Complied. All raw materials are being transported in covered belt 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;	Complied. We have constructed plant boundary walls around the plant along with thick green belt, which act as wind shelter or wind shield for contaminants. We have boundary wall

		erected between plant and hostels which act as wind shields. We have also constructed walls around packing unit, 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.	Complied . Separate truck parking facility provided to park trucks. Regular checking of vehicles PUC certificates which entering in plant to control of vehicular emission.
12	Efforts shall be made to reduce impact of the transport of the raw materials and end products on the surrounding environment including agricultural land by the use of covered conveyor belts/railways as a mode of transport.	Complied . All raw materials and products are being transported in covered trucks, bulker, covered conveyor belts/railways to reduce the fugitive dust emission.
		Regular water sprinkling 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, cement bagging plants.	Complied. Air ventilation system arrangement done for adequate air change in motor houses and packing plant area.
IV	Water quality monitoring and preservatio	n:
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.	Complied with . We are taking water from BIADA for plant operation and domestic use. No ground water is used in our plant. however, we are regularly monitoring ground water quality and depth level in surrounding village wells. Water quality & wells depth level reports of surrounding village attached as per Annexure-1

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.	There is no effluent generation from our unit as it does not require water for its process. 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-1
4	Adhere to 'Zero Liquid Discharge	Complied with . 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 with . 100 KLD STP is in operation for the treatment of domestic waste water. Treated sewage quality meet the prescribed standard norms. Treated water analysis report attached as per Annexure-1
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.	Complied with . Garland drain 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 with . Rain water harvesting system implemented in our unit to recharge the ground water and same is also approved from Ground Water Board, Ranchi. 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.	Complied . Water meter installed at inlet of our unit.
9	The project proponent shall make efforts to minimize water consumption in the cement plant complex by segregation of used water practicing cascade use and by recycling treated water.	Complied . Optimum use of water is practiced and all necessary efforts has been made to reduce water consumption in our plant.
v	Noise monitoring and prevention	·

1	Noise level survey shall be carried as per the prescribed guidelines and report in this regard shall be submitted to Regional Officer of the Ministry as a part of six- monthly compliance report.	Compiled Noise level are being regularly monitored in different locations of 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 (April 2023 to September 2023) attached as per Annexure-1
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.	Being complied.
VI	Energy Conservation measures:	
1	Provide solar power generation on roof tops of buildings for solar light system for all common areas, street lights, parking around project area and maintain the same regularly.	Complied with . We have installed solar plate light in plant, colony area. We have also initiated to install more solar light in plant.
2	Provide the project proponent for LED lights in their offices and residential areas,	Complied with . LED bulbs 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	Complied with. Slag and fly ash are being used as a raw material for cement manufacturing as per BIS norms.
VII	Waste management	
1	The waste oil, grease and other hazardous waste shall be disposed of as per the Hazardous & Other waste (Management & Trans boundary Movement) Rules, 2016.	Authorization obtained from JSPCB vide
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)	Complied with. Kitchen waste composted and used in greenbelt development.
VIII	Green Belt and EMP:	

1	Green belt shall be developed in an area equal to 33% of the plant area with a native tree species in accordance with CPCB guidelines. The greenbelt shall inter alia cover the entire periphery of the plant	Complied with . We have developed greenbelt in 33% of the total land of unit. Tree plantation report attached as per Annexure-2
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 inventory and action plan for the reduction of GHG emission report attached as per Annexure-3 .
IX	Public hearing and Human health issues	
1	Emergency preparedness plan based on the Hazard identification and Risk Assessment (HIRA) and Disaster Management Plan shall be implemented.	Complied with . On side 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.	Complied with . All Personal protective equipment's (PPE) Safety shoes, Nose mask, safety helmet, earplug, provided to all employees and contract workers for their safety.
		Safety training is being regularly 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.	Complied with . 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	Complied Periodic medical health checkup is being regularly done to all employees and workers every six months. reports are being maintained as per Factory Act.

x	Corporate Environment Responsibility	
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 st May 2018, as	Being Complied. we are regularly doing CER surrounding village area which is as follows:
	applicable, regarding Corporate Environment Responsibility.	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 Aganwadi surrounding village area. CER & CSR report for the period April 2023 to September 2023 attached as per Annexure: 4
2	The company shall have a well laid down environmental policy duly approve by the Board of Directors. The environmental policy should prescribe for standard operating procedures to have proper checks and balances and to bring into focus any infringements/deviation/violation of the environmental/forest wildlife norms/conditions. The company shall have defined system of reporting infringements/deviation/violation of the environmental/forest/wildlife norms/conditions and/or shareholders/stake holders. The copy of the board resolution in this regard shall be submitted to the MoEF&CC as a part of six- monthly report.	Complied with . DCBL Bokaro have Environmental Management Policy duly approved from Board of Director. copy of Environment policy attached herewith as per Annexure-5
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.	Complied . Environment Management Cell has been established at our plant as well as at Corporate headquarter for the management of environmental activities with qualified person. Environment management cell is headed by Executive Director (Plant Head) 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.	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

	Year wise progress of implementation of action plan shall be reported to the Ministry/Regional Office along with the Six-Monthly Compliance Report.	Environment Protection (Capital cost & Recurring cost) from April 2023 to September 2023 is attached as per Annexure-6
5	Self-environmental audit shall be conducted annually. Every three years third party environmental audit shall be carried out.	Complied with . Self-Environment audit is being regularly done for the continual improvement of environment quality in our plant. Self-Environment audit report attached as per Annexure-7 . Third party Environment audit report submitted in pervious compliance report October 2021 to March 2022.
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
x	Miscellaneous	
1	The project proponent shall make public the environmental clearance granted for their project along with the environmental conditions and safeguards at their cost by prominently advertising it at least in two local 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.	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 Annexure-8.
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 tun has to display the same for 30 days from the date of receipt.	Complied. 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 Annexure-9
3	The project proponent shall upload the status of compliance of the stipulated environment clearance conditions, including results of monitored data on their website and update the same on half-yearly basis.	Complied.
4	The project proponent shall monitor the criteria pollutants level namely; PM_{10} , SO_2 . NO_x (Ambient levels as well as stack emissions) or critical sectoral parameters, indicated for the projects and display the same at a convenient	Complied . On-line environment monitoring data is being regularly displayed at factory main gate for the notice of public.

	location for disclosure to the public and put on the website of the company.	
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.	Complied.
6	The project proponent shall submit the environmental statement for each financial year in Form-V to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently and put on the website of the company.	Complied Environment Statement in Form V is regularly submitted to JSPCB, Dhanbad & Ranchi. Last Environment Statement was submitted vide our letter no. DCBL/ENV- ES/22-23/01, Dated 18.09.2023.
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)
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(11)	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 (BIADA), 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)	Noted & agreed

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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.	Noted & 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.	Noted & agreed
11	No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment, Forests and Climate Change (MoEF&CC).	Noted & agreed
12	Concealing factual data or submission of false/fabricated data may result in revocation of this environmental clearance and attract action under the provisions of Environment (Protection) Act, 1986.	Noted & agreed
13	The Ministry may revoke or suspend the clearance, if implementation of any of the above conditions not satisfactory.	Noted & agreed
14	The Ministry reserves the right to stipulate additional conditions if found necessary. The Company in a time bound manner shall implement these conditions.	Noted & agreed
15	The Regional Office of this Ministry shall monitor compliance of the stipulated conditions. The project authorities should extend full cooperation to the officer (s) of the Regional Office by furnishing the requisite data / information/monitoring reports.	Noted & agreed
16	The above conditions shall be enforced, inter- alia under the provisions of the Water (Prevention & Control of Pollution) Act, 1974, the Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986, Hazardous and Other Wastes (Management and 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	Noted & agreed

	Supreme Court of India / High Courts and any other Court of Law relating to the subject matter.	
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 cf the National Green Tribunal Act,	Noted & agreed
18	This environmental clearance is valid for seven years from the date of issue.	Noted & Agreed

Annexure-1

DALMIA CEMENT BHARAT LIMITED, BOKARO

AMBIENT AIR QUALITY MONITORING REPORT FROM APRIL 2023 TO SEPTEMBER 2023

Ambient air quality monitoring report -Near Time office				
	SO2	NOx	PM-10	PM-2.5
	μg/m3	μg/m3	μg/m3	μg/m3
April-2023,	9.43	20.01	54.98	29.0
May-2023,	12.19	19.08	55.21	26.4
June-2023,	10.89	17.45	53.86	30.4
July-2023,	11.08	18.98	51.75	21.7
August-2023,	8.2	19.03	46.37	19.8
September-2023,	7.3	22.5	49.9	21.9
Min.	7.3	17.5	46.4	19.8
Max.	11.1	22.5	55.2	30.4
Avg.	9.8	20.2	52.0	25.4

Ambient air quality monitoring report FH-3 Building				
	SO2	NOx	PM-10	PM-2.5
	μg/m3	μg/m3	μg/m3	µg/m3
April-2023,	9.2	17.2	52.6	28.3
May-2023,	8.4	16.8	52.3	27.8
June-2023,	10.5	15.1	50.6	26.4
July-2023,	6.8	16.8	46.3	18.8
August-2023,	7.8	17.3	44.0	19.6
September-2023,	6.4	15.8	45.5	17.3
Min	6.4	15.1	44.0	17.3
Max.	10.5	17.3	52.6	28.3
Avg.	8.4	16.4	48.5	22.9

JSPCB Norms

SO ₂	NOx	PM ₁₀	PM _{2.5}
(µg/m ³)	(µg/m ³)	(µg/m ³)	(µg/m ³)
80	80	100	60

AMBIENT AIR QUALITY MONITORING REPORT FROM APRIL 2023 TO SEPTEMBER 2023

Ambient air quality monitoring report: Near Wagon Tippler				
SO2 NOx PM-10 PM-2.				PM-2.5
	μg/m3	μg/m3	μg/m3	μg/m3
April-2023,	10.7	18.6	53.4	29.6
May-2023,	11.2	19.5	54.6	30.4
June-2023,	12.6	15.8	52.2	28.9
July-2023,	7.5	17.8	50.8	23.4
August-2023,	9.1	23.4	51.4	25.1
September-2023,	13.2	22.1	49.2	21.8
Min	7.5	15.8	49.2	21.8
Max	12.6	23.4	54.6	30.4
Average	10.4	21.0	51.1	26.3

Ambient air quality monitoring report: Fabrication yard				
	SO2	NOx	PM-10	PM-2.5
	μg/m3	µg/m3	μg/m3	μg/m3
April-2023,	11.0	22.1	55.7	30.2
May-2023,	10.5	21.6	56.4	31.8
June-2023,	8.9	20.3	54.1	25.0
July-2023,	9.2	19.0	49.2	21.7
August-2023,	8.3	17.8	53.0	28.3
September-2023,	7.4	24.7	50.4	23.5
Min	7.4	19.0	49.2	21.7
Max	11.9	24.7	56.4	31.8
Average	9.0	22.1	53.1	27.8

JSPCB Norms

SO ₂	NOx	PM ₁₀	PM _{2.5}
(µg/m ³)	(µg/m ³)	(µg/m ³)	(µg/m ³)
80	80	100	60

MANUAL STACK EMISSION MONITORING REPORT OF VRM BAG HOUSE STACK FROM APRIL 2023 TO SEPTEMBER 2023.

