

cement! sugar! refractories! power!

#### То

Date: 10.05.2023

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

Subject: Half yearly Environment Clearance (EC) Compliance report of Bokaro Cement Manufacturing works unit of Dalmia Cement (Bharat) Limited for the period of October 2022 to March 2023.

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

#### Dear Sir,

Please find enclosed herewith half yearly Environment Clearance compliance report of Bokaro Cement Manufacturing works unit of Dalmia Cement (Bharat) Limited, Bokaro, Jharkhand for the period of October '2022 to March '2023 for your kind perusal.

Thanking you.

Yours Sincerely,

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

### Inhi hoka

#### **Authorized Signatory**

#### Copy:

- 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
- Regional Environmental Officer, Jharkhand State Pollution Control Board Dhanbad, HIG-1, Sardar Patel Nagar, Hirapur Dhanbad-826001
   Enclosed:
  - 1. EC Compliance Report
  - 2. Annexure -I to XVI

#### Dalmia Cement (Bharat) Limited

Unit : Bokaro Cement Manufacturing Works Plot No. IV/A-7(P)4, Bokaro Industrial Area, Balidh, Bokaro Steel City, Bokaro-B27014, 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 Truchirapalli, Tamil Nadu - 621 651, India. A Dalmia Bharat Group Company, www.dalmiabharat.com

## Bokaro Cement Manufacturing Works

### (A Greenfield Standalone Grinding Unit of Dalmia Cement (Bharat) Limited)

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

### STATUS OF COMPLIANCE OF ENVIRONMENTAL CLEARANCE FROM OCTOBER 2022 TO MARCH 2023

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

S. No.	EC Conditions	Compliance
Specific Conditions		
i.	<ul> <li>This Environmental Clearance is valid subject to the following condition below —</li> <li>That this project has-</li> <li>a. Obtained all legal rights to operate at concerned place.</li> <li>b. Complied with all existing concerned laws of the land and</li> <li>c. Complied with the decisions of SEIAA on the issue of Environmental Clearance till date.</li> </ul>	Complied a. The project is located in Notified Industrial area. The land is allotted by JIADA to DCBL at Plot No. IV/A-7(P)4, Notified Bokaro Industrial Area Balidih Phase-4, Bokaro- 827014, Jharkhand and is in possession of DCBL. b. All existing concerned laws are being complied. c. CTE and CTO obtained from JSPCB Ranchi for the construction and operation of the plant
I. Statut	ory Compliance	
1.	The project proponent shall obtain forest clearance under the provisions of Forest (Conservation) Act. 1986, in case of the diversion of forest land for non- forest purpose involved in the project.	Not Applicable as there is No Forest land in plant area. The unit is located in notified Industrial area at JIADA, Bokaro, Jharkhand with due allocation through Govt of Jharkhand. Obtained all necessary statutory clearance to operate the plant.
2.	The project proponent shall obtain clearance from the National Board for Wildlife, if applicable.	<b>Not Applicable.</b> This clause is not applicable to our unit, as there is no wild life sanctuary within 10 km radius of our unit. NOC of DFO Territorial & DFO Wildlife in this regard has been obtained vide Letter no. 3546 dated 21.12.2021 and 2058 dated 28.11.2021 respectively. The same was submitted during appraisal of plant and also is attached herewith as <b>Annexure I &amp; II</b> .
3	The project proponent shall prepare a Site-Specific Conservation Plan & Wildlife	Not Applicable

S. No.	EC Conditions	Compliance
	Management Plan and approved by the Chief Wildlife Warden. The recommendations of the approved Site- Specific conservation Plan/ Wildlife Management Plan shall be implemented in consultation with the State Forest Department. The implementation report shall be furnished along with six- monthly compliance report. (in case of the presence of schedule –I species in the study area)	The unit is located in notified industrial area at JIADA, Bokaro. There is no record of schedule –I species within 10 km radius of our unit. Hence this condition is not applicable.
4	The project proponent shall obtain Consent to Establish / Operate under the provisions of Air (Prevention & Control of Pollution) Act, I98I and the Water (Prevention & Control of Pollution) Act" 1974 from the concerned State Pollution Control Board/ Committee.	<b>Complied with</b> Our unit has obtained CTE from JSPCB, Ranchi vide letter no JSPCB/ HO/RNC/CTE- 15399804/2023/128, Dated 23.02.2023 and CTO obtained from JSPCB Ranchi vide letter no. JSPCB/HO/RNC/CTO-13611071/2023 /512 dated 22.03.2023 attached as <b>Annexure-III &amp;IV</b>
5	The project proponent shall obtain the necessary permission from the Central Ground Water Authority, in case of for drawl of ground water / from the competent authority concerned in case of drawl of surface water required for the project.	<b>Complied.</b> The permission for water connection has been obtained from JIADA and Drinking Water and Sanitation Sub-Division, Bokaro vide letter no 36 dated 13.04.2022. The same is attached herewith as an <b>Annexure-</b> <b>V</b> .
6	The project proponent shall obtain authorization under the Hazardous and other Waste Management Rules 2016 as amended from time to time.	<b>To be complied</b> . Authorization under the Hazardous and other Waste Management Rules 2016 will be obtained.
7	No mining / activity shall be undertaken in the forest land or deemed forest without obtaining requisite prior forestry clearance.	Not Applicable
8	This Environmental clearance is granted subject to final outcome of Hon'ble Supreme Court of India. Hon'ble High Court. Hon'ble NGT, MoEF&CC and any other Court of Law. If any, as may be applicable to this project.	Noted
9	Environmental clearance is subject to obtaining prior clearance from forestry and Wildlife angle including clearance from standing committee of NBWL, as may be applicable to this project (in case any fauna occurs/ is found in the project	Not Applicable and EC has already been obtained

S. No.	EC Conditions	Compliance
	area or if the area involves forest land or	
	wildlife habitat i.e. core zone of elephant	
	/tiger reserve etc. and or located within	
	10 km. of protected area.)	
10	The project proponent may apply	Not Applicable.
	simultaneously for forest and NBWL	
	clearance, in order to complete the	
	formalities without undue decay, which	
	till process on their respective merits, no	
	rights will vest in accrue to them unless all	
	clearance are obtained.	
ll. Air qu	ality monitoring and preservation	
1	The project proponent shall install 24 x 7	Complied.
	continuous emission monitoring system	Continuous emission monitoring system at
	at process stacks to monitor stack	process stacks installed to monitor stack
	emission with respect to standards	emission with respect to standards
	prescribed in Environment (Protection)	prescribed in Environment (Protection)
	Rules 1986 vide G.S.R no 612 (E) dated 25	Rules 1986 vide G.S.R no 612 (E) dated 25
	August 2014 (Cement) and subsequent	August 2014 (Cement) and subsequent
	amendment dated 9 <sup>th</sup> May 2016 (Cement)	amendment dated 9 <sup>th</sup> May 2016 (Cement)
	and connected to SPCB and CPCB online	and connected to SPCB and CPCB online
	servers and calibrate these system from	servers. This will be regularly calibrated.
	time to time according to equipment	
	supplier specification through labs	
	recognized under Environment	
	(Protection) Act 1986 or NABL accredited	
	laboratories.	
2	The project proponent shall monitor	Noted for compliance.
	fugitive emissions in the plant premises at	
	least once in every quarter through labs	
	recognized under Environment	
	(Protection) Act. 1986	
3	The project proponent shall install system	On line CAAQMS installation of equipment
	to carryout Ambient Air Quality	completed Data connectivity to JSPCB &
	monitoring for common/criterion	CPCB work is under progress. Manual
	parameters relevant to the main	AAQM checking started. Ambient air quality
	pollutants released (e.g. PM10 and PM2.5	monitoring report attached as per
	in reference to PM emission, and SO2 and	Annexure: VI
	NOx in reference to SO2 and NOx	
	emission) within and outside the plant	
	area at an angle of 120-degree each)	
	covering upwind and downwind	
	directions. (case to case basis small plant:	
	Manual: large plants: Continuous)	

S. No.	EC Conditions	Compliance
4	The project proponent shall submit monthly summary report of continuous stack emission and air quality monitoring and results of manual stack monitoring and manual monitoring of air quality /fugitive emissions to Regional Office of MoEF&CC. Zonal office of CPCB and Regional Office of SPCB along with six- monthly monitoring report	Noted for compliance. CEMS data will submit plant operation phase. Manual Ambient air quality monitoring started. AAQM monitoring report attached as per Annexure-VI
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.	<b>Complied with</b> . Bag House at the VRM and 31 Bag filters installed at all the material transfer and handling point to keep the emission within the standard specified by MOEFCC/CPCB. List of APC the same is attached as <b>Annexure</b> <b>VII</b>
6	The project shall provide leakage detection and mechanized bag cleaning facilities for better maintenance of bags.	<b>Complied with.</b> Regular maintenance of bag filters, leakage checking, cleaning of bag filter is being done by dedicated mechanical maintenance team as per schedule.
7	Pollution control system in the cement plant shall be provided as per the CREP Guidelines of CPCB	Complied with. Project is only grinding unit, Clinkerisation is not involved. Applicable Pollution control measures as per CREP guideline of CPCB implemented. Attached Annexure VIII
8	Sufficient number of mobile or stationary vacuum cleaners shall be provided to clean plant roads, shop floors, roofs, regularly.	<b>Complied with.</b> Stationary vacuum cleaners provided to clean plant roads, shop floors, roofs, regularly.
9	Ensure covered transportation and conveying of raw material to prevent spillage and dust generation; use closed bulkers for carrying fly ash.	<b>Complied with.</b> All raw materials/products is being transferred within plant by covered conveyor belt. Inward & outward transportation of Raw materials & products done in covered tarpaulin trucks/ bulkers/ rail to control material spillage as well as fugitive dust emission.
10	Provide wind shelter fence and chemical spraying on the raw material stock piles	<b>Complied with</b> All the raw material, fuel and products stored within the covered storage yard and silos.