Month	Min.	Max.	Avg.
April-2023,	19.7	26.9	23.3
May-2023,	16.9	27.3	22.1
June-2023,	14.7	21.8	18.2
July-2023,	12.8	22.4	17.1
August-2023,	13.8	25.2	19.5
September-2023,	14.6	20.9	17.8
Min.	12.8	20.9	17.1
Max.	19.7	27.3	23.3
Avg.	15.6	24.0	19.8

ONLINE STACK EMISSION MONITORING REPORTOF VRM BAG HOUSE STACK FROM APRIL 2023 TO SEPTEMBER 2023

Month	Min.	Max.	Avg.
April-2023,	9.43	25.51	18.7
May-2023,	10.39	21.26	17.1
June-2023,	7.5	28.0	19.5
July-2023,	5.26	23.7	17.9
August-2023,	6.45	22.21	14.7
September-2023,	9.86	23.23	19.2
Min.	5.3	21.2	14.7
Max.	10.4	28.0	19.5
Avg.	8.1	24.8	17.9

JSPCB Norms	30 mg/Nm3

NOISE LEVEL REPORT FROM APRIL 2023 TO SEPTEMBER 2023

		Nea	ar Time offi	ce				
	D		Night Time dB(A)					
Month	Min.	Max.	Avg.		Min.	Max.	Avg.	
April-2023,	61.5	64.7	62.6		57.5	61.4	59.7	
May-2023,	62.3	63.6	63.2		55.8	60.3	58.2	
June-2023,	63.7	65.1	64.1		54.7	59.2	56.8	
July-2023,	61.1	64.2	63.0		58.4	62.5	60.5	
August-2023,	62.7	66.9	64.7		54.1	63.9	61.4	
September-2023,	61.5	64.2	62.3		56.4	61.5	59.9	

		Near F	H 3&4 Buil	ding					
	D		Night Time dB(A)						
Month	Min.	Max.	Avg.		Min.	Max.	Avg.		
April-2023,	40.3	44.9	42.4		39.8	42.9	41.3		
May-2023,	42.9	43.5	43.2		41.6	43.3	42.5		
June-2023,	41.6	42.1	41.7		42.7	46.2	44.1		
July-2023,	43.1	44.3	42.8		37.9	41.7	40.3		
August-2023,	42.8	43.7	43.1		40.6	43.5	41.8		
September-2023,	40.6	42.2	41.7		39.9	42.5	41.0		

		W	agon Tipple	er					
	D	ay Time dB(A	A)		Night Time dB(A)				
	Min.	Max.	Avg.		Min.	Max.	Avg.		
April-2023,	65.3	69.1	67.6		63.3	65.6	64.3		
May-2023,	63.8	65.6	64.7		62.4	63.2	61.8		
June-2023,	64.9	68.6	66.0		61.6	62.7	62.7		
July-2023,	62.3	67.8	65.0		60.3	65.2	64.6		
August-2023,	63.5	68.1	66.8		61.9	64.5	63.2		
September-2023,	64.3	67.8	65.0		60.8	63.9	62.4		

		Near	Fabrication	ı yar	d					
	D	ay Time dB(/	4)		Night Time dB(A)					
	Min.	Max.	Avg.		Min.	Max.	Avg.			
April-2023,	62.6	69.1	67.1		63.3	65.6	64.3			
May-2023,	64.2	67.1	65.4		59.4	61.6	60.4			
June-2023,	65.7	68.2	66.8		58.6	62.9	61.7			
July-2023,	63.3	69.1	67.2		61.9	65.3	63.6			
August-2023,	65.7	69.4	66.8]	60.5	64.1	62.3			
September-2023,	64.9	67.7	65.3		59.3	62.1	60.9			

FUGITIVE DUST EMISSION MONITORING REPORT FROM APRIL 2023 TO SEPTEMBER 2023

Sr. No	Date of monitoring	Near Mill area µg/m3	Near Coal yard µg/m3	Near Packing plant µg/m3	Near raw material yard µg/m3
1	April-2023,	1137.1	1042.1	1027.6	1157.8
2	May-2023,	1253.6	1193.7	887.9	1073.4
3	June-2023,	1270.3	936.6	1131.5	893.12
4	July-2023,	963.6	843.5	1322.4	932.75
5	August-2023,	826.7	912.3	1035.7	725.3
6	September-2023,	785.2	968.5	993.4	1024.5
	Min.	785.2	843.5	887.9	725.3
	Max.	1270.3	1193.7	1322.4	1157.8
	Avg.	1036.50	991.74	1076.1	961.25

Fugitive dust CPCB Norms

2000 µg/m3

GROUND WATER LEVEL REPORT OF SURROUNDING VILLAGES FROM APRIL 2023 TO SEPTEMBER 2023

Location	Coordinate of Site	Distance from Plant site (KM)	Depth from ground (feet)					
	Site		April-	May-	June-	July-	August-	Sep-
		Month	2023,	2023,	2023,	2023,	2023,	2023,
Pakhriatand (Near	23070'5590"N							
Anganwadi)	86006'2678" E	1	20'5"	23'4"	25'2"	23'5"	17'6"	19'10"
Tupkadi (Near Electric	23071'3362"N							
Pole)	86006'1573" E	1	16'0"	16'8"	19'0"	18'1"	15'4"	18'1"
Godawali (Near	23068'7751"N							
Temple)	86006'0031" E	1	6'9"	6'9"	8'5"	6'7"	2'5"	2'10"
Bhutkuru (Near	23070'4642"N							
primary School)	86005'1418" E	1	17'9"	18'3"	20'1"	18'4"	15'3"	12'8"

STP OUTLET WATER QUALITY ANALYSIS REPORT

			Suspended	COD	BOD	Oil &	
Sr. No	Parameter	PH	solids mg/lit	mg/lit	mg/lit	Grease mg/lit.	
	Norms	5.5-9.0	100	250	30	10	
					1	-	
1	April-,2023	7.6	13	40	8.5	4.3	
2	May-,2023	7.5	15	45	7.2	6.1	
3	June-,2023	7.1	18	48	8.6	6.0	
4	July -2023	7.6	21	44	6.0	4.8	
5	August,2023	7.5	22	40	5.1	4.4	
6	September,2023	7.2	18	32	BDL	7.2	
	Min.	7.1	13	32	5.1	4.3	
	Max.	7.63	22	48	8.6	7.2	
	Avg.	7.41	18	41	7.0	5.5	

THIRD PARTY ENVIRONMENT MONITORING REPORT OF SEPTEMBER 2023

Ambient Air Quality monitoring report

ALE INS	Accred					a Control B oard for Te			ry (N	JABL) vid	e TC-11	515	(and
	Certified					C) 45001:201		/0.0-07-01-00		171.01.0) 1710			TO
~		1			Te	st Repo	rt						
				1.	1.5		10		10		0 1		1
ULR N	lo.: T (line: Chemical		5	1 Group	5	2 3 spheric Po	0	0	0	0 Sub-Gro	0 1	and the second	
	t Issue Date: 20-0	19-2023		Group	Aune		2010/09/Children		RN-2	3030800		biener ai	
and the second s	le ID: 230915AP0	Contraction of the second s					Contra Program			mbient A			
	in No./P.O. No.: 4		237		_					te: 17-09			
Issue	d to: Dalmia Ceme Plot No IV/A- Bokaro Steel	7(P), Bokar	o Indu	strial A	rea Ba	lidih	Wor	ks)					
Туре	of Industry: Ceme	ent				Custo	mer	Repres	senta	ative: Sa	njeev Ve	erma	
Samp	le Drawn by: IEM	1 Team				Samp	ling D	ate: 13	8-09-	2023 to 3	14-09-2	023	
Proto	col: CPCB Guidelin	ne(NAAQMS	/36/20	12-13) 8	& 15 M	ethod 518	2 Ser	ies					
Samp	ling Location: Nea	ar Main Gate											
Field I	Meteorological In	formation	A. Te	mp. (°C		R.H. (%)		W.C.				D.: NW t	
Samp	le Receiving date:	: 15-09-2023	3	Testin		ted: 15-09		3	Te	sting En	ded: 19-	09-2023	
					Те	st Results-		_	-				1
SI. No.	Parame	ters	1	Test M	ethod	No.		Unit		Norms a NAAQS		R	esults
1.	Particulate Matt	er (PM10)	15	5182 F	Part 23	3:2006	H	ug/m ³		100)		69.8
2.	Particulate Matt	er (PM _{2.5})	15	5 5182 F	Part 24	:2019		ug/m ³		60			28.9
3.	Sulphur Dioxide	e (SO ₂)		IS 518	2 Part	-02		ug/m ³		80			11.4
4.	Nitrogen Dioxid	Second and a second second second		IS 518		12 C. S. C. L. L.		ug/m ³	_	80		1	24.9
5.	Ammonia (NH ₃)	1		IS 518				ug/m°		400			44.5
6.	OZONE (O3)			IS 518				ug/m ³	-	100	1		20.1
7.	ARSENIC (as A	(S)		USEP			-	ng/m ³					(MDL-02
8.	LEAD (as Pb)			IS 518				ug/m ³	-	1.0			0.04
9.	NICKEL (Ni)		_	IS 518				ng/m ³			·	BUL	(MDL-4
(1999-2-2-17-19)		Laborato	ry is m			of Report		ZoC an	d Re	lative Hu	midity	65±5 %	in all
Env.C	ondition of Lab.	testing a							4				
Abbre	viation	MDL: Mir	imum	Detectio	on Lim	it, BDL: B	elow	Detecti	ion l	imit			
Limit	is Specified	As per the	Environ	mental (I	Protect	on) Rule - 1	1986		_	Section -			
Rema	rk	Sample C	omply	with pro	escrib	ed specifi	cation	1.					
Samp pecific C 1. The la 2. This r 3. This r 4. Any c 5. Total	d By: Neema Kuma Ne Drawn By: Rajiv contractual Notes: borstory accepts responsite port shall not be reproduce port is intended for only ge complaint about this report is liability of institute for Envir	Kumar Singl bility for content of ed except in full, w uidance and not fo should be commur onmental Manage	this report. without writt r legal purp icated in w ment will bi	en approval lose or for a riting within e limited to	dvertiser 7 days of involced a	its issue	o SJ	(Shrey	ter	Jel .	Au	thorized	¥
n the bas	e of feedback/ complaints, is of Quality Checked and ' y the Director of the Organi Corporate office	Technical data ver zation.	ified by the	Authonized	signatory			y. Qual	ity M	anager	hand - 8	Dire	ctor
9001:2015		ory Site - H.N Fh - 8407	0. – A-1 B	3, Saket tanchi-8	Vihar, 34002	Near Sohra , Jharkhand	i Bhaw i, India	ran, Hai 4	rmu l	Iousing C			5



Certified by

ISO 9001:2015 (Quality Management System) ISO 45001:2018 (Occupational Health & Safety Management System)

Test Report

Discip	oline: Chemical		Group: Atmo	spheric Po	llution	Sub-Group: A	Ambient Air				
Repor	rt Issue Date: 20-0	9-2023		Test R	eport No.: R	N-230308001A01					
Samp	le ID: 230915AP01	001		Sample Description: Ambient Air							
Challa	an No./P.O. No.: 45	548023834/	237	Challan No./ P.No. Date: 17-09-2022							
ssue	Dalmia Cemer Plot No IV/A-7	(P), Bokar	Limited. (Jharkhan o Industrial Area Ba o-827014 Jharkhan	lidih	Works)						
Type	of Industry: Cemer				mer Repres	entative: Sanjeev	Verma				
Samp	le Drawn by: IEM	Team		Sampl	ing Date: 13	-09-2023 to 14-09	9-2023				
Proto	col: CPCB Guidelin	e(NAAQMS	/36/2012-13) & IS M	ethod 518	2 Series						
Samp	ling Location: Near	r Main Gate		12 4 4 1							
Field I	Meteorological Inf	ormation	A. Temp. (°C): 29	R.H. (%):	62 W.C.:	Sunny	W.D.: NW to SE				
Samp	le Receiving date:	15-09-2023	Testing Star	ted: 15-09	-2023	Testing Ended:	19-09-2023				
			Te:	st Results-							
SI. No.	Paramet	ers	Test Method	No.	Unit	Norms as per NAAQS - 2009					
1.	Benzo (a) Pyren Particulate phase		IS 5182 Part	12	ng/m ³		BDL (MDL-0.18)				
2.	Carbon Monoxid	e (CO)	IEM/SOP/Air-01	:2022	mg/m ³		BDL(MDL-1.8)				
З.	BENZENE (C6H	3)	IS 5182 Part	11	µg/m ³		BDL (MDL- 0.06				
			End	of Report							
Env.C	Condition of Lab.		y is maintaining Ter ea as per IS 196:196		27± 2°C and	1 Relative Humidi	ty 65±5 % in all				
Abbre	eviation	MDL: Min	imum Detection Lim	it, BDL: Be	low Detecti	on Limit					
ADDIE	s** is Specified	National Ar	nbient Air Quality Stand	lards (NAAQ	S), 2009.						
	Service and the service of the servi		mply with prescribe	ad amonific	ation						

Specific Contractual Notes -	Quality Checked by	Authorized Signatory
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On the basis of Quality Checked and Technical data verified by the Authorized signatory, the report is issued by the Director of the Organization.	Dy. Quality Manager	Director
		11
Corporate office - A-8, Modi Heights, OppAll India Radio Sta	ation Ratu Road Ranchi Ibarki	and - 834001



IEM	Accred	lited by JI	arkhand State Pollution ational Accreditation Bo	Control Board ard for Testing	d, JSPCB	ry (NABL) vide TC	-11515
	Certifie	and an and the second sec	60 9001:2015 (QMS) & ISC		- Suborato	((and b) that I C	ТС
			Tes	t Report			1
	lo.: T (C 1 1	5 1 5	2 3 0	0	0 0 0	1 2 1 4
Discip	line: Chemical		Group: Atmos			Sub-Group:	
	t Issue Date: 20-0					N-230308001A02	
	le ID: 230915AP0					n: Ambient Air	
Challa	n No./P.O. No.: 4	548023834/2	.37	Challan N	o./ P.No.	Date: 17-09-202	2
Issue	Dalmia Ceme Plot No IV/A-	7(P), Bokard	Limited. (Jharkhand Industrial Area Bali 0-827014 Jharkhand	dih	rks)		
Type	of Industry: Ceme			In the second se	r Repres	entative: Sanjeev	/ Verma
Contraction of the local distance of the loc	le Drawn by: IEN			Sampling	Date: 13	-09-2023 to 14-09	9-2023
Proto	col: CPCB Guidelin	e(NAAQMS/	36/2012-13) & IS Met	hod 5182 Se	ries		
second to the	ling Location: Nea	and the second sec	discontranscolari				
	Meteorological In	and the second second second second		R.H. (%): 62	ALCO MERCENSIO	Sunny	W.D.: NW to SE
Samp	le Receiving date:	15-09-2023	Testing Starte	in Connect Contraction (1989)	23	Testing Ended:	19-09-2023
			Test	Results			
SI. No.	Parame	ters	Test Method N		Unit	Norms as pe NAAQS - 200	
1.	Particulate Matt		IS 5182 Part 23:2		µg/m³	100	67.9
2.	Particulate Matt		IS 5182 Part 24:2	019	µg/m ³	60	28.5
3.	Sulphur Dioxide		IS 5182 Part-0	2	µg/m ³	80	14.2
4.	Nitrogen Dioxid		IS 5182 Part-0		µg/m ³	80	31.0
5.	Ammonia (NH ₃)		IS 5182 Part 2 IS 5182 Part 0		µg/m ³ µg/m ³	400	17.8
6. 7.	OZONE (O ₃) ARSENIC (as A	c)	USEPAIO. 3.		ng/m ³		BDL (MDL-02
8.	LEAD (as Pb)	.5)	IS 5182 Part 2		µg/m ³	1.0	0.03
9.	NICKEL (Ni)		IS 5182 Part 2		ng/m ³		BDL (MDL-4)
	()			f Report			
Env.C	ondition of Lab.		y is maintaining Temp a as per IS 196:1966	perature 27±	2°C and	Relative Humidi	ty 65±5 % in all
Abbre	viation	and the second property and the second se	mum Detection Limit	(Detectio	n Limit	
Limit	is Specified	As per the E	nvironmental (Protection) Rule - 1986			
Rema	rk	Sample Co	mply with prescribed	specificatio	n.		N
	d By: Neema Kuma Ne Drawn By: Rajiv		& Team				
	ontractual Notes: -	Jillio for seat 1 and	11	(Quality Cl	necked by	Authorized Signator
2. This n 3. This n 4. Any o 5. Total	eport is intended for only guo omplaint about this report s liability of Institute for Enviro	ed except in full, with uidance and not for l hould be communic conmental Managem	hout written approval of the MD. legal purpose or for advertisemen ated in writing within 7 days of its ent will be limited to involced amo	issue 🔍	Show	renter of	- FF
the bas	is of Quality Checked and T	echnical data verific	all at <u>gm.iemeco@gmail.com</u> ad by the Authorized signatory, th	e report E	(Shreya)y. Quality	y Manager	Director
ISSUED D)	the Director of the Organiz		leights, OppAll India R	¥.		Tamt	ý –
			 A-13, Saket Vihar, N Ranchi-834002, J 	ear Sohrai Bha	awan, Har	Contraction of the second second	





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ISO 9001:2015 (Quality Management System) ISO 45001:2018 (Occupational Health & Safety Management System)

Test Report

Discip	line: Chemical		Group: Atmo	spheric	Pollutio	n	Sub-Group:	Ambient Air		
	t Issue Date: 20-09	9-2023		Test Report No.: RN-230308001A02						
Samp	le ID: 230915AP01	002		Sar	nple Des	criptio	n: Ambient Air			
	an No./P.O. No.: 45	and the second state of th	37	Cha	llan No.	/ P.No	Date: 17-09-202	2		
ssue	Dalmia Cemer Plot No IV/A-7	(P), Bokaro	imited. (Jharkhan Industrial Area Ba -827014 Jharkhan	lidih d India						
Гуре	of Industry: Cemer			Cu			entative: Sanjeev			
Samp	le Drawn by: IEM	Team		Sar	npling D	ate: 13	-09-2023 to 14-0	9-2023		
Proto	col: CPCB Guidelin	e(NAAQMS/3	6/2012-13) & IS M	ethod 5	182 Seri	es				
	ling Location: Nea			135-5						
	Meteorological Inf		A. Temp. (°C): 29	R.H. (9	6): 62	W.C.:	Sunny	W.D.: NW to SE		
Sample Receiving date: 15-09-2023 Testing Starte					-09-2023	1	Testing Ended:	19-09-2023		
			Te	st Resul	ts					
SI. No.	Paramet	ers	Test Method	No.		Jnit	Norms as pe NAAQS - 200			
1.	Benzo (a) Pyren Particulate phase		IS 5182 Part	12	2 ng/m ³		****	BDL (MDL-0.18)		
2.	Carbon Monoxid		IEM/SOP/Air-01	:2022	m	ig/m ³		BDL(MDL-1.8)		
3.	BENZENE (C6H	5)	IS 5182 Part	11	μ	g/m ³		BDL (MDL- 0.06)		
				of Rep						
Env.C	Condition of Lab.	testing area	is maintaining Te as per IS 196:19	56(C).				ity 65±5 % in all		
Abbre	eviation	MDL: Minin	num Detection Lin	it, BDL	Below	Detecti	on Limit			
Norm	s** is Specified	National Amb	ient Air Quality Stand	lards (N/	AQS), 20	09.		- 10 Mar		
Rema	irk	Sample Con	nply with prescrib	ed spec	ification					

Tested By:Neema Kumari

Sample Drawn By:Rajiv Kumar Singh & Team

Specific Contractual Notes -	Quality Checked by	Authorized Signatory
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 In case of feedback/ complaints, please send an email at <u>gm.iemecc@gmail.com</u> On the basis of Quality Checked and Technical data verified by the Authorized signatory, the report 	1	5 × 11
is issued by the Director of the Organization.	Dy. Quality Manager	Director
		R
Corporate office - A-8, Modi Heights, OppAll India Radio Sta	tion, Ratu Road, Ranchi, Jharkl	nand - 834001





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 Jharkhand State Pollution Control Board, JSPCB National Accreditation Board for Testing Laboratory (NABL) vide TC-11515

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 ISO 9001:2015 (QMS) & ISO 45001:2018



Test Report

arat) Limited. (Jharkhand Cement Works) bkaro Industrial Area Balidih okaro-827014 Jharkhand India Customer Representative: Sanjeev Verma Sampling Date: 13-09-2023 to 14-09-2023 QMS/36/2012-13) & IS Method 5182 Series n Tippler on A. Temp. (*C): 29 R.H. (%): 62 W.C.: Sunny W.D.: NW to SE 2023 Testing Started: 15-09-2023 Testing Ended: 19-09-2023 Test Results Test Method No. Unit Norms as per NAAQS - 2009 Results a) IS 5182 Part 23:2006 µg/m ³ 100 65.2	ULKIN	lo.:	T	C	1	1	5	1	5	2	3	0	0	0	0	0	1	2	1	6
Sample Description: Ambient AirBaddian No./ P.No. Date: 17-09-2022Arat) Limited. (Jharkhand Cement Works) skaro Industrial Area Balidih okaro-827014 Jharkhand IndiaCustomer Representative: Sanjeev Verma Sampling Date: 13-09-2023 to 14-09-2023QMS/36/2012-13) & IS Method S182 Seriesn Tippler onA. Temp. (*C): 29R.H. (%): 62W.C.: SunnyW.D.: NW to SE2023Testing Started: 15-09-2023Testing Started: 15-09-2023Testing Ended: 19-09-2023Test ResultsVolspan="2">Test Method No.UnitNorms as per NAAQS - 2009ResultsaTest ResultsVolspan="2">I S 5182 Part 23:2006 $\mu g/m^3$ 10066.2a)IS 5182 Part 24:2019 $\mu g/m^3$ BOL Sise Part 22:2006 $\mu g/m^3$ I S 5182 Part 22:2006 $\mu g/m^3$ Bas 5182 Part 22:2006Bas 5182 Part 22:2006I S 5182 Part 22:2006I S 5182 Part 23:2006J Morms as per NAAQS - 2009ResultsI S 5182 Part 23:2006J Mg/m³I S 5182 Part 23:2006J Mg/m³I S 5182 Part 22:2006J Mg/m³I S 5182 Part 22:2	Discip	line: Chemio	cal				Gr	oup:	Atmos	sphe	ric Pollu	tion		Su	b-Grou	ip: Ar	mbier	nt Air		
Challan No./ P.No. Date: 17-09-2022 trat) Limited. (Jharkhand Cement Works) skaro Industrial Area Balidih okaro Industrial Area Balidih customer Representative: Sanjeev Verma Sampling Date: 13-09-2023 to 14-09-2023 QMS/36/2012-13) & IS Method 5182 Series n Tippler on A. Temp. (*C): 29 R.H. (%): 62 W.C.: Sunny W.D.: NW to SE 2023 Testing Ended: 19-09-2023 Testing Started: 15-09-2023 Testing Ended: 19-09-2023 Test Results Test Method No. Unit Norms as per NAQS - 2009 Results o) IS 5182 Part 23:2006 µg/m ³ 60 30.9 IS 5182 Part 23:2006 µg/m ³ Norms as per NAQS - 2009 Results o) IS 5182 Part 23:2006 µg/m ³ 30.0 30.9 IS 5182 Part 20:2 <th< td=""><td>Repor</td><td>rt Issue Date</td><td>: 20-0</td><td>9-202</td><td>23</td><td></td><td></td><td></td><td></td><td>Т</td><td>est Rep</td><td>ort No</td><td>.: RN</td><td>-2303</td><td>08001</td><td>A04</td><td></td><td></td><td></td><td></td></th<>	Repor	rt Issue Date	: 20-0	9-202	23					Т	est Rep	ort No	.: RN	-2303	08001	A04				
arat) Limited. (Jharkhand Cement Works) bkaro Industrial Area Balidih okaro-827014 Jharkhand India Customer Representative: Sanjeev Verma Sampling Date: 13-09-2023 to 14-09-2023 QMS/36/2012-13] & IS Method 5182 Series n Tippler on A. Temp. (°C): 29 R.H. (%): 62 W.C.: Sunny W.D.: NW to SE 2023 Testing Started: 15-09-2023 Testing Ended: 19-09-2023 Test Results Test Method No. Unit Norms as per NAAQS - 2009 Results Test Results Test Method No. Unit Norms as per NAAQS - 2009 Results Test Results Test Method No. Unit Norms as per NAAQS - 2009 Results Test Results S 5182 Part 23:2006 µg/m ³ 100 66.2 s) IS 5182 Part 24:2019 µg/m ³ 80 13.5 IS 5182 Part 24:2019 µg/m ³ 80 25.0 IS 5182 Part 25 µg/m ³ 400 34.8 IS 5182 Part 25 µg/m ³ 100 33.9 USEPA I.O. 3.2 ng/m ³ BDL (MDL-02) IS 5182 Part 26 ng/m ³ BDL (MDL-02) IS 5182 Part 26 ng/m ³ BDL (MDL-4) End of Report ratory is maintaining Temperature 27± 2°C and Relative Humidity 65±5 % in all ng area as per IS 196:1966(C). Minimum Detection Limit, BDL: Below Detection Limit	Sampl	le ID: 230915	AP01	004						S	ample (Descri	otion	Amb	ient Ai	ir				
Observe Server S	Challa	an No./P.O.	No.: 4	5480	23834	/237				C	hallan I	No./P	No. I	Date:	17-09-	2022				
Customer Representative: Sanjeev Verma Sampling Date: 13-09-2023 to 14-09-2023 QMS/36/2012-13) & IS Method 5182 Series Im Tippler on A. Temp. (*C): 29 R.H. (%): 62 W.C.: Sunny W.D.: NW to SE colspan="2">Testing Started: 15-09-2023 Testing Ended: 19-09-2023 Test Method No. Unit Norms as per NAAQS - 2009 Results On IS 5182 Part 23:2006 µg/m ³ 100 65.2 IS 5182 Part 23:2006 µg/m ³ Norms as per NAAQS - 2009 Results IS 5182 Part 23:2006 µg/m ³ 100 65.2 a) IS 5182 Part 23:2006 µg/m ³ 80 33.9 IS 5182 Part 22:206 µg/m ³ 80 33.9 33.9 33.9 33.9 33.9 33.9 33.9 % <t< td=""><td>Issue</td><td>Dalmia Plot No</td><td>IV/A-</td><td>7(P),</td><td>Boka</td><td>ro Ind</td><td>ustri</td><td>al Ar</td><td>ea Bal</td><td>idih</td><td></td><td>orks)</td><td></td><td>ſ.</td><td></td><td></td><td></td><td></td><td></td><td></td></t<>	Issue	Dalmia Plot No	IV/A-	7(P),	Boka	ro Ind	ustri	al Ar	ea Bal	idih		orks)		ſ.						
QMS/36/2012-13) & IS Method 5182 Series n Tippler on A. Temp. (*C): 29 R.H. (%): 62 W.C.: Sunny W.D.: NW to SE 2023 Testing Started: 15-09-2023 Testing Ended: 19-09-2023 Testing Started: 15-09-2023 Testing Ended: 19-09-2023 Colspan="2">Testing Ended: 19-09-2023 Test Method No. Unit Norms as per NAAQS - 2009 Results 0) IS 5182 Part 23:2006 µg/m ³ 100 65.2 6) IS 5182 Part 24:2019 µg/m ³ 60 30.9 1S 5182 Part 24:2019 µg/m ³ 80 13.5 1S 5182 Part-02 µg/m ³ 80 25.0 1S 5182 Part 25 µg/m ³ 400 34.8 1S 5182 Part 26 µg/m ³ 100 33.9 USEPA I.O. 3.2 ng/m ³ BDL (MDL-02) 1S 5182 Part 26 ng/m ³ BDL (MDL-04) End of Report Test of Report Test of Report Test of Report Test of	Type (of Industry:	11.20									er Rep	rese	ntativ	e: San	jeev \	Verma	3		
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Image: Constraint of the second state of t	Concernant and the	le Receiving		an ere a sere	Starfing and the	Concerner and the second									1			100000		
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USEPA I.O. 3.2 ng/m ³ BDL (MDL-02) IS 5182 Part 22 µg/m ³ 1.0 0.04 IS 5182 Part 26 ng/m ³ BDL (MDL-4) End of Report ratory is maintaining Temperature 27± 2°C and Relative Humidity 65±5 % in all garea as per IS 196:1966(C). Minimum Detection Limit, BDL: Below Detection Limit Imit	5.	Ammonia	(NH ₃)				IS	5182	Part 2	25					400				1071	
IS 5182 Part 22 µg/m³ 1.0 0.04 IS 5182 Part 26 ng/m³ BDL (MDL-4) End of Report ratory is maintaining Temperature 27± 2°C and Relative Humidity 65±5 % in all garea as per IS 196:1966(C). Minimum Detection Limit, BDL: Below Detection Limit	6.	OZONE (C	D ₃)				IS	5182	Part C	9		ug/m ³			100			33	.9	
IS 5182 Part 26 ng/m ³ BDL (MDL-4) End of Report ratory is maintaining Temperature 27± 2°C and Relative Humidity 65±5 % in all area as per IS 196:1966(C). Minimum Detection Limit, BDL: Below Detection Limit	7.	ARSENIC	(as A	s)			US	SEPA	1.0. 3	.2							B	DL (M	DL-02)
End of Report ratory is maintaining Temperature 27± 2°C and Relative Humidity 65±5 % in all g area as per IS 196:1966(C). Minimum Detection Limit, BDL: Below Detection Limit	8.	LEAD (as	Pb)				IS	5182	Part 2	22					1.0			0.0)4	
atory is maintaining Temperature 27± 2°C and Relative Humidity 65±5 % in all g area as per IS 196:1966(C). Minimum Detection Limit, BDL: Below Detection Limit	9.	NICKEL (N	Ni)				IS	5182	Part 2	26	4	ng/m ³					B	DL (N	1DL-4)	
g area as per IS 196:1966(C). Minimum Detection Limit, BDL: Below Detection Limit									End o	of Re	port									
		ondition of	Lab.	tes	ting a	rea as	per	IS 19	6:1966	5(C).						nidity	65±5	5 % in	all	
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				-		and the second second second			The Contract of the			1	_							
le Comply with prescribed specification.	Rema	rk	_	San	nple (omply	with	h pre	scribed	d spe	ecificati	on.								
		ole Drawn By:		Kuma	ir Sing	h & Tea	am					0	C							
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Quality Checked by Monthe Autoprized Signatory	 This n Any a 	eport is intended for omplaint about this	or only ga report s	uidance a should be	and not fi	or legal pu nicated in	writing	or for ad within 7	vertiseme days of its	s issue		Sha	A	1		e,	Nanagen	R	\$	
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the Environmental (Protection) Rule - 1986 le Comply with prescribed specification.	Env.C Abbre Limit Rema Teste Samp	Condition of eviation is Specified rk ad By: Neema ole Drawn By:	Lab. Kuma : Rajiv	tes MD Asp San	ting a DL: Min per the nple C	rea as nimum Enviro Comply	naint per Dete nmen with	 tainir IS 19 ection tal (Pr	End o ng Tem 6:1966 n Limit rotectio	pera 5(C). t, BD n) Ru	ture 27 L: Belov le - 1986	± 2°C w Dete 5 on.	ection	telati Limi	ve Hun t		65±		5 % in	5 % in all
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inch & Team	pecific Co 1. The la 2. This n 3. This n 4. Any o 5. Total l	ontractual Notes: aboratory accepts r eport sintended for omplaint about this liability of Institute I	esponsit eproduc or only go report s for Envin	bility for c ed excep uidance a should be onmenta	content o ot in full, v and not fi e commu	f this repo without wr or legal po nicated in ament will	ort. nitten ap urpose (writing be limit	or for ad within 7 ted to in	days of its voiced am	s issue		Sha	eye	off.		Ind A	Managen	R	J.	זרי
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Institute for Environmental Management Accredited by Jharkhand State Pollution Control Board, JSPCB