S. No.	EC Conditions	Compliance
11	Have separate truck parking area and	Complied with.
	monitor vehicular emissions at regular interval.	PUC certified equipment as well as trucks are deployed. Separate truck parking facility provided. Regular checking of vehicles PUC certificates is being done to control of vehicular emission.
12	Efforts shall be made to reduce impact of the transport of the raw materials and end product on the surrounding environment including agricultural land by the use of covered conveyor belts/railways as a mode of transport.	Noted for compliance. All measures, detailed in PFR & EMP report, implemented to reduce impact of the transport. Covered conveyor belt are being used for transportation of raw material & product within plant. All raw materials and products transported in covered trucks, bulkers, and railways to reduce the fugitive dust emission. Regular water sprinkling is being done on the roads within plant through water spray tanker to control of fugitive dust emission.
13 III. Wate	Ventilation system shall be designed for adequate air changes as per ACGIH Document for all tunnels, motor houses, and cement bagging plants. er quality monitoring and preservation	<b>Complied with.</b> Ventilation system arrangement done at motor houses, and cement bagging plants.
1	The project proponent shall install effluent monitoring system with respect to standards prescribed in Environment (Protection) Rules 1986 vide G.S.R No. 612 € dated 25 <sup>th</sup> August, 2014 (Cement) and subsequent amendment dated 9 <sup>th</sup> May, 2016 (Cement) and connected to SPCB and CPCB online servers and calibrate these systems from time to time according to equipment supplier specification through labs recognized under Environment (Protection) Act 1986 or NABL accredited laboratories. (case to case basis small plants: Manual: Large plants: Continuous).	Not applicable There is no requirement of water for manufacturing process. Water will be required for cooling of equipment/machinery in closed loop & dust suppression. The water is either consumed or recycled, hence no effluent generation is foreseen. In view of this effluent monitoring system is not relevant for our unit.
2	plants: Continuous).The project proponent shall monitorregularly ground water quality at leasttwice a year (pre and post monsoon)sufficientnumbersofpiezometers/sampling wells in the plantandadjacentareasthroughlabsrecognizedunderEnvironment	Not Applicable. Ground water withdrawal is not proposed for the plant. There will not be any effluent generation from the plant. Sewage will be properly treated in STP and treated water will be used within plant for greenbelt development.

S. No.	EC Conditions	Compliance
	(Protection) Act.1986 and NABL accredited laboratories.	However, ground water quality and ground water depth level of surrounding village regularly monitored. same report attached as per <b>Annexure-IX</b>
3	The project proponent shall submit monthly summary report of continuous effluent monitoring and results of manual effluents testing and manual monitoring of ground water quality to Regional Office of MoEF&CC. Zonal office of CPCB and Regional Office of SPCB along with six- monthly monitoring report.	Not applicable. There will not be any effluent generation from the plant.
4	Adhere to 'Zero Liquid Damage'	Noted to comply.
5	Sewage Treatment Plant shall be provided for treatment of domestic wastewater to meet the prescribed standards.	Compliance under progress.
6	Garland drains and collection pits shall be provided for each stock piles to arrest the run-off in the event of heavy rains and to check the water pollution due to surface run-off.	<b>Complied with.</b> Garland drains and collection pits provided for each stock piles to arrest the run-off in the event of heavy rains and to check the water pollution due to surface run-off.
7	The project proponent shall practice rainwater harvesting to maximum possible extent.	<b>Compliance under progress</b> Technical approval RWH structure under progress at GWD Ranchi. Roof top storm water will be collected and will be used for various plant activities.
8	Water meter shall be provided at the inlet to all unit processes to maximum possible extent.	<b>Complied with.</b> Water meter installed at the inlet of the 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.	<b>Complied with.</b> Optimum use of water is being practiced and All necessary efforts will be made to reduce water consumption in our plant. Sewage will be treated in STP and treated water will be reused for greenbelt & dust suppression.
IV. Nois	e 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.	<b>Complied with.</b> Noise level is being regularly monitored in different locations as per the prescribed guidelines and will be submitted to Regional Officer of the Ministry along with Half Yearly Compliance Report.

S. No.	EC Conditions	Compliance
2	Ambient noise levels shall conform to the	Complied with. Noise level report attached
	standards prescribed under EPA rules viz.	as per Annexure- X
	75dB (A) during day time and 70db (A)	
	during night time.	
V. Energ	y Conservation measures:	
1	Provide solar power generation on	Shall be complied.
	rooftops of buildings, for solar light	Solar based LED lights installed at different
	system for all common areas, street lights,	location of the plant.
	parking around project area and maintain	
	the same regularly.	
2	Provide the project proponent for LED	Complied with
	lights in their offices and residential	LED lights installed for lighting purpose
	areas.	
3	Maximize utilization of fly ash, slag and	Complied
	sweetener in cement blend as per BIS	Portland Slag Cement (PSC) using waste
	Standards.	products such as Slag (about 65 %) as per BIS
		norms.
VI. Wast	te Management	
1	The waste oil, grease and other hazardous	Noted for compliance
	waste shall be disposed of as per the	
	Hazardous & other waste (Management &	
	Transboundary Movement) Rules 2016.	
2	Kitchen waste shall be composted or	Noted for compliance
	composted or converted to biogas for	Kitchen waste will be composted and
	further use.(to be decided on case to case	manure will be used in greenbelt
	basis depending on type and size of plant).	development.
VII. Gree	en Belt	
1	Green belt shall be developed in an area	Compliance under progress
	equal to 33% of the plant area with a	Greenbelt/plantation will be done over 33%
	native tree species in accordance with	of the total project area i.e., about 5.2 acres
	CPCB guidelines. The greenbelt shall inter	(2.105 ha). The green belt will inter alia
	alia cover the entire periphery of the	cover the entire periphery of the plant.
	plant.	Native species with large canopy will be
		selected for plantation in accordance with
		CPCB guidelines. Green belt development
		report attached as per Annexure: XI
2	The project proponent shall prepare GHG	Noted the condition.
	emission inventory for the plant and shall	
	submit the program for reduction of the	
	same including carbon sequestration	
	including plantation.	
VIII. Pub	olic Hearing and Human Health issues:	

S. No.	EC Conditions	Compliance
1	Emergency preparedness plan based on	Complied with.
	the Hazard identification and Risk Assessment (HIRA) and Disaster Management Plan shall be implemented	On site emergency Preparedness plan, Hazard identification and Risk Assessment (HIRA) prepared and same is approved by Chief Factory Inspector of Jharkhand.
2	The PP shall provide Personal Protection Equipment (PPE) as per the norms of factory act.	<b>Complied with.</b> All Personal protective equipment's (PPE) Safety shoes, Nose mask, safety helmet, earplug, provided to all employees and contract workers for their safety. Safety training is being regularly given to the employees for the awareness of safe working culture.
3	Provision shall be made for the housing of construction labor within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile STP, safe drinking water, medical health care, crèche etc. The housing may be in the form of temporary structures to be removed after the completion of the project.	<b>Complied With.</b> Local people are employed for the construction purpose. No housing facilities will be required for them. However, all necessary infrastructure / facility is being provided to all workers. Also the amenities available in the adjacent unit are made accessible.
4	Occupational health surveillance of the workers shall be done on a regular basis and records maintained as per the Factories Act.	Periodic medical health checkup of employees and workers is being done for every six months. Reports will be maintained as per Factory Act.
IX. Corp	orate Environment Responsibility:	
1	The project proponent shall comply with the provisions contained in this Ministry's OM vide F. No. 22-65/2017-14. III dated 1 <sup>st</sup> May 2018, as applicable, regarding Corporate Environment Responsibility.	Noted for compliance. The company proposes to invest around 1.5 Crores on the various socio-economic developmental activities on the basis of findings of Participatory rural appraisal which will be conducted periodically by DBF. All socio-economic developmental activities mentioned in submitted PFR & EMP report will be implemented. Apart, from this, company will spend 2% of the profit for implementation of various developmental activities for the nearby area as part of Corporate Social Responsibility Under Section 135 of Companies Act 2013 once plant commences operation. CER report for the year 2022-23 attached as per Annexure- XII

S. No.	EC Conditions	Compliance
2	The company shall have a well laid down environmental policy duly approved by the Board of Directors. The environmental policy should prescribe for standard operating procedures to have proper checks and balances and to bring into focus any infringements/ deviation/violation of the environmental / forest / wildlife norms / conditions. The company shall have defined system of reporting infringements / deviation / violation of the environmental / forest / wildlife norms / conditions and I or shareholders / stakeholders. The copy of the board resolution in this regard shall be submitted to the MoEF&CC as a part of six-monthly report.	<b>Complied</b> The Company has a well laid down corporate Environmental Policy governed by all the units and head office. Accordingly, a full- fledged Environmental Management Cell (EMC) for environmental monitoring and control will be established. The hierarchical system or administrative order of the Company is attached as an <b>Annexure XIII</b> .
3	A separate Environmental Cell both at the project and company head quarter level, with qualified personnel shall be set up under the control senior Executive, who will directly report of the head of the organization.	<b>Complied</b> . Environment Management Cell has been established at our plant as well as at Corporate headquarter for the management of environmental activities with qualified person. Environment management cell is headed by Executive Director (Plant Head).
4	Action plan for implementing EMP and environmental conditions along with responsibility matrix of the company shall be prepared and shall be duly approved by competent authority. The year wise funds earmarked for environmental protection measures shall be kept in separate account and not to be diverted for any other purpose. Year wise progress of implementation of action plan shall be reported to the SEIAA/Ministry, Regional office along with the six Monthly compliance Report.	Complied and will be complied during operation phase. Action plan for EMP Implementation during construction phase is in place. Separate budget allocated for Environment Protection. It is ensured that budget shall not be diverted for any other purpose. Expenditure on environmental protection will be regularly submitted to Ministry and his Regional Office as a part of Six Monthly EC compliance report. Expenditure on Environment protection From April 2022 to March 2023 attached as per annexure- XIV
5	Self-environmental audit shall be conducted annually. Every three years third party environmental audit shall be carried out.	The condition will be complied during operational phase of the project.
6	All the recommendations made in the Charter on Corporate Responsibility for Environment Protection (CREP) for the cement plants shall be implemented.	Noted for compliance during operation. Project is only grinding unit, Clinkerisation is not involved. Applicable Pollution control measures as per CREP guideline of CPCB will be implemented.

S. No.	EC Conditions	Compliance	
XI. Misc	XI. Miscellaneous:		
1	The project proponent shall make public the environmental clearance granted for their project along with the environmental conditions and safeguards at their cost by prominently advertising it at least in two local newspaper of the District or State, of which one shall be in the vernacular language within seven days and in addition this shall also be displayed in the project proponent's website permanently.	<b>Complied</b> A public notice informing about grant of EC has been published in two newspapers named "The Pioneer" and "Aaj" on 02.03.2023 in English as well as in vernacular language i.e. Hindi. Copy of Advertisements are attached herewith as an <b>Annexure XV</b> . The Newspapers with advertisement along with copy of EC have been submitted to the Regional Office of MoEFCC, MS-SEIAA and MS- JSPCB. Copy of submission receipts are attached herewith as an <b>Annexure-XVI</b> .	
2	The copies of the environmental clearance shall be submitted by the project proponents to the Heads of local bodies, Panchayats and Municipal Bodies in addition to the relevant offices of the Government who in turn has to display the same for 30 days from the date of receipt.	<b>Complied.</b> We have submitted copy of Environment Clearance to Regional Office of MoEFCC, MS-SEIAA, MS- JSPCB, local Panchayat and other Govt. bodies, district head quarter. Copy of submission receipts are attached herewith as an <b>Annexure-XVI</b>	
3	The project proponent shall upload the status of compliance of the stipulated environment clearance conditions, including results of monitored data on their website and update the same on half-yearly basis.	Noted for compliance.	
4	The project proponent shall monitor the criteria pollutants level namely; PM 10, SO2, NOx (ambient levels as well as stack emissions) or critical sectoral parameters, indicated for the projects and display the same at a convenient location for disclosure to the public and put on the website of the company.		
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.	Shall be complied.	
6	The project proponent shall submit the environmental statement for each financial year in Form-V to the concerned	The condition will be complied during operational phase of the project.	

S. No.	EC Conditions	Compliance
	State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently and put on the website of the company.	
7	The project proponent shall inform the Regional Office as well as Ministry, the date of financial closure and final approval of the project by the concerned authorities, commencing the land development work and start of production operation by the project.	Date of final approval: 27 April '2022 Date of start of Land development work: 29.04.2022 Date of Production date: Yet to start production as plant is under construction phase. Date of financial closure: Will be informed to Regional Office as well as Ministry.
7.1	The project authorities must strictly adhere to the stipulation made by the State Pollution Control Board and the State Government.	Noted for compliance.
7.2	The project proponent shall abide by all the commitments and recommendations made in the EIA/EMP report commitment made during Public Hearing and also that during their presentation to the Expert Appraisal Committee.	To be complied during operation of plant
8	It shall be mandatory for the project management to submit six (06) monthly compliance report in respect of the stipulated prior environmental clearance terms and conditions in hard copies and soft copies to the regulatory authority concerned SEIAA, Regional Office of MoEF & CC at Ranchi, Jharkhand State Pollution Control Board (J.S.P.C.B), Ranchi, and Central Pollution Control Board.(CPCB)	Noted for compliance
9	Concealing factual data or submission of false/fabricated data and failure to comply with any of the conditions mentioned above may result in withdrawal of this clearance and attract action under the provisions of Environment (Protection) Act, 1986.	Noted & agreed.
10	The SEIAA, Jharkhand or any other competent Authority may alter modify the above conditions or stipulate any further conditions in the	Noted & agreed

S. No.	EC Conditions	Compliance
11	No further expansion or modifications in	Noted & agreed
	the plant shall be carried out without prior	
	Approval of the Ministry of Environment,	
	Forests and Climate Change (MoEF&CC)	
12	Concealing factual data or submission of	Noted & agreed
	false/fabricated data may result in	
	revocation of this environmental	
	clearance and attract action under the	
	provisions of Environment (Protection)	
	Act, 1986.	
13	The Ministry may revoke or suspend the	Noted & agreed
	clearance, if implementation of any of the	
	above conditions is not satisfactory.	
14	The ministry may reserve the right to	Noted & agreed
	stipulate additional conditions if found	
	necessary. The company in a time bound	
	manner shall implement these conditions.	
15	The Regional Office of this Ministry shall	Noted & agreed
	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.	
16	The above conditions shall be enforced,	Noted & agreed
	inter-alia under the provisions of the	
	Water (Prevention & Control of Pollution)	
	Act, 1974, the Air (Prevention & Control of	
	Pollution) Act, 1981, the Environment	
	(Protection) Act, 1986, Hazardous and	
	Other Wastes (Management and	
	Transboundary Movement) Rules, 2016	
	and the Public Liability Insurance Act, 1991 along with their amendments and Rules	
	and any other orders passed by the	
	Hon'ble Supreme Court of India / High	
	Courts and any other Court of Law relating	
17	to the subject matter. Any appeal against this EC shall lie with	Noted & agreed
11	the National Green Tribunal, if preferred,	
	within a period of 30 days as prescribed	
	under Section I6 of the National Green	
	Tribunal Act, 2010.	
18	This environmental clearance is valid for	Noted & Agreed
10	seven years from the date of issue.	

### <u>Annexure-I</u>

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

	Government of Jharkhan	
आरत्यावर संरक्षार ।	Permission Letter : LETTER20211220	· · · · · · · · · · · · · · · · · · ·
Acknowledgment No: SWSFST1111202131031		Issue Date: 21-12-2021
Name Of Applicant :	Dalmia Cement Bharat Limited	
Email ID :	sinha.rajeevkumar@dalmiacement.com	Contact 9771478206
Report of	Distance from Forest, Forest Reserve and	-1446/86837
SNo	Checkpoint	Divisional Fórest Officer
1	Whether Distance of Project location from Reserved Forest/Protected Forest is 250 m?	Yes
2	Whether Project location come under No Mining Zone?	No
3	Does there any National park located within 10 km from project location?	No
4	Does there any Wildlife sanctuary located within 10 km distance from project location?	No
5	Does there any ESZ available within 10 km distance from project location?	No
6	Whether Proposed project comes under prohibited category of ESZ (Yes or No)?	No •
	Name :	
Note :- The order dated 12.1	2.1996 in case no. 202/95 passed by Designation :	- and
Hon'ble Apex Court will be	e applicable in respect of GMJJ Land. Signature :	hisionet frest omget // 24
The certificate to be issued	E by the Divisional Forest Officer of the respective Div	visions and upload
	ally operations of the	
	and the second	

									A
	Departmer	it of Forest, 1	Envi	ronment and	Clim	ate Chai	nge		a, .
	Report of Distanc	e from Notified For	est, N	ational Park, Sanct	uary & E	co-Sensitive	Zone		
Name	Dalmia Cement Bharat I	imited							ste.
	ution Non Government			The second					s /
	IID sinha.rajeevkumar@dalr	niacement.com . C	ontact	9771478206					
			0.:	Proposed Land					
Distri	ict Bokaro	, B P	attery	Gorabali					de .
Than	a No.: 14	· T	hana	Jaridih				+	
			ame:	892 (F),781 (P),777	(F).784 (	P) 779 (P) 7	78 (P) 7	82 (P) 783	
		A HERRICE		(P),887 (P),890 (F),8	888 (P),88	80 (P),852 (I	9),891		L
Khata	No.: 134,76,177,46,45,171,47	7,145,78,65,135,72 <sup>K</sup>	hesra	(F),960(P),850(P),85	93 (P),851	1 (P),858 (P)	,871 (F)	,957 (P),870	
			4	(F),862 (F),884 (F),8 (F),862 (F),876 (F),8 (F),873 (F),864 (F),8	881 (F),8	/9 (F),8/8 (I	),8/4 (1	),803 (F),800	8
		Charlest		(1),015 (1),004 (1),0		ge Forest		ional Forest	
#		Checkpoint			0	fficer —		Officer	λ.
1	Whether Distance of Project is 250 m? *	-			105		Yes		
2	Whether Project location cor	and the second second			No		No		
3	Does there any National part		and the second second		No		No		
4	Does there any Wildlife sand project location? *		10		No		No		5
5	Does there any ESZ availabl location? *				No		No	μ	
6	Whether Proposed project co No)? *	omes under prohibite	d cate;	gory of ESZ (Yes or	No	and the second	No		
						DFO Bok	aro		
Note	e :-The order dated 12.12.1	1996 in case no 2	02/95			3546	0 -		B-
	'ble Apex Court will be ap					isue 21 12	2021	AN	
rion	ore Apex Court will be ap	opineable in respec	n or c		Signature	-fl	M	Till	9/1
					Name	Divisional <sup>4</sup> Bokero Fol	est Divi	SIGR FUL	1/1
	the second s	Ne analysis of the second			Divisiona	al Forest of	karo	. / /.	• /
	in the second second								
					1. 				

### Annexure-II

	~				
		Department of	Forest, Environment and	Climate Change	в
	ame Of Dalmia C	Report of Distance from ement Bharat Limited	Notified Forest, National Park, Sanctu	ary & Eco-Sensitive Zo	ne
In	pplicant stitution pe Non Gove				
~ /	pe	evkumar@dalmiacement.com	Contact 9771478206		
			Location of Proposed Land		
Di	strict Bokaro		Battery center Point		
Th	ana No.: 14		Thana Jaridih Name:		
KI	uata No.: 134,76,17	7,46,45,171,47,145,78,65,135,7	892 (F),781 (P),777 (F),784 (P Khesra (P),880 (P),852 (P),891 (F),96	0(P),850(P),893 (P),851 ( 5 (F),886 (F),776 (P),883	(P),858 (P),871 (F),957 (F),882 (F),875 (F),862
	#	Check	spoint	Range Forest	Divisional Forest Offic
1	Whether Dist	tance of Project location from R	teserved Forest/Protected Forest is 250 m	Officer <sup>17</sup> No	No
2	Whether Pro	ject location come under No Mi	ning Zone? *	No	No
3	Same serel on the serel		10 km from project location? *	No	No
4		ny Wildlife sanctuary located w	ithin 10 km distance from project	No	No
5	location? *	av ESZ available within 10 km	distance from project location? *	No	No
6		an a she a a far a she a s	ibited category of ESZ (Yes or No)? *	Yes	Yes
ſ				Division DFO	Wildlife Hazaribagh
	क्र <u>0स0-1 एव 2</u> -	<ul> <li>भूमि की प्रकृति एवं वनभूमि र प्रदाधिकारी बोकारो तन प्रमाद</li> </ul>	से दूरी संबंधित वांछित सूचना वन प्रमण्ड ल के कार्यालय से प्राप्त करे।	Letter No	2058
	क्र0सं0—3 से 6—	के संदर्भ में प्रतिवेदित करना है	क प्रस्तावित परियोजना हेतु आवेदित रथ	Date of issue	8.11. 2021
		Battery Point (23.6961985N	86.0644832E) से निकटतम संरक्षित ह	3	(Aberth)
		(Protected Area) तोपचांची पर्यावरण एवं जलवाग प्रचितन	वन्यप्राणी आश्रयणी अवरिथत है, तथा व न मंत्रालय भारत सरकार द्वारा <u>पारसना</u>	न, D	ivisional Porest O
		एवं तोपचांची वन्यप्राणी आग	अयणी के अधिराचित ESZ के सीमा	<u>थ</u> से Divisional Fa	ivisional Poress Vidife Division, Hazi st Officer
	Note-	बाहर अवस्थित है।			By
	11010-	सरकार द्वारा प्रकाशित ESZ	ं समर्पित अभिलेख एवं GPS Point भार के अधिसूचना तथा आवेदित रथल	रत से	
		निकटतम संरक्षित क्षेत्र (Protect	ted Area) के आधार पर दी गयी है। 😕	Big	
L			(Aroun treat	ITING THE	
			- There aloga	Entr	
			A A A A A A A A A A A A A A A A A A A		
			A. OF		
			$\sim$		
			3		