Certified by

ISO 9001:2015 (Quality Management System) ISO 45001:2018 (Occupational Health & Safety Management System)



Test Report

Discip	oline: Chemical		Group: Atmo	ospheric Pollut	tion	Sub	-Group: An	nbient Air
Repo	rt Issue Date: 20-0	9-2023		Test Repo	ort No.: F	RN-23030	8001A04	
Samp	le ID: 230915AP01	004		Sample D	escriptio	on: Ambie	ent Air	
Challa	an No./P.O. No.: 4	548023834/2	237	Challan N	lo./ P.No	Date: 1	7-09-2022	
lssue	Dalmia Ceme Plot No IV/A-	7(P), Bokard	Limited. (Jharkhan Industrial Area Ba o-827014 Jharkhan	alidih	orks)			
Туре	of Industry: Ceme	nt		Custome	r Repres	sentative	: Sanjeev V	erma
Samp	ble Drawn by: IEN	1 Team		Sampling	Date: 13	8-09-2023	8 to 14-09-2	023
Proto	col: CPCB Guidelin	e(NAAQMS/	36/2012-13) & IS M	ethod 5182 Se	eries			
Samp	ling Location: Nea	r Wagon Tip	pler					
Field	Meteorological In	formation	A. Temp. (°C): 29	R.H. (%): 62	W.C.: !	Sunny	W.D.: NV	/ to SE
Samp	le Receiving date:	15-09-2023	Testing Star	ted: 15-09-20	23	Testing	Ended: 19	-09-2023
			Te:	st Results				
SI. No.	Paramet	ters	Test Method	No.	Unit		ns as per QS - 2009	Results
1.	Benzo (a) Pyrer Particulate phas		IS 5182 Part	12	ng/m ³			BDL (MDL-0.18)
2.	Carbon Monoxid	de (CO)	IEM/SOP/Air-01		mg/m ³			BDL(MDL-1.8)
3.	BENZENE (C6H	6)	IS 5182 Part		µg/m ³			BDL (MDL- 0.06)
			End	of Report				
Env.C	Condition of Lab.		y is maintaining Ter a as per 1S 196:196		± 2°C and	l Relative	e Humidity	65±5 % in all
Abbre	eviation	MDL: Mini	mum Detection Lim	it, BDL: Below	v Detecti	on Limit		
Norm	s** is Specified	National Am	bient Air Quality Stand	lards (NAAQS), 2	009.			Land Street
Rema	rk	Sample Co	mply with prescribe	ed specificatio	on.			

Tested By:Neema Kumari

Sample Drawn By:Rajiv Kumar Singh & Team

Specific Contractual Notes: -	Quality Checked by onthe Authorized Signatory
The laboratory accepts responsibility for content of this report. This report shall not be reproduced except in full, without written approval of the MD. This report is intended for only guidance and not for legal purpose or for advertisement. Any complaint about this report should be communicated in writing within 7 days of its issue Total liability of Institute for Environmental Management will be limited to invoiced amount only.	Shape
 for a native of the state of complaints, please send an email at <u>om lemeco@gmail.com</u> 	(Shreya Sonah) (Shreya Sonah)
On the basis of Quality Checked and Technical data verified by the Authorized signatory, the report is issued by the Director of the Organization.	Dy. Quality Manager Renth * Director



Corporate office - A-8, Modi Heights, Opp.-All India Radio Station, Ratu Road, Ranchi, Jharkhand - 834001 Laboratory Site - H.No. – A-13, Saket Vihar, Near Sohrai Bhawan, Harmu Housing Colony, Ranchi-834002, Jharkhand, India Ph - 8407804254, 8407804251, Email - iem2012@rediffmail.com



STACK EMISSION REPORT



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yy Jharkhand State Pollution Control Board, JSPCB National Accreditation Board for Testing Laboratory (NABL) vide TC-11515 ISO 9001:2015 (QMS) & ISO 45001:2018



Test Report

ULR No.:	: T C	1 1	5	1	5 2	3 0	0	0	0 0) 1	2	3	3
Disciplin	e: Chemical			Grou	ip: Atmosp	he <mark>ric P</mark> ollu	ition	9	Sub-Grou	p: Stack	Emiss	ion	
Report Is	ssue Date: 20-0	9-2023				Test Re	eport No	.: RM	1-230308	00151			
Sample I	D: 230915AP04	001				Sample	e Descri	ption	: Stack E	mission			
Challan I	No./P.O. No.: 4	548023834/	237			Challar	No./P	No.	Date: 17	-09-202	2		
issued t	o: Dalmia Ceme Plot No IV/A-7 Bokaro Steel	(P), Bokar	o Indus	trial Are	ea Balidih		(S)						
Type of I	ndustry: Cemer	and the second se				210-02	ner Rep	rese	entative:	Sanjeev	Verm	а	
Sample	Drawn by: IEM	Team	The second		at.		ng Date	Constant of the second	State of the state of the				
Protocol	: CPCB Guidelin	e (LATS/80/	2013-14	4) & IS N	Aethod 112	55 Series							
Field Me	teorological Inf	ormation	A. Ter	np. (°C):	28 R.H	. (%): 64	W.C.	: Sun	ny	W.D	.: Nort	h to S	outh
Sample F	Receiving date:	15-09-2023		Testing	Started:1	5-09-2023		Te	esting En	ded: 19	-09-20	23	
				Gei	neral Physical	Information		1	•				
Stack Id	entification	BAG HO	JSE MIL	L.	Stack Hei	ght from (Ground	Leve	l (m)	50)		
Emission	n Due to	Induction	n Furna	ce	Port Hole	Height fr	om Gro	und L	evel (m)	30)		
Plat For	m	Permane	ent		Inner Din	nension of	Stack (m)		3.	7		
Stack De	escription	Commor	n -		Type of F	uel Used				El	ectricit	у	
Shape of	f Stack	Circular			Quantity	of Fuel				-			
Construe	ction Material	Metal			Productio	on Capacit	у			-			
Samplin	g Port	Available	2		Pollution	Control D	evice (if	fany)	Ba	g Filte	r	
					Test Res	ult							_
SI. NO.	Para	meters		Test	Methods	U	nit	1	Resu	lt		Limit	s
1.	Flue Gas Tem	perature		IS 112	55 (Part-3)	Ϋ́K		369				
2.	Flue Gas Velo	city		IS 112	55 (Part-3) n	n/s		13.5	;			
3.	Flue Gas Volu	metric Flow	Rate	IS 112	55 (Part-3	Nm	³ /hr.		40976	7.4			
4.	Particulates N	latter (PM)		IS 112	255 (Part-1	mg/	/Nm ³		18.6	5			
Dust					Kg/hr					7.6			
					End of Re	port							_
Env. Cor	dition of Lab.	Laboratory is 196:1966(C).	maintain		erature 27± 2		ve Humidi	ity 65:	±5 % in all t	esting are	a as per	15	
Abbrevia		and the second se	Contraction of the Contractal	And the second second second second	t, BDL: Belo			-	9				
Limit is : Remark	Specified	and the second se		and the second second second second second	l (Protecti cribed spe	and the second se	Contraction and the second						
tomark.		sample co	inpiy w	ien pres	seribeu spe	ciricación.							