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

JEPCE	Ð	JHARKH	AND STA	TE POLLUTI	ON CONTROL BO.	ARD		
				S	COMPLEX, DHURWA 2/2401847/2400979/24			
Ref	No.: JSPCB	/HO/RNC/CTE-1539	9804/2023/	128		Dated : 2023-02-23		
		sh (CTE) under sec 21 of the Air (Preve			vention & Control of Po ) Act, 1981	llution) Act, 1974		
1.	(A Unit of	DCBL ), Priya Ranja	an for conse	nt under section 25	23 of Bokaro Cement Ma 5/26 of the Water (Prever ion & Control of Pollutio	ntion & Control of		
2.	Documen	ts Relied Upon:						
	(a) The content of Environmental Clearance (EC) granted vide memo no. EC/SEIAA/2022-23/26462022/366, dated 30.01.2023.							
	(b) The content of Consent to Establish (CTE), vide ref. no. JSPCB/HO/RNC/CTE-12699959/2022/195, dated 28.04.2022 for the production of Cement - 2.0 Million TPA and D.G. Set of 1000 KVA (2 x 500 KVA ) as per EC valid for the period of one year.							
	(c) The content of check-list vide ref. no. 157, dated 09.02.2023.							
	(d) The co	) The content of copy of the land lease document issued by BIADA for 30 yrs. w.e.f. 28.10.2021.						
	(e) The co	ntent of certificate of	nt of certificate of DFO, vide ref. no. 2058, dated 28.11.2021.					
	(f) The co	ntent of undertaking i	regarding pr	ocurement of raw	material from valid source	es.		
	(g) The co	ntent of investment f	igure certifie	ed by CA.				
3. Proj	and under Mauza- G	nt is granted under se section 21 of the Air orabali, P S -Bokaro, Site-Area	(Prevention	& Control of Poll	wention & Control of Pol ution) Act, 1981 to establ	lution) Act. 1974 ish the project in Period of CTE		
			interioris com	(Rs)/ Year				
		Plot Nos.	Area					
In E	xpansion	Industrial Area Plot No. IV/A- 7(P)4,	15.75 Acre	35.50 Crore	Expansion of capacity:- Cement- 2.0 MTPA to 3.1 MTPA: DG set - 2x500=1000 KVA	As per EC		

#### (A) Specific Conditions:

1. That, the occupier shall make Work area and transport roads and approach road off the main road concrete/ black top.

2. That, the occupier shall install fixed type water sprinklers to cover all dusty places in the premises to impart water spraying intermittently.

3. That, the occupier shall make all roads pucca and shall maintain a good house keeping by regular cleaning and wetting of the roads and dust prone areas.

4. That, the occupier shall store all raw materials and products under shed and shall as far as practicable, do their processing and transfer under foolproof cover(s).

5. That, the occupier shall collect and treat the effluent in foolproof latest system and shall recycle treated effluent to the system for reuse and shall ensure no discharge of effluent out side the premises.

6. That, the occupier shall install air pollution control devices such as Dust Catcher, Cyclone Separator, Bag filters, Venturi Scrubber, ESP etc. in suitable combination to control the emission.

7. That, the occupier shall use fly ash and or fly ash bricks in construction of the project.

8. That, the occupier shall install only green D G Set(s) with acoustic enclosure and shall keep the height(s) of exhaust pipe(s) as per Central Pollution Control Board norm.

9. That, the occupier shall obtain NOC from Central Ground Water Authority as per the norms.

10. That, the occupier shall dispose the solid waste as per applicable norms.

11. That, the occupier shall dispose the hazardous waste as per applicable norms and shall obtain authorization under HoWM Rules' 2016.

12. That, the occupier shall adhere to ZLD.

13. That, the occupier shall devvelop greenery in an atleast 33 percent of area.

14. That, the occupier shall submit compliance of CTE and EC conditions on six monthly basis to JSPCB and other concerned organizations.

15. That, the occupier shall apply for CTO and shall submit compliance of CTE and EC conditions alongwith the photographs.

#### (B) General Conditions :

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

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

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

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

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

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

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

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

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

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

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

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

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

5. That, this CTE is being issued on the basis of information/ documents/ certificate submitted by the unit. This CTE will be revoked if any of the information/ documents/ certificates/ undertaking given by the occupier is found false/fictitious/forged in future.

6. This order shall be valid subject to compliance of all other legal requirements applicable to the unit.

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

This is issued with the approval of the competent authority

Yatindra Kumar Das 10:31:56 +05'30'

> (Yatindra Kumar Das) Member Secretary

Memo No. : JSPCB/HO/RNC/CTE-15399804/2023/128 Dated : 2023-02-23

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

Yatindra	Digitally signed by Yatindra
Kumar /	Kumar Das (Yatindra Kumar Das)
Das	Date: 2023.02.23 10:31:37 +05'30' Member Secretary

### CTO obtained from JSPCB Ranchi vide letter no.JSPCB/HO/RNC/CTO-13611071/2023/512 Dated 22.03.2023

hunda		JHAKKH	AND STA	TE POLLUTI	ON CONTROL BOA	RD		
JEPCE	TOWNS				COMPLEX, DHURWA, 00852/2401847/2400979			
Ref	No. JSPCB/H	HO/RNC/CTO-13611	071/2023/5	12	D	Dated : 2023-03-22		
	and the state of t	e (CTO) under section of the Air (Prevention			ention & Control of Pollu t, 1981	tion) Act, 1974 and		
1.	Name :Pri	ya Ranjan for consen	t under secti	ion 25 (1)(b)/25 (1	Cturing Works (A Unit of D ) (c)/26 of the Water (Preve evention & Control of Polh	ention & Control		
2.	Documen	nts Relied Upon:						
		ntent of Environment 022/366, dated 30.01.		e (EC) granted vid	e memo no. EC/SEIAA/202	22-		
	(b) The content of Consent to Establish (CTE), vide ref. no. JSPCB/HO/RNC/CTE-12699959/2022/195, dated 28.04.2022 for the production of Cement - 2.0 Million TPA and D.G. Set of 1000 KVA (2 x 500 KVA) as per EC valid for the period of one year.							
	(c) The content of Consent to Establish (CTE), vide ref. no. JSPCB/HO/RNC/CTE-15399804/2023/128, dated 23.02.2023 for the production of Expansion of capacity:- Cement - 2.0 MTPA to 3.1 MTPA; DG set - 2x500=1000 KVA for the period as per EC.							
	(d) The co	ontent of check-list via	le ref. no. 1	57, dated 09.02.20	23.			
	(d) The co	ntent of copy of the l	and lease do	cument issued by	BIADA for 30 yrs. w.e.f. 2	8.10.2021.		
	(e) The co	ntent of certificate of	DFO, vide	ref. no. 2058, date	d 28.11.2021.			
					material from valid sources	5		
	(g) The content of investment figure certified by CA.							
3.	and under		(Prevention	a & Control of Poll	evention & Control of Pollu ution) Act, 1981 to operate ows:			
Proj	ect Site-Area			Investment (Rs)	Product & Capacity	Period of CTO		
		Plot Nos.	Area			Date of issue To		
In E	xpansion	Industrial Area Plot No. IV/A7(P)4,	15.75 Acre	611.54 Crore	Cement- 3.1 MIPA, DG set - 2x500=1000 KVA [as per application]	31/03/2024		

#### (A) Specific Conditions:

1. That, the occupier shall make Work area and transport roads and approach road off the main road concrete/ black top.

2. That, the occupier shall install fixed type water sprinklers to cover all dusty places in the premises to impart water spraying intermittently.

3. That, the occupier shall make all roads pucca and shall maintain a good house keeping by regular cleaning and wetting of the roads and dust prone areas.

4. That, the occupier shall store all raw materials and products under shed and shall as far as practicable, do their processing and transfer under foolproof cover(s).

5. That, the occupier shall collect and treat the effluent in foolproof latest system and shall recycle treated effluent to the system for reuse and shall ensure no discharge of effluent out side the premises.

6. That, the occupier shall install air pollution control devices such as Dust Catcher, Cyclone Separator, Bag filters, Venturi Scrubber, ESP etc. in suitable combination to control the emission.

7. That, the occupier shall implement all pollution control measures as recommended in EIA/EMP.

8. That, the occupier shall comply the recommendations of CREP.

9. That, the occupier shall use all solid wastes as resource as a raw material or a product.

10. That, the occupier shall install only green D G Set(s) with acoustic enclosure and shall keep the height(s) of exhaust pipe(s) as per Central Pollution Control Board norms.

11. That, the occupier shall ensure 100 % transportation of raw material by rail and 70% product by rail.

12. That, the occupier shall adhere to Zero Liquid Dischare.

13. That, the occupier shall dispose the solid waste as per applicable norms.

14. That, the occupier shall dispose the hazardous waste as per applicable norms and shall obtain authorization under HoWM Rules' 2016.

15. That, the occupier shall install 24 x 7 continuous emission monitoring system at process stacks to monitor stack emission with respect to standards prescribed in Environment (Protection) Rules 1986 vide G.S.R no 612 (E) dated 25 August 2014 (Cement) and subsequent amendment dated 9th May 2016 (Cement) and connected to SPCB and CPCB online servers and calibrate these system from time to time

according to equipment supplier specification through labs recognized under Environment (Protection) Act 1986 or NABL accredited laboratories.

16. That, the occupier shall install system to carryout Ambient Air Quality monitoring for common/criterion parameters relevant to the main pollutants released (e.g. PM10 and PM2.5 in reference to PM emission, and SO2 and NOx in reference to SO2 and NOx emission) within and outside the plant area at an angle of 120-degree each) covering upwind and downwind directions.

17. That, the occupier shall install STP of adequate capacity and submit its report to the Board.

18. That, the occupier shall construct rain water harvesting system and shall operate and maintain the same.

19. That, the occupier shall submit ERP within six months along wit the compliance report.

20. That, the occupier shall provide Personal Protection Equipment (PPE) as per the norms of factory act.

21. That, the occupier shall upgrade the pollution control equipment as and when required.

22. That, the occupier shall submit compliance of EC and CTO conditions on six monthly basis to the Board.

23. That, the occupier shall submit applications for renewal of consent under section 25/26 of the Water (Prevention & Control of Pollution) Act, 1974 and under section 21 of the Air (Prevention & Control of Pollution) Act, 1981 again 120 days prior to the date of expiry of this consent with requisite fee and documents showing compliance of all of the above conditions.

#### (B) General Conditions :

(1) That, the occupier shall maintain the National Ambient Air Quality Standard given below:

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

#### (2) That, the occupier shall maintain the emission quality within the standard and the quantity, as follows:

SN	Parameter	Standard	
1	Particulate Matter	150 mg/Nm3	

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

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

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

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

(5) That, the occupier shall keep D G Set(s) within acoustic enclosure and shall keep the height(s) of exhaust pipe(s) as per Central Pollution Control Board norm.

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

(10)	That, this CTO is valid subjected to the validity of mining Lease/A Plan/Ecofriendly/Environmental Clearance, if applicable. In case of Lease/Mining Plan, this consent shall be treated as revoked autom	of no renewal o	of Mining						
(11)	That, this CTO is issued from the environmental angle only and do other statutory obligations prescribed under any other law or any c and complete responsibility to comply with these conditions laid d being in force, rests with the industry/ unit/ occupier.	other instrumer	it in force. The sole						
(12)	That, this CTO shall not in any way, adversely affect or jeopardize the legal proceeding , if any, instituted in the past or that could be , instituted against you by the State Board for violation of the provisions of the Act or the Rules made there under.								
(13)	That, the occupier shall comply with all applicable provisions of the Pollution) Act, 1974; the Water (Prevention & Control of Pollution) (Prevention & Control of Pollution) Act, 1981; and the Environment made there under.	n) Cess Act, 19	977; the Air						
4.	That, this CTO shall not absolve the occupier from making compl under any law or direction of courts or any other instrument for t								
4. 5.		he time being ents/ certificat	in force. te submitted by the						
	under any law or direction of courts or any other instrument for the That, this CTO is being issued on the basis of information/ docum- unit. This CTO will be revoked if any of the information/document	he time being ents/ certificat ts/certificates	in force. te submitted by the /undertaking given						
5.	under any law or direction of courts or any other instrument for the That, this CTO is being issued on the basis of information/docum- unit. This CTO will be revoked if any of the information/document by the occupier is found false/fictitious/forged in future.	he time being ents/ certificat ts/certificates equirements aj	in force. te submitted by the /undertaking given pplicable to the unit.						
5. 6.	under any law or direction of courts or any other instrument for the That, this CTO is being issued on the basis of information/document unit. This CTO will be revoked if any of the information/document by the occupier is found false/fictitious/forged in future. The Order shall be valid subject to compliance of all other legal re The State Board reserve the right to revoke, withdraw or make an	he time being ents/ certificat ts/certificates equirements aj ty reasonable Yatindra	in force. te submitted by the /undertaking given pplicable to the unit. variation / change / Digitally signed by Yatindra Kumar Das						
5. 6.	under any law or direction of courts or any other instrument for the That, this CTO is being issued on the basis of information/document unit. This CTO will be revoked if any of the information/document by the occupier is found false/fictitious/forged in future. The Order shall be valid subject to compliance of all other legal re The State Board reserve the right to revoke, withdraw or make an alteration in conditions of this consent.	he time being ents/ certificat ts/certificates equirements a ny reasonable Yatindra Kumar Da	in force. te submitted by the /undertaking given pplicable to the unit. variation / change / Digitally signed by Yatindra Kumar Das						
5. 6.	under any law or direction of courts or any other instrument for the That, this CTO is being issued on the basis of information/document unit. This CTO will be revoked if any of the information/document by the occupier is found false/fictitious/forged in future. The Order shall be valid subject to compliance of all other legal re The State Board reserve the right to revoke, withdraw or make an alteration in conditions of this consent.	he time being ents/ certificat ts/certificates equirements a ny reasonable Yatindra Kumar Da	in force. te submitted by the /undertaking given pplicable to the unit. variation / change / Digitally signed by Yatindra Kumar Das Date: 2023.03.22 S 18.09:48 +05'30' Yatindra Kumar Das						
5. 6. 7.	under any law or direction of courts or any other instrument for the That, this CTO is being issued on the basis of information/document unit. This CTO will be revoked if any of the information/document by the occupier is found false/fictitious/forged in future. The Order shall be valid subject to compliance of all other legal re The State Board reserve the right to revoke, withdraw or make an alteration in conditions of this consent.	he time being ents/ certificat ts/certificates equirements a ny reasonable Yatindra Kumar Da	in force. te submitted by the /undertaking given pplicable to the unit. variation / change / Digitally signed by Yatindra Kumar Das Date: 2023.03.22 18:09:48 +05'30'						

Yatindra Vatindra Kumar Das) Yatindra Vatindra Kumar Das Yatindra Kumar Das Yatindra Kumar Das Yatindra Kumar Das Yatindra Kumar Das

### **Annexure-V**

### Water permission letter from JIADA

झारखण्ड औद्योगिक क्षेत्र विकास प्राधिकार बोकारो प्रक्षेत्र, बियाडा भवन, बालीडीह, बी०एस०सिटी-14. email : mdbiadabokaro@gmail.com दिनांक : पत्रांक : सेवा मे, अवर प्रमण्डल पदाधिकारी, पेय जल एवं स्वच्छता अवर प्रमण्डल चास, बोकारो स्टील सिटी । विषय:- इकाई के जलापूर्ति के संबंध में। महाशय, दिनांक आपका उपर्युक्त विषय आलोक में इकाई सर्वश्री डालमिया सीमेंट (भारत) संख्या-क्षेत्र, बी0एस0सिटी-14 के 1.50 (एक लाख पचास हजार) लीटर प्रति दिन जल आपूर्ति दी 1 विश्वासभाजन, हेर्र क्षेत्रीय निदेशक जियाडा, बोकारो प्रक्षे जापांक : संख्या-प्रतिलिपि : सर्वश्री डालमिया सीमेंट (भारत) औद्योगिक क्षेत्र, बी०एस०सिटी–14 को सूचनार्थ प्रेषित । क्षेत्रीय निदेशक जियाडा, बोकारो प्र

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

Letter No. 36

Chas, Dated 13 4 22

To,

**Regional Director** BIADA, Bokaro

Sub: Regarding Water Connection for M/S Dalmia cement (Bharat) Ltd. under BIADA. Reference: Your letter no. 35 dated 25.01.22, 185 dated 05.04.22, this office letter no 24 dated 24.02.22 and agreement for water supply between unit and BIADA on dated 17.3.11

Madam.

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

Thanking You

Bokard

Sub-Divisional Office DWS Sub-Division, Sub

Memo No. 36 Bokaro/Date 13 4 22 Copy to: M/S Dalmia cement (Bharat) Ltd. for your information and further necessary action.