Sample Drawn By: Rajiv Kumar Singh & Team

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 6. In case of feedback/ complaints, please send an email at gmiemeox@gmail.com
 (Shreya Sonal) 1

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

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

Laboratory Site - H.No. - A-13, Saket Vihar, Near Sohrai Bhawan, Harmu Housing Colony, Ranchi-834002, Jharkhand, India Fh - 8407804253, 8407804251, Email - iem2012@rediffmail.com

ISO 9001:2015 ISO 45001:2018

STP INLET & OUTLET WATER ANALYSIS REPORT



Institute for Environmental Management Accredited by Jharkhand State Pollution Control Board, JSPCB





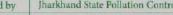
ISO 9001:2015 (Quality Management System) ISO 45001:2018 (Occupational Health & Safety Management System)

Test Report

200 H	ne: Chemical		up: Poll	ution & Env		Sub-Group: Waste	al sector provide a sector of the
Report I	ssue Date: 16-09	9-2023			Test Report No	.: RN-230308001WW	/01
Sample	ID: 230914PE01	001			Sample Descri	otion: Waste Water (S	STP)
Challan	No./P.O. No.: 45	548023834/237			Challan No./ P	.No. Date: 17-09-2022	2
Issued t	Dalmia Ceme Plot No IV/A-	ent (Bharat) Limi 7(P), Bokaro Ind I City, Bokaro-82	lustrial	Area Balid	ih		
Type of	Industry: Cemer			indirina i	and the second se	entative: Sanjeev Ve	rma
	Drawn by: IEM 7				Sampling Date: 13	the second s	
	the second s	e & IS Method 30	25 Part	-01			
		R STP PLANT (INI					
	Receiving date:			ing Started:	14-09-2023	Testing Ended: 16-09	9-2023
- ann pre	auter			Test R	Constraints and the second	and a state of the	
SI. No.	Teste	d Parameters		Unit	Method No.	Norms**	Results
1.	pH value at 25°	°C			IS 3025 (Part-11)		8.0
2.	Total Suspende	and the second se		mg/l	IS 3025 (Part-17)	-22	48
3.		kygen Demand (B	OD)	mg/l	IS 3025 (Part-44)		16.0
4.		en Demand (COD		mg/l	IS 3025 (Part-58)		96.0
5.	Oil & Grease			mg/l	IS 3025 (Part-39)		39.6
				End of F			
	y: Amisha Kumari Drawn By: Deepak	Kumar Singh & Tea	am				
1. The labor 2. This repo 3. This repo 4. Any comp 5. Total llab 6. In case o n the basis o	In shall not be reproduced int is intended for only guil plaint about this report sha ality of Institute for Enviror I feedback/ complaints, p f Quality Checked and Te e Director of the Organize		tten approva rpose or for writing within be limited to <u>liemeco(@g</u> e Authorized	advertisement. n 7 days of its issu- invoiced amount mail.com d signatory, the re	aport Dy. Quality	Sonal)	pr. S. C. Jain) Director



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Test Report

Discipli	ne: Chemical	Group	: Pollution & Er	nvironment	Sub-Group: Was	ste Water
Report	Issue Date: 16-09	9-2023		Test Report No	.: RN-230308001W	W02
Sample	ID: 230914PE01	002		Sample Descri	ption: Waste Water	(STP)
Challan	No./P.O. No.: 45	48023834/237		Challan No./ P	.No. Date: 17-09-20	122
Issued	Dalmia Ceme Plot No IV/A-	ent (Bharat) Limite 7(P), Bokaro Indus I City, Bokaro-827	strial Area Bali	dih		
Type of	Industry: Cemer	nt		Customer Repres	sentative: Sanjeev V	/erma
Sample	Drawn by: IEM T	ſeam		Sampling Date: 13	3-09-2023	
Protoco	I: CPCB Guideline	& IS Method 3025	6 Part-01			
Samplin	g Location: NEA	R STP PLANT (OUTI	_ET)			
Sample	Receiving date:	14-09-2023	Testing Starte	d: 14-09-2023	Testing Ended: 16-	09-2023
			Test	Result		
SI. No.	Tester	d Parameters	Unit	Method No.	Norms**	Results
1.	pH value at 25°	C		IS 3025 (Part-11)	5.5 to 9.0	7.21
2.	Total Suspende	d Solids (TSS)	mg/l	IS 3025 (Part-17)	100	18.0
3.	Biochemical Ox	ygen Demand (BOI	D) mg/l	IS 3025 (Part-44)	30	BDL(MDL 0.2)
4.	Chemical Oxyge	en Demand (COD)	mg/l	IS 3025 (Part-58)	250	32.0
5.	Oil & Grease		mg/l	IS 3025 (Part-39)	10	7.2
			End of	Report		
Env. Co	ndition of Lab.	Laboratory is ma testing area as p		perature 27± 2°C and (C).	l Relative Humidity	65±5 % in all
Abbrevi		and a second day for private the state in the strength of the state of	the second s	, BDL: Below Detection I	Limit	
	is Specified			ection) Rule - 1986		
Remark		Sample Comply	with prescribed	specification.		

Tested By: Amisha Kumari

Sample Drawn By: Deepak Kumar Singh & Team

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On the basis of Quality Checked and Technical data verified by the Authorized signatory, the report is issued by the Director of the Organization.	Dy. Quality Manage * Ranch Director
Corporate office - A-8, Modi Heights, OppAll India Radio Statio	on, Ratu Road, Ranchi, Jharkhand - 834001
Laboratory Site - H.No. – A-13, Saket Vihar, Near Sohrai Ranchi-834002, Jharkhand Ph - 8407804254, 8407804251, Email - ien	, India

Fugitive Dust Emission report

	Accieu	ited by J	harkhand State	Pollution Co	ntrol Board	JSPCB		
- Per	Certifie		SO 9001:2015 (Q SO 45001:2018 (0				nt System)	
			ao 1200122018 ((Report	cy istantigente	in ayateid J	
				i abe i				
and the state of t	e: Chemical	Contraction of the second s	up: Atmosphe		and the second sec	the second s		ent & Indoor Air
	sue Date: 20-0						-230308001FE	
and the second sec	D: 230915AP0		(007			and the second s	Fugitive Emis	
ssued to	lo./P.O. No.: 4	548023834	1231		Challan N	0./ P.NO. L	Date: 17-09-20	22
	Plot No IV/A-	7(P), Bokar	Limited. (Jha ro Industrial A ro-827014 Jh	Area Balidit	1	rks)		
	ndustry: Ceme				and the second se		ntative: Sanjee	ev Verma
	Drawn by: IEM					Date: 14-0	9-2023	
and the second se	CPCB Guidelir	and the second	And the second designed and the second designed as the	& IS Metho	d 5182 Se	ries		
	Location: Nea teorological In		A. Temp. (°C	1.28 PH	(%): 65	W.C.: 5	unov	W.D.: NW to SE
	eceiving date:			ng Started:	the second s		Testing Ended	
	B acte		1.000	Test Re		-		
SI. No.		Parameter	s	Test Met		Unit	Limit	Results
1.	Suspended I			IS 5182		µg/m ³		1005.6
1.	- ouspended i	entiquiate n		End of R		pg/m	2000	1000.0
Env.Con	dition of Lab.			ing Temper	ature 27±	2°C and R	elative Humid	ity 65±5 % in all
Abbrevia		testing a	rea as per IS 1 num Detection L	96:1966[C]). Inw Detection	n Limit		
	Specified	The supervised of the second states	R. 414 (E), Dated					
Remark			omply with th			ion.		
Sample D	Drawn By: Rajiv	Kumar Singl	n & Team					
ecific Contra The labora This report	ctual Notes: - fory accepts responsit	bility for content of	This report.	al of the MD.		Quality Che	cked by	Authorized Signator
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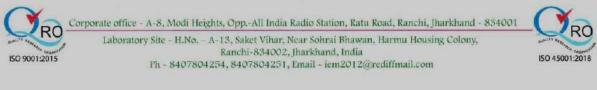
Test Report

Discipline	e: Chemical	Grou	p: Atmosph	eric Pollution	Sub-C	Group: V	Vork	Environme	ent & Indoor Air
Report Is	sue Date: 20-0	9-2023		Te	est Report	t No.: RI	V-230	308001FE	03
Sample I	D: 230915AP02	003		Sa	mple Des	scription	n: Fug	itive Emis	sion
Challan N	No./P.O. No.: 4	548023834/	237	C	hallan No.	/ P.No.	Date	: 17-09-20	22
Issued to	Dalmia Ceme Plot No IV/A-	(P), Bokard	o Industrial	harkhand Cem Area Balidih harkhand Indi		(5)	5		
Type of I	ndustry: Ceme	nt		C	ustomer	Represe	entati	ve: Sanjee	ev Verma
Sample I	Drawn by: IEM	Team		Sa	ampling D	ate: 14-	09-20	023	
Protocol	CPCB Guidelin	e(NAAQMS	/36/2012-13) & IS Method	5182 Seri	es			
Sampling	Location: Nea	r Mill Area							
Field Me	teorological Int	formation	A. Temp. (°C): 28 R.H. (%): 65	W.C.:	Sunn	y	W.D.: NW to SE
Sample R	Receiving date:	15-09-2023	Test	ting Started: 1	5-09-2023	3	Test	ing Ended	: 19-09-2023
				Test Resu	ults				
SI. No.		Parameters		Test Meth	nod No.	Uni	t	Limit	Results
1.	Suspended F	Perticulate M	latter (SPM)	IS 5182 P	art - 04	µg/n	n ³	2000	1058.4
				End of Re	port				
Env.Con	dition of Lab.			ning Tempera 196:1966(C).	ture 27± 2	2°C and	Relat	ive Humid	ity 65±5 % in all
Abbrevia	tion	MDL: Minim	um Detection	Limit, BDL: Below	v Detection	Limit			
Limit is	Specified	As Per G.S.H	R. 414 (E), Date	ed 30 th May 2008					
LIMIT 13 .									

Tested By: Neema Kumari

Sample Drawn By: Rajiv Kumar Singh & Team

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6. In case of feedback/ complaints, please send an email at <u>gm.iemeco@gmail.com</u>	(Shreya Sona)	Dr. S. C. Jain)
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Test Report

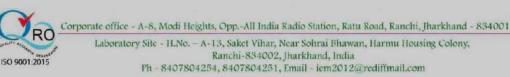
Discipline	e: Chemical	Grou	ip: Atm	nospheric Po	ollution	Sub-G	iroup: '	Work E	nvironme	nt & Indoor Air
Report Is	sue Date: 20-0	9-2023			Test R	eport	No.: R	N-2303	308001FE0	01
Sample I	D: 230915AP020	001			Sampl	e Des	criptio	n: Fugi	tive Emiss	ion
Challan N	No./P.O. No.: 4	548023834/	237		Challa	n No.	P.No	Date:	17-09-202	22
Issued to	Dalmia Ceme Plot No IV/A- Bokaro Steel	7(P), Bokard	o Indus	strial Area I	Balidih	Work	s)			
Type of I	ndustry: Ceme	nt			Custo	mer F	Repres	entativ	e: Sanjee	v Verma
Sample I	Drawn by: IEM	Team			Sampl	ing Da	ate: 14	-09-20	23	
Protocol	CPCB Guidelin	e(NAAQMS	36/20	12-13) & IS	Method 5182	2 Serie	es			
Sampling	Location: Truc	k Parking A	rea							
Field Me	teorological Int	formation	A. Te	mp. (°C): 28	R.H. (%): 65	;	W.C.:	Sunny		W.D.: NW to SE
Sample R	eceiving date:	15-09-2023		Testing St	arted: 15-09	-2023		Testi	ng Ended:	19-09-2023
				7	est Results					
SI. No.		Parameters	1	Т	est Method N	No.	U	nit	Limit	Results
1.	Suspended F	Perticulate M	atter (S	SPM) IS	5182 Part -	04	ha	/m ³	2000	1167.3
				Er	nd of Report-					
Env.Con	dition of Lab.			intaining T er IS 196:1		27± 2	°C and	Relati	ve Humidi	ity 65±5 % in all
Abbrevia	tion	MDL: Minim	um Dete	ection Limit, B	DL: Below Det	action	Limit			
Limit is \$	Specified	As Per G.S.F	. 414 (E), Dated 30th	May 2008.					
Remark		Sample co	malers	with the pro	scribed spef	inatio	11 C			

Tested By: Neema Kumari

Sample Drawn By: Rajiv Kumar Singh & Team

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Test Report

Discipline	e: Chemical	Group: Atmospheric Polluti			ution Sub	ion Sub-Group: Work Environment & Indoor Air					
Report Is	t Issue Date: 20-09-2023				Test Report No.: RN-230308001FE02						
Sample ID: 230915AP02002					Sample Description: Fugitive Emission						
Challan No./P.O. No.: 4548023834/237					Challan No./ P.No. Date: 17-09-2022						
Issued to	o: Dalmia Ceme Plot No IV/A-7 Bokaro Steel	(P), Bokar	o Industrial A	rea Ba	lidih d India		í,				
Type of Industry: Cement					Customer Representative: Sanjeev Verma						
Sample Drawn by: IEM Team					Sampling Date: 14-09-2023						
Protocol:	CPCB Guidelin	e(NAAQMS	/36/2012-13)	& IS M	ethod 5182 Se	ries					
Sampling	Location: Nea	r Clinker Silo	o(Raw materia	l yard)							
Field Me	teorological Inf	formation	A. Temp. (°C): 28	R.H. (%): 65	W.C.	Sunn	Y	W.D.: NW to SE		
Sample R	ample Receiving date: 15-09-2023 Testing Start				ted: 15-09-20	23	Testing Ended: 19-09-2023				
				Tes	t Results						
SI. No.	Parameters			Test Method No.		Unit		Limit	Results		
1.	Suspended F	Perticulate Matter (SPM)			IS 5182 Part - 04		n ³	2000	997.9		
	1			End	of Report						
Env.Con	dition of Lab.		ry is maintain ea as per IS 1			2°C and	Rela	tive Humid	ity 65±5 % in all		
Abbrevia	tion	MDL: Minimum Detection Limit, BDL: Below Detection Limit									
Limit is a	Specified	As Per G.S.R. 414 (E), Dated 30th May 2008.									
Remark		Sample comply with the prescribed spefication.									