Sub-Divisional Officer DWS Sub-Division, Sub Bokaro

### Ambient Air Quality Monitoring report

IEM	Accred			tate Pollution			B atory (NABL)	vide TC-115	15
	Certified	and the second sec		5 (QMS) & IS				THE LO LLD	TE - 1
				Te	st Repo	rt			
ULR N		C 1 1	5	1 5	2 3	0	0 0	0 0	0 0 1 3
	line: Chemical			roup: Atmo				-Group: Am	
	t Issue Date: 25-0	3-2023					.: RN-23030		
Samp	le ID: 230321AP1	1005			Sam	le Descrip	tion: Ambie	ent Air	
Challa	n No./P.O. No.: 4	548023834/2	37		Chall	an No./ P.	No. Date: 1	7-09-2022	
lssue	d to: Bokaro Cem Plot No IV/A- Bokaro Steel	7(P)4, Bokar	o Indust	rial Area E	Balidih	a Cement	(Bharat) Lir	nited	
Туре	of Industry: Ceme				and the second se	omer Rep	resentative	: Sanjeev Ve	erma
Samp	le Drawn by: IEN	1 Team			Sam	ling Date:	18-03-2023	to 19-03-20	023
Proto	col: CPCB Guidelin	e(NAAQMS/	36/2012-	13) & IS M	ethod 518	32 Series			
Samp	ling Location: Gor	abali Near Te	mple						
	Meteorological In	and the second se		). (°C): 25			.C.: Cloudy		D.: NW to SE
Samp	le Receiving date:	21-03-2023	Т	esting Star	rted: 21-0	3-2023	Testing	Ended: 24-	-03-2023
				Te	st Results				
SI. No.	Parame	ters	Ter	st Method	No.	Unit		ns as per QS - 2009	Results
1.	Particulate Matt	er (PM <sub>10</sub> )		82 Part 23		µg/m		100	64.45
2.	Particulate Matt			82 Part 24		µg/m		60	28.26
3.	Sulphur Dioxide			5182 Part-	and the state of the	µg/m		80	10.79
4.	Nitrogen Dioxid			5182 Part- 5182 Part		µg/m		80 400	21.38
5.	Ammonia (NH <sub>3</sub> ) OZONE (O <sub>3</sub> )			5182 Part 5182 Part		µg/m µg/m		100	28.54
7.	ARSENIC (as A	(2)		SEPA I.O.		ng/m			BDL (MDL-02)
8.	LEAD (as Pb)		IS 5182 Part 22			µg/m		1.0	0.04
9.	NICKEL (Ni)		IS	5182 Part	26	ng/m			BDL (MDL-4)
					of Repor				
Env.C	ondition of Lab.	Laboratory testing are				e 27± 2°C	and Relative	Humidity (	55±5 % in all
Abbre	viation					elow Dete	ction Limit		
Limit	is Specified	As per the E		and the second second second second				1	
Rema	rk	Sample Co	mply wit	h prescrib	ed specifi	cation.			
	<b>d By:</b> Akanksha So ole Drawn By: Rajiv		& Team						
	ontractual Notes: - aboratory accepts responsit	allity for context of th	is report			Qualit	y Checked	Your Au	thorized Signatory
2. This r 3. This r 4. Any c	eport shall not be reproduc eport is intended for only gi omplaint about this report s liability of institute for Envir	ed except in full, with uidance and not for I should be communic	out written aj egal purpose sted in writing	or for advertisen within 7 days of	nent. Fits issue	Str.	Jo fil		
6. In cas	e of feedback/ complaints,	please send an ema	il at qm.ieme	co@gmail.com		(Sh	reya Sonah	Sent Sent Sent	(pr. S. C. Jain)
	is of Quality Checked and " y the Director of the Organi		d by the Autr	nonzed signatory	, тле герол	Dy. Qi	ality Manag	eRancin *	Director
	Corporate office	- A-8, Modi H	cights, Or	pAll India	Radio Stat	on, Ratu Re	ad, Ranchi, Jł	uarkhand - 8.	34001
				-			Iarmu Housir		



 Institute for Environmental Management

 Accredited by
 Jharkhand State Pollution Control Board, JSPCB

 National Accreditation Board for Testing Laboratory (NABL) vide TC-11515

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



### Test Report

ULR No	5,8.4	C 1	1	5	1	5	2	3	0	0	0		0	0	0	0	1	4
Discipline: Chemical Group: Atmosp							oheric Pollution Sub-Group: Ambient Air											
Report	Issue Date: 25	5-03-2023					Te	st Re	port N	lo.: R	N-230	0308	3001/	A06				_
Sample	e ID: 230321AF	P11006					Sample Description: Ambient Air											
Challar	n No./P.O. No.	: 454802383	34/237				Ch	Challan No./ P.No. Date: 17-09-2022										
ssued	Bokaro Ce Plot No IV/	ment Manu A-7(P)4, Bo eel City, Bol	karo I	ndust	rial A	rea Ba	lidih		emer	it (Bh	arat)	Lin	nited					
Type o	f Industry: Cer	and the second se							ner Re	pres	entat	tive:	Sanj	jeev '	Verm	а		
Sampl	e Drawn by: If	EM Team					Sa	mplin	ng Dat	e: 18	-03-2	023	to 19	9-03-	2023			
Protoc	ol: CPCB Guide		MS/36/	2012	13) &	IS Me												
	ing Location: F						_											
	Aeteorological				). (°C):	25 F	R.H. (%	6): 55	1	W.C.:	Clou	dv		V	N.D.:	NW te	SE	_
	e Receiving da					g Start			1000 C				Ende	ed: 2	4-03-	2023		
ampi	e neceiving ua	te. 21 05 20	125								100							
61				11		Test	Resu	115			N	lorn	16 30	ner		-		-
SI. No.	Para	meters		Te	est Me	ethod	No.	o. Unit		it	Norms as pe NAAQS - 200							
NO. 1.	Particulate M	atter (PM)		15 5	182 5	Part 23	2006	-	µg/i	m <sup>3</sup>			100	2005	-	67	.37	_
2.	Particulate M			IS 5182 Part 23:2				_	µg/i		-		60		-	1.000.00	.96	
3.	Sulphur Dioxi	1 247		IS 5182 Part 24:2 IS 5182 Part-0				-	μ <u>9/</u>		80			-		.54		
4.	Nitrogen Diox	A	-	IS 5182 Part-0					hg/i		80					5.27		
5	Ammonia (N			IS 5182 Part 2				-	µg/i	m <sup>3</sup>	400				15.48			
6.	OZONE (O3)	13/						-	µg/i	m <sup>3</sup>				100			.03	
		101		IS 5182 Part 0				-	ng/i		-					BDL (MDL-0		
7.	ARSENIC (as		-	USEPA I.O. 3.				-	Hg/I	m <sup>3</sup>	-	_	1.0		-		.05	121
8.	LEAD (as Pb	)		IS 5182 Part 2 IS 5182 Part 2					ng/i	m <sup>3</sup>	-		1.0		-	BDL (		11
9.	NICKEL (Ni)			1												DUL	VIDL	-)
		Listeres	· · · · · · · · · · · · · · · ·	o serve the		End o				Cand	Dolo	+1110	Uum	Idies		E 04 1.	- 11	
Env.Co	ondition of Lat	. Labora testing						ure 2	/ I 20	L and	Rela	tive	nun	nany	yoar	5 %0 H	an	
Abbrey	viation	MDL: M						: Bel	ow De	tectio	on Lir	mit						_
	s Specified	As per t																
Remar		Sample		Participation (Carlos Carlos C				24	1000									_
	d By: Akanksha le Drawn By: Ra		ngh & T	eam														
ocific Co	ontractual Notes: -								Our	lity C	hock	(ash	vonm	entar	Althou	rized S	Signal	on
1. The lat 2. This re 3. This re	port shall not be repro- port shall not be repro- port is intended for on implaint about this repr	duced except in full ly guidance and no	II, without ot for legal	written a purpose	or for ad	lvertiseme	nt. s issue		SL	my c	~			3	inagem,			
<ol> <li>Total liability of Institute for Environmental Management will be limited to invoiced amore.</li> <li>In case of feedback/ complaints, please send an email at qm.iemeco@gmail.com</li> </ol>					iount onl	y	10	Shreya	102 5	130	-	1	the	. S. C	Jain	0		
	e of feedback/ complai s of Quality Checked a						he repor	t	225 13	5-3 N.	5 09567	10	Ran	di j	A.C.	Constant of the	1	<u>.</u>
	the Director of the Org							-	Dy, G	Qualit	y Ma	nage	3	-		Direc	or	
	Corporate off														8340	01		
	Labor	atory Site - H		Rano	chi-83	4002, J	harkh	and, I	ndia				g Col	ony,				
9001:2015 45001:2018		Ph - 84	078041							rediffr	nail.co	om						



 Institute for Environmental Management

 Accredited by
 Jharkhand State Pollution Control Board, JSPCB

 National Accreditation Board for Testing Laboratory (NABL) vide TC-11515

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



### Test Report

Plot No IV/A-7	007 548023834/ rt Manufac '(P)4, Boka City, Boka nt Team e(NAAQMS,	cturing Works, Ur ro Industrial Area ro-827014 Jharkh	nit of D a Balidi and Inc	Test Repo Sample Do Challan N almia Cer ih dia	rt No.: escripti o./ P.N ment (E		A07 ir 2022	ent Air	
D: 230321AP11 lo./P.O. No.: 45 D: Bokaro Ceme Plot No IV/A-7 Bokaro Steel ndustry: Cemer Drawn by: IEM CPCB Guideline Location: Near teorological Inf	007 548023834/ rt Manufac '(P)4, Boka City, Boka nt Team e(NAAQMS,	cturing Works, Ur ro Industrial Area ro-827014 Jharkh	nit of D a Balidi and Inc	Sample D Challan N almia Cer ih dia	escripti o./ P.N nent (E	on: Ambient Ai o. Date: 17-09- Bharat) Limited	ir 2022		
lo./P.O. No.: 45 D: Bokaro Ceme Plot No IV/A-7 Bokaro Steel ndustry: Cemer Drawn by: IEM CPCB Guideline Location: Near teorological Inf	nt Manufac (P)4, Boka City, Boka nt Team e(NAAQMS	cturing Works, Ur ro Industrial Area ro-827014 Jharkh	nit of D a Balidi and Ind	Challan N almia Cer ih dia	o./ P.N nent (E	o. Date: 17-09- Bharat) Limited	2022		
Bokaro Ceme Plot No IV/A-7 Bokaro Steel ndustry: Cemer Drawn by: IEM CPCB Guideling Location: Near teorological Inf	nt Manufac ('P)4, Boka City, Bokan tt Team e(NAAQMS)	cturing Works, Ur ro Industrial Area ro-827014 Jharkh	nit of D a Balidi and Inc	almia Cer ih dia	nent (E	Bharat) Limited			
Bokaro Ceme Plot No IV/A-7 Bokaro Steel ndustry: Cemer Drawn by: IEM CPCB Guideling Location: Near teorological Inf	r <b>(P)4, Boka</b> City, Bokan nt Team e(NAAQMS	ro Industrial Area ro-827014 Jharkh	a Balidi and Ind	ih dia			l		
ndustry: Cemer Drawn by: IEM CPCB Guideline Location: Near teorological Inf	nt Team e(NAAQMS,				. D.				
Drawn by: IEM CPCB Guideline Location: Near teorological Inf	Team e(NAAQMS,	12012222			Repre	sentative: San	jeev Veri	ma	
Location: Near teorological Inf		120 12012 121 0 10				8-03-2023 to 1			
Location: Near teorological Inf		/30/2012-13) & IS							
teorological Inf									
	ormation	A. Temp. (°C): 28	BH	(%): 69	W.C	.: Cloudy	W.D	.: NW to !	SE
ecciving date:			Testing Started:			Testing End		201000000000000000000000000000000000000	
	21-03-2023		A STATISTICS OF THE	sults		resting thu	cu. 24 0	2023	
			A 8 7 10 10 10 10			Norms as p	er		
Paramet	ers	Test Method	d No.	U	nit	NAAQS - 20		Resul	ts
articulate Matte	r (PM-n)	IS 5182 Part 2	3 2006	μα	/m <sup>3</sup>	100		68.5	1
						60			
CONTRACTOR OF A DESCRIPTION OF A DESCRIP									
the second se	1			10	$/m^3$	80			
	(							and the second se	
and a product of the local data and		contraction of the second second second second	in the second second				-	111-12	
1	()								
the second se	.,								and the second
and the second se						1.0			
						-			- 1
	Laborator				200 ar	d Relative Hun	idity 65	+5 % in :	411
dition of Lab.					- w u di	a nerative fran	many ou		10.5
tion			and a second data and the second data		Detect	ion Limit			
Specified	As per the l	Environmental (Prote	ection) R	ule - 1986					
					n.				
		& Team							
actual Notes: - tory accepts responsibil	lity for content of	this report.		(	Quality	Checked by wro	nmeAyth	orized Sig	gnatory
t is intended for only gui aint about this report sh ty of Institute for Enviro	dance and not for ould be communi nmental Manager	r legal purpose or for adverti	tisement. ys of its issu ced amount	ue i	> ~	ya Sonaly		S. C. J	Jain)
Charles Cheeled and T.	echnical data veri ation.	fied by the Authorized signal	itory the re	port		lity Manager	Ranchi	Directo	
	articulate Matte ulphur Dioxide itrogen Dioxide mmonia (NH <sub>3</sub> ) ZONE (O <sub>3</sub> ) RSENIC (as As EAD (as Pb) ICKEL (Ni) dition of Lab. tion Specified y: Akanksha Sou Drawn By: Rajiv I ctual Notes: - tory accerts responsib shall not be reproduce s intended for only gui	ZONE (O <sub>3</sub> ) RSENIC (as As) EAD (as Pb) ICKEL (Ni) dition of Lab. Laborator testing ar tion MDL: Min Specified Sample Co y: Akanksha Sourabh Drawn By: Rajiv Kumar Singh ctual Notes: - tory accepts responsibility for content of i shall not be reproduced except in full, w is intended for only guidance and not for	articulate Matter (PM <sub>2.5</sub> ) IS 5182 Part 2 ulphur Dioxide (SO <sub>2</sub> ) IS 5182 Part itrogen Dioxide (NO <sub>2</sub> ) IS 5182 Part itrogen Dioxide (NO <sub>2</sub> ) IS 5182 Part ZONE (O <sub>3</sub> ) IS 5182 Part ZONE (O <sub>3</sub> ) IS 5182 Part ZONE (O <sub>3</sub> ) IS 5182 Part RSENIC (as As) USEPA I.O. EAD (as Pb) IS 5182 Part ICKEL (Ni) IS 5182 Part ICKEL (Ni) IS 5182 Part Laboratory is maintaining testing area as per IS 196:1 tion MDL: Minimum Detection L Specified As per the Environmental (Proto Sample Comply with prescription y: Akanksha Sourabh Drawn By: Rajiv Kumar Singh & Team	articulate Matter (PM2 s)       IS 5182 Part 24:2019         ulphur Dioxide (SO2)       IS 5182 Part 20         itrogen Dioxide (NO2)       IS 5182 Part 00         itrogen Dioxide (NO2)       IS 5182 Part 25         ZONE (O3)       IS 5182 Part 25         ZONE (O3)       IS 5182 Part 09         RSENIC (as As)       USEPA I.O. 3.2         EAD (as Pb)       IS 5182 Part 22         ICKEL (Ni)       IS 5182 Part 26        End of F         Jition of Lab.         Laboratory is maintaining Temper         testing area as per IS 196:1966(C         tom MDL: Minimum Detection Limit, B         Sample Comply with prescribed sp         y: Akanksha Sourabh         Drawn By: Rajiv Kumar Singh & Team         ctual Notes: -         toy accepts responsibility for content of this report.         shall not be reproduced except in full, without writen approval of the MD         s intended for only guidance and not for legal purpose or for adverisement.	articulate Matter (PM <sub>2.5</sub> ) IS 5182 Part 24:2019 µg ulphur Dioxide (SO <sub>2</sub> ) IS 5182 Part-02 µg itrogen Dioxide (NO <sub>2</sub> ) IS 5182 Part-06 µg mmonia (NH <sub>3</sub> ) IS 5182 Part 25 µg ZONE (O <sub>3</sub> ) IS 5182 Part 25 µg RSENIC (as As) USEPA I.O. 3.2 ng EAD (as Pb) IS 5182 Part 22 µg ICKEL (Ni) IS 5182 Part 26 ngEnd of Report dition of Lab. Laboratory is maintaining Temperature 27± testing area as per IS 196:1966(C). tion MDL: Minimum Detection Limit, BDL: Below Specified As per the Environmental (Protection) Rule – 1986 Sample Comply with prescribed specificatio y: Akanksha Sourabh Drawn By: Rajiv Kumar Singh & Team	articulate Matter (PM2 s)       IS 5182 Part 24:2019       µg/m³         ulphur Dioxide (SO2)       IS 5182 Part-02       µg/m³         itrogen Dioxide (NO2)       IS 5182 Part-06       µg/m³         mmonia (NH3)       IS 5182 Part 25       µg/m³         ZONE (O3)       IS 5182 Part 25       µg/m³         ZONE (O3)       IS 5182 Part 25       µg/m³         RSENIC (as As)       USEPA I.O. 3.2       ng/m³         EAD (as Pb)       IS 5182 Part 22       µg/m³         ICKEL (Ni)       IS 5182 Part 26       ng/m³         ICKEL (Ni)         Laboratory is maintaining Temperature 27± 2°C art testing area as per IS 196:1966(C).         tion         MDL: Minimum Detection Limit, BDL: Below Detect         Sample Comply with prescribed specification.         y: Akanksha Sourabh         Drawn By: Rajiv Kumar Singh & Team         Quality         ctual Notes: -         Quality         Shall not be reproduced except in full, without written approval of the MD         s intended for only guidance and not for legal purpose of for adverisement.	articulate Matter (PM2 6)       IS 5182 Part 24:2019       µg/m³       60         ulphur Dioxide (SO2)       IS 5182 Part-02       µg/m³       80         itrogen Dioxide (NO2)       IS 5182 Part-06       µg/m³       80         mmonia (NH3)       IS 5182 Part 25       µg/m³       400         ZONE (O3)       IS 5182 Part 25       µg/m³       400         ZONE (O3)       IS 5182 Part 25       µg/m³       100         RSENIC (as As)       USEPA I.O. 3.2       ng/m³          EAD (as Pb)       IS 5182 Part 22       µg/m³       1.0         ICKEL (Ni)       IS 5182 Part 26       ng/m³          Ition of Lab.       Laboratory is maintaining Temperature 27± 2°C and Relative Hun testing area as per IS 196:1966(C).          Ition       MDL: Minimum Detection Limit, BDL: Below Detection Limit       Specified         As per the Environmental (Protection) Rule – 1986       Sample Comply with prescribed specification.         y: Akanksha Sourabh       Orawn By: Rajiv Kumar Singh & Team       Quality Checked by woold the MD, is intende for only guidance and not for lega purpose of for adverisement.       Quality Checked by woold the MD, is intende for only guidance and not for lega purpose of for adverisement.	articulate Matter (PM25)       IS 5182 Part 24:2019       µg/m³       60         ulphur Dioxide (SO2)       IS 5182 Part-02       µg/m³       80         itrogen Dioxide (NO2)       IS 5182 Part-06       µg/m³       80         mmonia (NH3)       IS 5182 Part 25       µg/m³       400         ZONE (O2)       IS 5182 Part 25       µg/m³       400         ZONE (O2)       IS 5182 Part 25       µg/m³       100         RSENIC (as As)       USEPA I.O. 3.2       ng/m³          EAD (as Pb)       IS 5182 Part 22       µg/m³       1.0         ICKEL (Ni)       IS 5182 Part 26       ng/m³          ICKEL (Ni)       IS 5182 Part 26       ng/m³          Ition of Lab.       Laboratory is maintaining Temperature 27± 2°C and Relative Humidity 65       testing area as per IS 196:1966(C).         tion       MDL: Minimum Detection Limit, BDL: Below Detection Limit       Specified         As per the Environmental (Protection) Rule – 1986       Sample Comply with prescribed specification.         y: Akanksha Sourabh       Ouality Checked by tot montain shall not be reprodued except in full, without writen approval of the MD is minet approval of the MD is minet and not for legal purpose or for adverisement.       Quality Checked by tot montain shall not be reprodued except in full, without writen approval of the MD is m	articulate Matter (PM <sub>2.6</sub> ) IS 5182 Part 24:2019 µg/m <sup>3</sup> 60 34.00 ulphur Dioxide (SO <sub>2</sub> ) IS 5182 Part-02 µg/m <sup>3</sup> 80 14.14 itrogen Dioxide (NO <sub>2</sub> ) IS 5182 Part-06 µg/m <sup>3</sup> 80 28.24 mmonia (NH <sub>3</sub> ) IS 5182 Part 25 µg/m <sup>3</sup> 400 19.20 ZONE (O <sub>3</sub> ) IS 5182 Part 29 µg/m <sup>3</sup> 100 25.14 RSENIC (as As) USEPA I.O. 3.2 ng/m <sup>3</sup> BDL (MD EAD (as Pb) IS 5182 Part 22 µg/m <sup>3</sup> 1.0 0.03 ICKEL (Ni) IS 5182 Part 26 ng/m <sup>3</sup> BDL (MD End of Report fition of Lab. Laboratory is maintaining Temperature 27± 2°C and Relative Humidity 65±5 % in a testing area as per IS 196:1966(C). tion MDL: Minimum Detection Limit, BDL: Below Detection Limit Specified As per the Environmental (Protection) Rule – 1986 Sample Comply with prescribed specification. y: Akanksha Sourabh Drawn By: Rajiv Kumar Singh & Team