Tested By: Neema Kumari

Sample Drawn By: Rajiv Kumar Singh & Team

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 In case of recount comparing, prease series an entering a <u>gradientecount relation</u> the basis of Quality Checked and Technical data verified by the Authorized signatory, the report issued by the Director of the Organization. 	Dy. Quality Manager Rano Director				

Ranchi-834002, Jharkhand, India

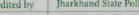
Ph - 8407804254, 8407804251, Email - icm2012@rediffmail.com

150 45001:2018

Work place monitoring report







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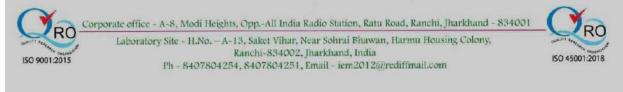
Test Report

Disciplin	e: Chemical	Group: Atmospheric Polluti			ution Su	ion Sub-Group: Work Environment & Indoor Air					
Report Issue Date: 20-09-2023					Test Report No.: RN-230308001WPM02						
Sample ID: 230915AP02009					Sample Description: Work Zone						
Challan N	No./P.O. No.: 4	548023834/	237	Challan No./ P.No. Date: 17-09-2022							
Issued to	o: Dalmia Ceme Plot No IV/A-3 Bokaro Steel	(P), Bokar	o Industrial A	rea Ba	lidih	orks)					
Type of Industry: Cement					Custom	Customer Representative: Sanjeev Verma					
Sample Drawn by: IEM Team				Samplin	g Date: 1	5-09-2	023				
Protocol	: CPCB Guidelin	e(NAAQMS	/36/2012-13)	& IS M	ethod 5182 S	eries					
Sampling	Location: MILL	AREA			1						
Field Meteorological Information A. Temp. (°C				:): 27	R.H. (%): 68	W.C	.: Partl	W.D.: NW to SE			
Sample F	ample Receiving date: 15-09-2023 Testing Star				ted: 15-09-2	023	3 Testing Ended: 19-09-202				
				Tes	st Results						
SI. No.		Parameters		Test	Method No.	Ur	nit	Limit	Results		
1.	Suspended F	Perticulate M	ulate Matter (SPM) IS 5182			mg	/m ³	10	6.6		
				End	of Report						
Env.Con	dition of Lab.	Lab. Laboratory is maintaining Temperat testing area as per IS 196:1966(C).					d Rela	tive Humid	lity 65±5 % in all		
Abbrevia	ition	MDL: Minimum Detection Limit, BDL: Below Detection Limit									
Limit is a	Specified	As Per Factories Act, 1948.(8 hrs. Basis)									
Remark		Sample Comply With the Prescribred Spefication.									

Tested By: Neema Kumari

Sample Drawn By: Rajiv Kumar Singh & Team

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Test Report

Discipline	e: Chemical	Grou	p: Atmospher	ric Pol	lution Sub-G	Froup: '	Work	Environme	ent & Indoor Air
Report Is	sue Date: 20-0	9-2023			Test Report	No.: R	N-230	0308001W	PM01
Sample II	D: 230915AP02	008			Sample Des	criptio	n: Wo	ork Place N	Ionitoring
Challan N	No./P.O. No.: 4	548023834/2	237		Challan No.	/ P.No.	Date	: 17-09-20	22
Issued to		(P), Bokard	Industrial A	rea B		s)			
Type of I	ndustry: Ceme	and the second			Customer I	Repres	entat	ive: Sanjee	ev Verma
Sample I	Drawn by: IEM	Team			Sampling D	ate: 15	-09-2	023	
Protocol:	CPCB Guidelin	e(NAAQMS/	36/2012-13)	& IS M	lethod 5182 Serie	es			
	Location: PAC		000000000000000000000000000000000000000						
Field Met	teorological Inf	ormation	A. Temp. (°C): 27	R.H. (%): 68	W.C.:	Partl	y Sunny	W.D.: NW to SE
Sample R	leceiving date:	15-09-2023	Testin	ng Sta	rted: 15-09-2023	i i	Tes	ting Ended	: 19-09-2023
				Te	st Results				
SI. No.		Parameters		Tes	t Method No.	Uni	t	Limit	Results
1.	Suspended F	erticulate M	atter (SPM)	IS 5	182 Part - 04	mg/n	n ³	10	7.5
				End	d of Report				
Env.Con	dition of Lab.		y is maintain ea as per 1S 1			2°C and	Rela	tive Humid	ity 65±5 % in all
Abbrevia	tion	MDL: Minim	um Detection Li	mit, BD	L: Below Detection	Limit			
Limit is \$	Specified	As Per Facto	ories Act, 1948.(8 hrs. I	Basis)				
Remark		Sample Co	mply With th	e Pres	cribred Speficat	ion.			

Tested By: Neema Kumari

Sample Drawn By: Rajiv Kumar Singh & Team

		1000
Specific Contractual Notes: -	Quality Checked by	ton Authorized Signatory
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 For an ability of institute to reinvitorimental management will be inner to involved another only. In case of feedback/ complaints, please send an email at <u>am iemeco@gmail.com</u> 	(Shreya Sonal)	(Dr. S. C. Jain)
On the basis of Quality Checked and Technical data verified by the Authorized signatory, the report is issued by the Director of the Organization.	Dy. Quality Manager	Part Director



Corporate office - A-8, Modi Heights, Opp.-All India Radio Station, Ratu Road, Ranchi, Jharkhand - 834001 Laboratory Site - H.No. - A-13, Saket Vihar, Near Sohrai Bhawan, Harmu Housing Colony, Ranchi-834002, Jharkhand, India Ph - 8407804254, 8407804251, Email - iem2012@rediffmail.com





Institute for Environmental Management Accredited by Jharkhand State Pollution Control Board, JSPCB

As Per Factories Act, 1948.(8 hrs. Basis)

Sample Comply With the Prescribred Spefication.

Certified by

ISO 9001:2015 (Quality Management System) ISO 45001:2018 (Occupational Health & Safety Management System)

Test Report

Discipline: Ch	emical	Grou	p: Atm	ospher	ric Po	llution	Sub-	Group: \	Nork	Environm	ent & Indoor Air
Report Issue I	Date: 20-09-	2023				Test	Repo	t No.: R	N-230	308001W	PM04
Sample ID: 23	0915AP02A0	01				Sam	ple De	scriptio	n: Wo	rk Zone	
Challan No./P	.O. No.: 454	8023834/2	237			Cha	lan No	./ P.No.	Date	: 17-09-20	22
Plot	mia Cement t No IV/A-7(l aro Steel C	P), Bokard	Indus	trial A	rea B	alidih	it Wor	ks)		2	
Type of Indus	try: Cement					Cus	tomer	Represe	entati	ve: Sanje	ev Verma
Sample Draw	n by: IEM T	eam				Sam	pling [Date: 15-	09-20	23	
Protocol: CPC	B Guideline(NAAQMS/	36/201	2-13)	& IS N	Aethod 51	82 Ser	ies			
Sampling Loca	tion: TRUCI	K LOADING	AREA								
Field Meteoro	logical Info	rmation	A. Ter	np. (°C): 27	R.H. (%):	68	W.C.:	Partly	Sunny	W.D.: NW to SE
Sample Receiv	ving date: 1	5-09-2023		Testir	ng Sta	rted: 15-0	9-202	3	Test	ing Ended	: 19-09-2023
					Te	est Result	5				
SI. No.	Pa	arameters	8		Tes	t Method	No.	Unit		Limit	Results
1. Su:	spended Pe	rticulate M	atter (S	PM)	IS 5	5182 Part	- 04	mg/m	3	10	6.8
					En	d of Repo	rt				
Env.Condition		Laborator testing are					e 27±	2°C and	Relat	ive Humic	lity 65±5 % in all
		and the second se	Contraction of the Owner of the O	ction Lin	and the second se	service of the second se	and the second se	THE R. LEWIS CO., LANSING MICH.			

Tested By: Neema Kumari

Limit is Specified

Remark

Sample Drawn By: Rajiv Kumar Singh & Team

Specific Contractual Notes: -	Quality Checked by non neg Authorized Sig	nator
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In case of feedback/ complaints, please send an email at <u>gm.lemeco@gmail.com</u>	(Shreya Sonal) (Dr. S. C. J.	ain)
On the basis of Quality Checked and Technical data verified by the Authorized signatory, the report is issued by the Director of the Organization.	Dy. Quality Manager Rand	



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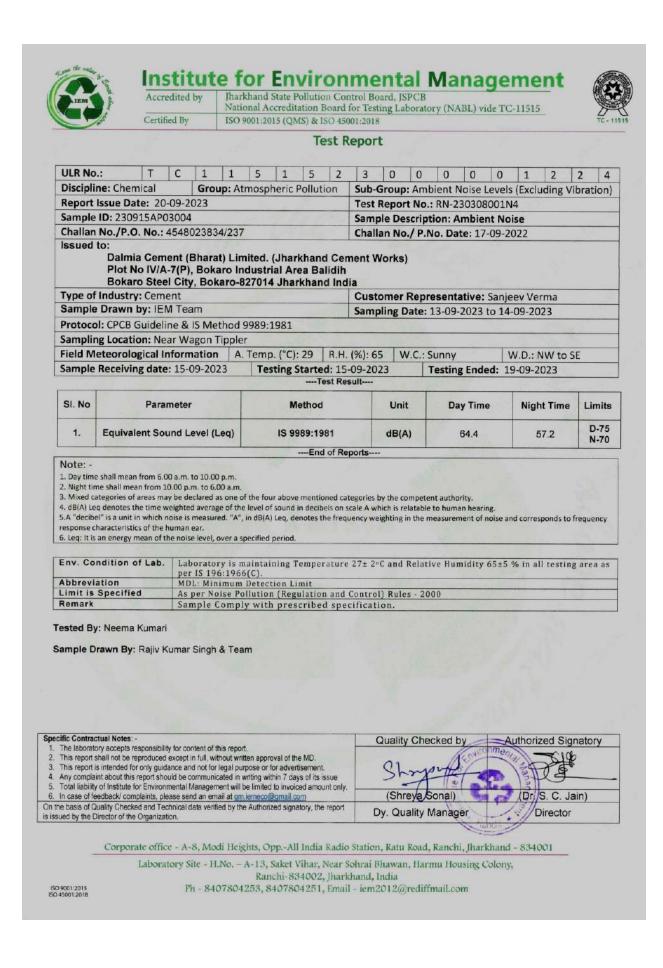


Noise Level Report

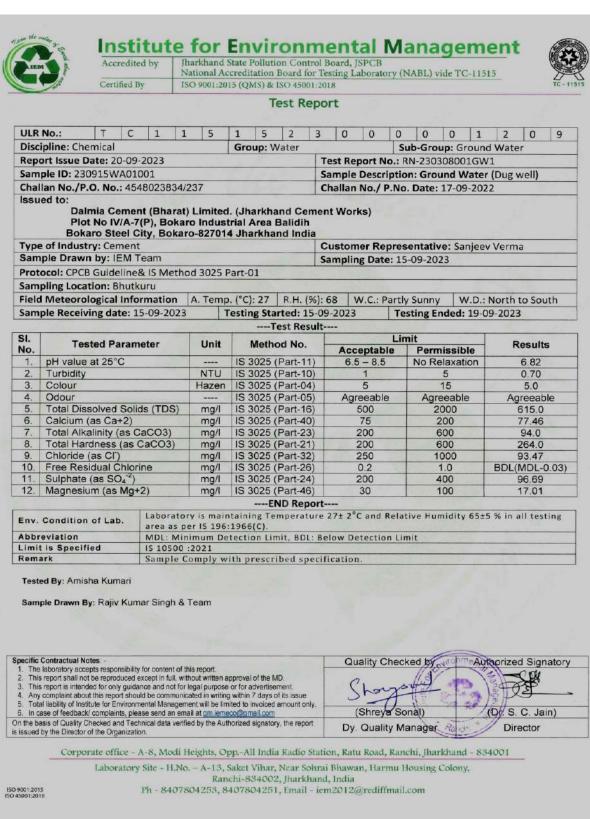
	Accred Certifie	Natio	chand State Pollution Cor onal Accreditation Board 1 001:2015 (QMS) & ISO 450	for Testing Labor		C-11515	TE-1
	er Ceruie	1 by 130 9	Test R		1		
	1+ 1					1 2 2	1
JLR No			5 1 5 2 mospheric Pollution	3 0 0	0 0 0 Munbient Noise Leve	and a second	
	ne: Chemical		mospheric Pollution		No.: RN-230308001		nation,
	Issue Date: 20-0	anno Au			ription: Ambient N		
	ID: 230915AP03 No./P.O. No.: 4				P.No. Date: 17-09-	And the second se	
ssued	to: Dalmia Ceme Plot No IV/A-	nt (Bharat) Lin 7(P), Bokaro In	nited. (Jharkhand Cer dustrial Area Balidih 27014 Jharkhand Ind				
Type of	Industry: Ceme	and the second se			presentative: San	jeev Verma	
	Drawn by: IEN			Sampling Dat	te:13-09-2023 to 14	4-09-2023	
	I: CPCB Guidelin		9989:1981				
	ng Location: Nea			The second second	2		
PERSONAL PROVIDE	eteorological In		Temp. (°C): 29 R.H.	. (%): 65 W.0	C.: Sunny	W.D.: NW to SI	E
	Receiving date:		Testing Started:15-	-09-2023	Testing Ended:	19-09-2023	
			Test Re	sult			
SI. No	Paran	neter	Method	Unit	Day Time	Night Time	Limits
			IS 9989:1981	dB(A)	65.9	59.4	D-75
L. Day tim 2. Night tir 3. Mixed c 4. dB(A) Le	eq denotes the time w) a.m. to 10.00 p.m. .00 p.m. to 6.00 a.m. be declared as one o sighted average of the	End of Re of the four above mentioned ca e level of sound in decibels on	aports ategories by the com scale A which is rela	petent authority. table to human hearing.	and corresponds to 5	
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						Test	Repo	ort					
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	ine: Chemical		Group: At	mosph	neric Poll	ution	Sub	-Group:	Amb	ient Noise	Level	s (Excluding	Vibration
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	e Drawn by:	100 975550	March and a second second				Sam	pling Da	te: 1	3-09-2023	to 14	1-09-2023	
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	ng Location: I leteorologica		and the set of the set		. (°C): 29		(0/)	CE IN	C . C	100.001			
	Receiving da		AND INCOMENTATION OF A DESCRIPTION OF A		ting Star	-	1. (%):	and the second s		unny		W.D.: NW to	SE
Jampie	necerving us	. 15-0	5-2025	res	and the first of the	-Test R			_	esting cho	ieu: 1	19-09-2023	
SI. No	Pa	ameter			Metho	od		Unit		Day Tin	ne	Night Tim	e Limit
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GROUND WATER QUALITY REPORT NEAR VILLAGE AREA







Test Report

	10.: T	С		1	5	1	5	2	3	0	0	0	0	0	1	2	1	1
	oline: Chemical		Group	:Re	sidues	and	Conta					Sub-Gr				ls elen	nents	
1.1011.007.007	rt Issue Date: 20	e franciska statisticka	Contraction of the second					1	est R	eport	No.:	RN-230	03080	01GV	V1			
	le ID: 230915R0					001		5	ample	e Des	cripti	on: Gr	ound	Wate	r (Dug	well)		
	an No./P.O. No.	: 45480	023834/	237	7			0	halla	No.	/ P.N	o. Date	: 17-0	09-20	22			
Issue	d to: Dalmia Ce Plot No IV Bokaro St	//A-7(P), Boka	ro I	ndust	rial A	rea B	alidit	E.	Work	(S)						2	
Type of	of Industry: Cer									ner F	Repre	sentat	ive: S	aniee	v Ver	na		
Samp	le Drawn by: If	EM Tea	m									5-09-2					-	
Proto	col: IS Method 8	& CPCB	Guidel	ine										-				
Sampl	ling Location: B	hutkur	u					0			100							
Field I	Meteorological	Inform	ation	A.	Temp). (°C):	27	R.	H. (%)	68	W.	C.: Par	tly Su	nnv	W.D	.: Norti	h to Se	outh
Concernant and the second	le Receiving dat	and the second se	and the second se		Testin	g Sta	rted:	10025			-	Testing			and the second		1 10 01	outin
							T	est Re	sult				A. U.L.		00 2		-	
SI. No.	Tested Paran	neter	Uni	it		1	Metho	d No.				Limit	s		1	Res	ults	
1.	Copper		mg	/1		APH	A 31	11 B.2	017			0.5-1	5		BD	L (MD	L - 0.0)2)
2.	Chromium		mg	/1		APH	IA 31	11 B.2	017		0.05	No Re	elaxat	ion		L (MD		
3.	Lead (Pb)		mg	/1		APH	A 31	11 B.2	017		0.01	No Re	elaxat	ion	BD	L (MD	L - 0.0)7)
4.	Manganese (Mn)	mg	/1		APH	IA 31	11 B.2	017			0.1 - 0	.3		207.000	L (MD		
5.	Total Coliforn	m	mg	/1		15	6 1622	2: 198	1		S	Shall no				DL (MI		
6.	E. Coli		mg	/I		15	6 1622	2: 198	1			table in ml sam		100	_	DL (MI		-
			-				E	nd Re	port				-					
	Condition of Lat	a	aborato rea as p	erl	5 196:	1966(C).							idity	65±5	% in al	l testi	ng
	viation		IDL: Mir			tectio	n Limi	it, BDL	: Belo	w De	tectio	n Limit	8					
Remar	is Specified		10500	1.	and the second sec	.1			. 41					-	and a		-	
	K	5	ample (.om	ply wi	th pr	escrit	oed sp	ecifica	ation.	t <u>e</u>	_	-					

	tractual Notes: -	Quality Checked by	Authorized Signatory
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	f Quality Checked and Technical data verified by the Authorized signatory, the report e Director of the Organization.	Dy. Quality Manager	Director
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	Laboratory Site - H.No. – A-13, Saket Vihar, Near Sohra Ranchi-834002, Jharkhan	and the second se	ony,
0 9001:2015 0 45001:2018	Fh - 8407804253, 8407804251, Email - ie	m2012@rediffmail.com	

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 Institute for Environmental Management

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 Jharkhand State Pollution Control Board, JSPCB

 National Accreditation Board for Testing Laboratory (NABL) vide TC-11515
 ISO 9001:2015 (QMS) & ISO 45001:2018



Test Report

Contraction of the		T	С	1	1	5	1	5	2	3	0	0	0	0	0 1			1	0
	ipline: Chem			_			Gre	oup: \	Nater				SL	b-Grou	p: Grou	nd Wa	ter		
asher on the	ort Issue Dat			3242604111152	1					Tes	t Rep	ort N	Io.: R	N-2303	08001G	N2			
Sam	ple ID: 2309:	15W	A010	002						San	nple	Descr	iptio	n: Grou	ind Wate	er (Dus	w	ell)	
Chal	lan No./P.O.	No.	: 454	8023	834/	237									17-09-20				
Issu	Plot N	lo IV	/A-7((P), B	oka	ro Indu	strial	Area	and Cen Balidih and Ind		Worl	(S)							
Туре	of Industry:				Harres					1	stom	er Re	pres	entativ	e: Sanje	ev Ver	ma		_
Sam	ple Drawn b	y: IE	MT	eam					-	A REAL PROPERTY.				09-202	and the second se	ev ven	na		_
	ocol: CPCB G	State Are			leth	nd 3025	Part-	01		Jun	pin	5 Dat	c. 15	05 202		-			_
	pling Locatio					54 5025	Ture	01		-							-		_
	Meteorolog					A. Tem	n 1º0	1. 27	D 11 /0	1. 00	In	10.0		Commercia	1.00				
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Salli	pie Receiving	guat	e: 15	0-09-2	023		lesti		arted: 15			-	Tes	ting En	ded: 19-	09-202	23		
SI.						-			Test Resu	ilt	-								-
No.	Teste	d Pa	rame	eter		Unit	8 - 4	Meth	od No.	-		and a lat	Lim				Re	sults	
1.	pH value at	25°0	~		-		19	3025	(Part-11)			- 8.5			issible		-	FA	
2.	Turbidity	20 1	-			NTU			(Part-10)		0.5	1			laxation 5		-	.51	
3.	Colour	_	_	-		Hazer			(Part-04)			5			15			5.0	-
4.	Odour		-				and the second second	and the second second	(Part-05)	-	Aare	eable	-		eable	1		eabl	0
5.	Total Dissol	ved	Solid	s (TD	S)	mg/l			(Part-16)			500			000		-	19.0	e
6.	Calcium (as				~,	mg/l			(Part-40)			75	-		00			7.68	-
7.	Total Alkalin	nity (as Ca	aCO3)	mg/l			(Part-23)		_	200		- 711	00			10.0	
8.	Total Hardn	ess	(as C	aCO	3)	mg/l			(Part-21)		2	200			00		_	64.0	
9.	Chloride (as	CI)				mg/l	IS	3025	(Part-32)		2	50		10	000			.49	
10.	Free Residu			ne		mg/l	IS	3025	(Part-26)		().2		1	.0	BDL	(M	DL O	.03
11.	Sulphate (as					mg/l	IS :	3025	(Part-24)		2	200		4	00			.84	
12.	Magnesium	(as I	Mg+2	2)		mg/l	IS :		(Part-46)	_		30		1	00		37	7.86	
									ND Repo										
	Condition of	Lab		area	as p	er IS 19	6:1966	5(C).	mperatu						nidity 653	:5 % in	all	testi	ng
1227/201	eviation	_					etecti	on Li	nit, BDL:	Belo	w De	tectio	n Lim	it					
Rema	is Specified					2021			Ihad	-25		_		1			_	_	
tema	IT K			sam	ore C	omply	with p	rescr	ibed spe	cifica	ition		-	1.15.1	-10-1		_	_	
	ed By: Amisha ble Drawn By: F			ar Sing	gh & '	Team													

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

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

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

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

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DALMIA CEMENT (BHARAT) LIMTED, 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.

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	
11	11 th (2021-2022)	500	Plantation done in the place of dead
12	12 th (2022-2023)	350	tree
13	12 th (2023-2024)	400	-
	Total	26139	23.25

YEAR WISE TREE PLANTATION DETAILS GIVEN AS FOLLOWS

S.N	Year	Name of Species tree planted
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

DALMIA CEMENT (BHARAT) LIMITED, BOKARO

Carbon emission and carbon neutrality action plan

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

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

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

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

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

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

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

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

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

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

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

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

1. GHG Emission from fuel consumption: Direct GHG emission occur from that are owned or controlled by the company (Scope 1).

- 1. Coal consumption in FBC (Indian Coal)
- 2. Diesel Consumption in FBC for light up
- 3. Own vehicles and hiring equipment' by the company & fuel consumed process activities.

GHG Emission from fuels

Categories	UOM	2019-20	2020-21	2021-22
Scope-1 Emissions from Coal & Diesel consumption for the process of Cement Manufacturing.	Cementitious	51.92	41.20	42.78

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

1. Electricity consumption from Grid.

GHG Emission from power consumption

Categories	UOM	2019-20	2020-21	2021-22
Scope-2 Emissions from Electricity consumption	Kg CO2 /Tone of Cementitious material	41.89	44.22	45.73

Summary report of GHG emission last five years in below table

Scope	Categories	UoM	2017-18	2018-19	2019-20	2020-21	2021-22
	Emissions from	Kg CO2					
1	Cement	/Tone of	53.42	58.41	51.92	41.20	42.78
	Manufacturing	Cement					
	Emissions from	Kg CO2					
2	Electricity	/Tone of	58.91	60.58	41.89	44.22	45.73
	consumed	Cement					

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

Mitigation plan for reduction of GHG emission

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

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

1. GHG emission mitigation:

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

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

1. We are continually reducing clinker consumption for cement manufacturing.

2. We are planning for construction of new clinker silo for the storage of clinker to reduces road

transportation

3. We have continually increase rail transportation for inwards and outwards materials, reduce

road transportation.

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

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

Implementation of ISO 50001:2018

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

(C). Increasing power sourcing from renewal energy

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

(d) We have installed solar light & LED light in plant and colony area for the reduction of power

consumption.

(e) Tree plantation regularly done in plant & village area and maintaining the green belt. This will also help to reduce GHG emission.

2.Regular Assessment of GHG Emissions and Strengthening of Inventory

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

GHG Reduction Targets:

(a). To drive innovation – resources are involved from various departments to reduce the emission. This will bring buy-in from all the stockholders involved and help in driving innovation to reduce the GHG emission.

(b) To improve cost efficiency: cost saving can be made by identifying opportunities to increase resources and energy efficiency. This may help to improve our competitive advantage

(c) Organization will setup ambitious targets, measuring managing, reporting and reducing GHG emissions.

(d) Organization will be conduct internal as well external energy audit reduction of GHG emission

(e) It will help in raising awareness among consumers and employees on what role they can play in reducing impact of GHG emission

(f) Dalmia Cement (Bharat) Limited Bokaro unit will continually analysis the GHG Reduction potential opportunities identified, priorities and implement them to achieve GHG emission reduction target as well as associated cost benefit.

Annexure-4

	Corporate social responsibility (CSR) & Corporate Environment responsibility report					
	For the period of April 2023 to September 2023					
SI. No	Name of Activity	Place of Activity/Village	Expense Rs.			
1	Drinking Water Facility at DIC Bokaro	Bokaro	247092			
2	Dental Camp at Girls High School Tantri	Tantri	8900			
3	Flag Distribution under Har Ghar Tiranga Abhiyan	Gorabali, Kanari, Khutri, Bisunpur,	30000			
4	Plantation on the Eve of the World Environment Day	Gorabali, Kanari, Khutri, Bisunpur,	44000			
5	Support to District Adminstration , Books Provided For District	Bokaro	200000			
6	Construction of Community Centre	Gorabali	413000			
7	Livelihood Skill Trainning	Gorabali, Marafari, Kanari	190000			
8	Beautification of Tiranga Park at Bokaro	Bokaro	2607800			
9	Toilet Construction at Bishunpur Community Centre	Bisunpur, Gorabali Soiuth	212000			
10	Teachers day Celebration at Govind Mahyamik Vidyalaya	Marafari	5000			
11	Awarness Session On Livelihood	Marafari	7000			
12	Football Match at Gorabali Playground	Gorabali North	19000			
13	Pond Construction at Pakhariyatand	Pakhariyatand	1600000			
14	World Yoga Day at Bokaro Diksha	Bokaro Diksha	15000			
15	Independence day Celebration at Bokaro DikshA	Bokaro Diksha	22000			
16	WoW Bus Computer Trainning	Tupkadih and Jainamore	Ongoing			
17	Gorabali Play Ground Development	Gorabali North	55750			
18	Awarness on clean air for blue skys DIKSHA Center	Bokaro	5000			
19	Awarness on World Ozone Day Balidih Girls School	Balidih	5000			
Total			5686542			

Annexure: 5

CORPORATE ENVIRONMENT POLICY

DALMIA BHARAT LIMITED

Regd. Office: Dalmiapuram – 621651, Dist: Tiruchirapalli, Tamil Nadu [CIN: L40109TN2006PLC058818] Tel. No.: (04329) 235132 Website: www.dalmiabl.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 fulfillment 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, coprocessing 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.

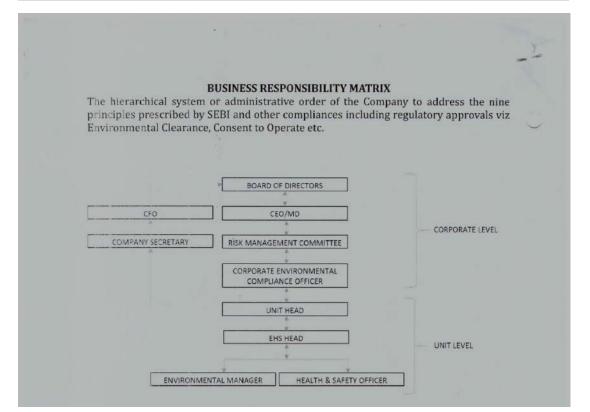


Independent Audit / Evaluation of working of the Policy

Independent Audit / evaluation of working of the Policy shall be done by the Internal Auditor atleast once a year and report the same to the Chief Financial Officer and Whole Time Director, being designated by the Board of Directors as responsible Director for the preparation and implementation of the Business Responsibility Policy.

Conclusion

This Policy will be reviewed as and when deemed necessary in view of the revision/amendment in the Regulations notified from time to time or otherwise.



CAPITAL COST INVESTMENT ON ENVIRONMENT PROTECTION AT DCBL BOKARO UP TO SEPTEMBER 2023

	M/S DALMIA CEMENT (BHARAT) LIMITED, BOKARO				
	Plot No. IV/A-7(P),Bokaro Industrial Area,Balidih ,Bokaro Steel City,Jharkhand -827014				
САРІ	CAPITAL COST INVESTMENT ON ENVIRONMENT PROTECTION AT DCBL BOKARO UP TO SEPTEMBER 2023				
S.N	PARTICULARS	Asset no	Investment in Rs.	Investment in Crores	
1	INVESTMENT ON AIR POLLUTION CONTROL MEASURES				
а	Bag House cement mill	550000007	193983042.2		
b	Bag house fan	5500000014	13972406.4		
с	Bag house for cement mill	550000037	9901023.02		
d	Bag house fan	5500000046	185484.52		
е	Sprs Bag house fan -mill -1	550000016	6300867.1		
f	Sprs Bag house fan -mill -2	5500000017	6300867.53		
g	Bag filter from silo to packing plant EEL India limited		21000000	29.05	
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		
			290493690.8		
2	INVESTMENT ON FUGITIVE DUST EMISSION CONTROL	_			
а	Construction of Tarpaulin shed near packing plant	5200000052	1741749.73		
f	Road Swapping machine	590000085	128981		
g	Water spray tanker	506000016	100000	8.64	
h	Delexo Road Swapping Machine	5500000172	2452009.2	0.04	
i	Steel Silo for storage of PCC	5500000185	28115894.14		
J	Plant Roads construction	520000010	53848342.83		
			86386976.9		
3	INVESTMENT IN WATER POLLUTION CONTROL MEASU	RES			
а	Rain water Harvesting	520000034	56547.38		
b	Sewar line connected to plant toilet to STP	520000054	958795.98		
с	Bio Toilet at Wagon Tippler & Railway penal Yard	5200000055	99308.58		
d	Construction of Sewage treatment Plant	5200000067	4772895.03		
е	Water treatment plant	5040000011	133559.51	0.78	
f	Toilets & Bathroom for Labour Camp	5200000056	1074911.5		
g	Water treatment plant	5040000013	682090.06	J	

			7778108.04	
4	ENVIRONMENT POLLUTION MONITORING EQUIPMEN	IT		
1	CAAQM -S02 & NOx Analyzer	5500000068	1308596	
2	Laboratory balance	5500000074	19244	
3	Opacity meter From Chemtrols industries LTD	590000033	88889.55	
4	Opacity meter From Chemtrols industries LTD	590000034	88889.55	
5	Data connectivity to CPCB Server	580000003	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	580000003	490800	
10	Construction of 2.no CAAQMS Room	5200000035	454879	0.61
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	
			6120847.34	
	Capital cost Investment from April 23 to September 23			Nil
	Total Capital Cost Investment on Environment measu	res up to Septer	nber 2023	39.08

DALMIA CEMENT (BHARAT) LIMITED, BOKARO

RECURRING COST EXPENDITURE ON VARIOUS ENVIRONMENTAL PROTECTION ACTIVITIES

eration and maintenance cost of Pollution Control Equipment ment Mill st on Schedule maintenance gs replacement with new bags, Bags cleaning, De dusting line cking, cleaning and repairing work. Bag filters fan intenance etc) wer consumption in Pollution control equipment (Bag House & g Filter) 10344727 KWH X 5.60 rd Party Environmental Monitoring & Analysis IC of CEMS Data transmission to JSPCB& CPCB IC of CAAQMS Maintenance, Servicing and Calibration,	Cost (Rs. In Lacs) ent 8.10 579.30 1.15 0.17
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g Filter) 10344727 KWH X 5.60 rd Party Environmental Monitoring & Analysis IC of CEMS Data transmission to JSPCB& CPCB	1.15
IC of CEMS Data transmission to JSPCB& CPCB	
	0.17
IC of CAAQMS Maintenance, Servicing and Calibration,	
	0.75
IC of CAAQMS Data transmission to JSPCB & CPCB	0.50
ibration of Pollution Monitoring Equipment's (CEMS)	1.50
ibration of Pollution monitoring instrument (RDS &Stack SI,Noise level meter)	0.15
Pollution Monitoring Accessories' np maintenance kit & PM-10 & 2.5 Filter paper	2.00
ter Pollution Management (AMC of STP, R.O Plant, D.M. nt, & Softener Plant), Cleaning of Nala,	0.30
P Operation & Maintenance	1.78
ad Sweeping Machine Operation & Maintenance	2.65
posal of Bio medical waste	0.18
el consumption in water sprinkling tanker of water on dusty	0.12
a	6.80
	ad Sweeping Machine Operation & Maintenance posal of Bio medical waste l consumption in water sprinkling tanker of water on dusty

Annexure-7

Environment Internal audit report

April 2023-September-2023

Date: 26.08.2023

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

9	Checked Drinking water quality	Complied, Drinking water quality regular checked.	Complied.
10	Checked status validity of CTO & EC	Complied. within time limit	Complied.
11	Checked fugitive dust emission records	Complied	Complied
12	Status of Green belt development	Complied Green belt maintained 33% of the plant	Complied

Advertisement in newspaper for receiving of EC from SEIAA

I III ICIUSIAI III I ICS	region	03	HINDUSTAN TIMES, RANCHI THURSDAY, OCTOBER 03, 2019
	ALMA CEMENT (BHARAT) A BOKARO INDUSTRIAL AL BOKARO JHARKHAND DUBLIC DUBLIC ASSASSMENT AUTHORY (1) Harkhand has accorded Envir Clearance vide there le EC/SEIA/2018-92/138/20 dated 23.09.2019 for "Upgrat Echoslogy at existing Stat Cement Grinding Unit (Fr MTPA to 3.70 MTPA) of M/S Cement (Bharat) Limited at U/A-7(P), Bokaro Industri Bokaro. Copies of clearance let thevel Environment I Assessment Authority office alo be seen at website office of Environment Forest and Chan age M off F & Co Intp./environmic.in	teA CE CE Comment ter no 19/474, Jation of holalone om 3.0. Dalimla Plot No: al Area, ter have m pact state m pact climate C) at	
डालमि	didaily.com रांची (या सीमेंट (भारत) बोकारो औद्योगिक क्षेत्र बोकारो (झारखण्ड) सार्वजनिक सूचन व पर्यावरण प्रभाव आकलन प्रा द्वारा पर्यावरण स्तीकृति पत्र संख्या	1 धकरण (SEIAA),	र २०१९

Annexure-9

EC Copy submitted to local authority & another Govt. Department

Dalmia	
Dannia Bharat Cement	newthink! cement! sugar! refractories! powe
	Date: 03.10.2019
To,	
Shri Ganesh Thakur ji Mukhiya	
Village/Basti : Balidih	
Gorabali (South) Gram Panchayat	
Bokaro	
	ion of Technology at existing standalone Cement Grinding
unit from 3.0 MTPA to 3.70 MTPA of M/s D Industrial Area Bokaro"	almia Cement (Bharat) Ltd. at Plot noIV/A-7(P), 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	
	rom 3.0 MTPA to 3.7 MTPA for which finally EC has been
	essment Authority (SEIAA) vide letter no. EC/SEIAA/2018-
19/2138/2019/474 dated 23 rd September 20	
This is submitted for your kind information	& record please
Thanks & Regards	
Yours sincerely	
For Dalmia Cement (Bharat) Limited	
Mullowhu	
Mukesh Kumar Garg	
(Unit Head & Assistant Executive Director)	
04	
Encl A/a	0
	(THOS
	मुान्त्रया
	पाम पंचायत मोडावाली वन
	प्रखण्ड-चास (धाकारो) 4.10: 2-019
	4.10.2001
D	imia Cement (Bharat) Limited
Works ; Plot No IV/A-7(P) Bokaro .	Industrial Area, Balidih, Bokaro Steel City - 827014, Tharkhand, India 31N - UES191TN1996PLC035963
	53278 / 253047 w www.dalmiacement.com
r- 91 6542 2 Registered Office : Dalm	Japaram, Dist. Truchirapalli, Tamil Nadu 621651, India Dalmia Bharat Group company



newthink! cement! sugar! refractories! power!

To,

Date: 03.10.2019

at mun ut Regional Director

harkhand Industrial Area Development Authority (JIADA) 3. 1° 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"

0/0

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 23rd September 2019 (Copy of EC enclosed)

This is submitted for your kind information & record please

Thanks & Regards

Yours Sincerely For Dalmia Cement (Bharat) Limited

Mulenty

Mukesh Kumar Garg (Unit Head & Assistant Executive Director)

Encl A/a

Dalmia Cement (Bharat) Limited Warks : Plot No. - IV/A-7(P) Bokaro Industrial Area, Balidit, Bokaro Sievel City - B27014, Iharkhand, India City - UCS 1917 N996PL Cl035083 t- 91 6542 253278 / 253047) w www.sdalmiacement.com Registered Office : Dalmiaparum, Dist. Thruchirapalli, Tamil Nadu 621651, India A Dalmia Bharat Corage company www.dalmiabharat.com