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

ISO 9001:2015



 Institute for Environmental Management

 Accredited by
 Jharkhand State Pollution Control Board, JSPCB

 National Accreditation Board for Testing Laboratory (NABL) vide TC-11515

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



### Test Report

ULR No			1	1	5	1	5	2	3	0	0	0	0	0	0	0	1	5
							beric Pollution Sub-Group: Ambient Air Test Report No.: RN-230308001A07											
Report	Issue Date:	25-03-20	23				_	Te	st Rep	port N	lo.: R	N-230	308001	A07				
Sample	e ID: 230321/	AP11007						Sa	Sample Description: Ambient Air									
Challar	No./P.O. No	o.: 45480	023834	/237				Ch	Challan No./ P.No. Date: 17-09-2022									
ssued	to: Bokaro C Plot No IN Bokaro S	//A-7(P)	4, Boka	aro Ind	lustr	ial A	rea Ba	lidih		emen	it (Bh	arat)	Limited	1				
	f Industry: Co							Cu	istom	er Re	pres	entati	ve: San	jeev	Verma	a		
Sample	e Drawn by:	IEM Tea	m					Sa	mplin	g Dat	e: 18-	03-20	)23 to 1	9-03-	2023			
Protoc	ol: CPCB Guid	deline(N	AAQMS	5/36/20	)12-:	13) &	IS Me	thod.	5182 9	Series				_				
Sampli	ng Location:	khutri V	illage			_	_										_	
Field N	leteorologica	al Inform	nation	A. T	emp	(°C):	28 F	L.H. (%	6): 69	1	w.c.:	Cloud	ly	1	N.D.:	NW to	SE	
Sample	Receiving d	ate: 21-0	03-202	3	Te	esting	Start	ed: 23	1-03-2	023		Test	ing End	led: 2	4-03-	2023		
						-	Test	Resu	Its									
SI. No.	Para	ameters			Test Method No.				Unit			Norms as per NAAQS - 2009			Results			
1.	Particulate M			IS	IS 5182 Part 23:200			06		ug/m <sup>3</sup>			100			62.		
2.	Particulate N			IS		and the second second	24:20	0.00000000		ug/m <sup>3</sup>			60			31.	-	
3.	Sulphur Dio:						art-02			ug/m <sup>3</sup>			80			12.	_	
4.	Nitrogen Dic	the second s	D <sub>2</sub> )		IS 5182 Part-06					ug/m <sup>3</sup>		_	80			26.	727	
5.	Ammonia (N			-	and the second se	and the second second	Part 25		1	ug/m <sup>3</sup>		400				17.		
6.	OZONE (03		_				Part 09			µg/m <sup>3</sup>		100				21.		
7.	ARSENIC (a						0.3.2			ng/m <sup>3</sup>					BDL (MDL-02		2)	
8.	LEAD (as P			_		and the second s	Part 22		-	ug/m <sup>3</sup>			1.0			0.0		
9.	NICKEL (NI)	)		1	IS 5182 Part 26				ſ	ng/m <sup>3</sup>					E	DL (N	IDL-	4)
Abbrev	ondition of La viation	ab. te M	sting a DL: Mir	rea as 11mum	per l Dete	ainin S 19( ectior	5:1966 1 Limit	perat (C). , BDI	ure 2 : Belo	7± 2° w De			ive Hur tit	nidity	y 65±!	5 % in	all	
	s Specified		per the					-										
Remar	k	Sa	mple C	omply	with	pres	cribed	l spec	ificat	ion.		_					_	
Sample ecific Con	I By: Akanksha e Drawn By: F	Rajiv Kum	ar Singl							Qua	lity Cł	necke	d by	- to	Futtor	ized S	Signa	atory
<ol> <li>This rep</li> <li>This rep</li> <li>This rep</li> <li>Any cordination</li> <li>Total liagonities</li> <li>In case</li> <li>In the basis</li> </ol>	cort shall not be rep cort is intended for o mplaint about this re ability of institute for of feedback/ compl of Quality Checked	roduced exci only guidance port should t Environmen aints, please and Technic	ept in full, v e and not fo be communital Manage send an e	vithout writ or legal pur nicated in v ment will I mail at om	tten ap pose o writing i be limit liemeo	r for adi within 7 ed to inv o@gma	/ertiseme days of it: loiced am il.com	s issue ount oni	200 III		- Heya hkeya	12-12					Jair	-
	the Director of the C Corporate of	organization.									Quality		1	Rank	**************************************		or	
	Labo	oratory Sit		J	lanch	i-834	002, JI	arkha	ind, In	dia				ony,				
001:2015 001:2018		Fh	- 8407	804253	8,840	07804	251, E	mail -	iem20	112@r	ediffm	ail.com	m					

## LIST OF POLLUTION CONTROL EQUIPMENTS (BAG FILTERS)

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

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

	BOKARO CEMENT MANUFACTURING WORKS, (A unit of DALMIA CEMENT BHARAT LIMITED)								
	LIST OF POLLUTION CONTROL EQUIPMENTS								
S. No.	Location	Description	Application	Design dust Emission (mg/Nm3)	Volume of bag filter (m3/h)	Fan Volume	Outlet dust Emission (mg/Nm3)		
30	646BF2	Packing Plant	Cement	10	35000	40250	≤ 30		
31	647BF2	Packing Plant	Cement	10	35000	40250	≤ 30		

## **Compliance of CREP Conditions**

### BOKARO CEMENT MANUFACTURING WORKS

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

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

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

## Annexure-IX

# GROUND WATER LEVEL REPORT OF SURROUNDING VILLAGES FROM OCTOBER 2022 TO MARCH 2023

Location	Coordinate of Site	Distance from Plant site (KM)		De	epth from gro	und (feet)		
			October-	November-	December-	January-	February-	March-
		Month	2022,	2022,	2022,	2023,		
Pakhriatand								
(Near	23070'5590"N							
Anganwadi)	86006'2678" E	1	13'9"	14'5"	19'8"	21'7"	21'9"	22'3"
Tupkadi (Near	23071'3362"N							
Electric Pole)	86006'1573" E	1	12'0"	12'7"	16'9"	19'6"	20'2"	20'1"
Godawali (Near	23068'7751"N							
Temple)	86006'0031" E	1	3'6"	3'9"	6'3"	8'3"	8'6"	8'5"
Bhutkuru (Near	23070'4642"N							
primary School)	86005'1418" E	1	13.1'"	14'3"	17'1"	18'1"	19'5"	19'6"

# GROUND WATER QUALITY REPORT NEAR VILLAGE AREA

IEM		Accredite		Jharkhand S					NADI	) wide TC 11	515	
		Certified B		National Acc ISO 9001:201	and a second	and the second se	a contraction of the local division of the l	Laborator	Y (INABI	L) vide TC-11	515	TC .
	-	and the second				est Rep						
	No.:	тс	1	1 5	1 5	2 3	0	0	0 (			5
	ipline: Chen				Group: V		10			Group: Grou		
	ort Issue Da		-2023				Test R	eport No		30308001G		
	ple ID: 2303									Fround Wat	and the state of the state of the	)
Chal	llan No./P.C	. No.: 45	4802383	4/237			Challa	n No./ P	No. Da	te: 17-09-20	022	
lssu	ed to: Dalmi Bokar	a Cemen o Indust	t (Bhara rial Area	t) Ltd. (Jha , PO-Balid	rkhand C ih, Dist: -	ement W Bokaro, .	orks) Jharki	Plot IV/A and 827	-7(P), 7014			
Туре	e of Industry	: Cemen	t				Custo	mer Rep	present	ative: Sanje	ev Verma	
Sam	ple Drawn	by: IEM	Team				Samp	ling Date	: 19-03	-2023		
Prot	ocol: CPCB	Guideline	& IS Met	hod 3025 P	art-01							
	pling Locati											
	d Meteorolo				. (°C): 27	R.H. (%)		W.C.: C			.: North to S	South
Sam	ple Receivin	ng date: 2	21-03-202	23 T		arted: 21-0		23	Testin	g Ended: 24	-03-2023	
					1	fest Resul	t		1 1 14			
SI. No.	Test	ed Paran	neter	Unit	Meth	od No.		cceptabl	Limit	ermissible	Res	ults
1.	pH value a	t 25°C			IS 3025	(Part-11)		6.5 - 8.5	-	Relaxation	7.0	9
2.	Turbidity			NTU		(Part-10)		1		5	4.	
3.	Colour			Hazen	IS 3025	(Part-04)		5		15	5.	0
4.	Odour					(Part-05)	A	greeable		Agreeable	Agree	
5.	Total Diss		ids (TDS)			(Part-16)	-	500		2000	693	
6.	Calcium (a		20000	mg/l	the second se	(Part-40)		75		200	110	and the second se
7.	Total Alkal Total Hard			mg/l mg/l		(Part-23) (Part-21)		200		600 600	452	
8. 9.	Chloride (a		<b>Gau</b> (03)	mg/i		(Part-21) (Part-32)	-	250		1000	89.	
	Free Resid		rine	mg/l		(Part-26)		0.2		1.0	BDL(M	
11.	and the second designed and th	and the second se		mg/l		(Part-24)		200		400	95.	
12.	Magnesiur	n (as Mg-	+2)	mg/l		(Part-46)		30		100	42.	77
			Trat			ND Repor		200	a la church	وم رامالها ما	+ 5 0/ 111 -	
Env.	Condition	of Lab.		per IS 196		emperatur	e 27±	2°C and F	elative	Humidity 65	15% in all t	esting
Abbr	reviation			linimum De		mit, BDL: I	Below	Detectio	n Limit			
	t is Specifie	d		0 :2021								
Rem	ark		Sample	Comply w	ith presci	ribed spec	ificati	on.	_	_		
	ted By: Anshu nple Drawn By		mar Singh	& Team								
1. The	Contractual Not	ts responsibilit					(	Quality C	hecked	Denvironmen	with orized S	ignator
3. Thi 4. Any 5. Tot	is report shall not t is report is intende y complaint about tal liability of Institu case of feedback/	d for only guid this report sho ite for Environ	lance and not build be comm mental Manag	for legal purpose unicated in writin rement will be lin	e or for advertis g within 7 days nited to invoice	ement. of its issue d amount only.	2	Shory (Shrey	a Sonal			Jain)
n the b	basis of Quality Ch d by the Director of	ecked and Ter	chnical data v				C	Dy. Qualit	1.1.2.2.2	1. +	Direct	or
			NOT NOT		10000	COMP. NAMES	10000			Iharkhand - 8	334001	
		Laboratory	y Site - H.1	No. – A-13, S Ran		, Near Sohr 2, Jharkhar			nu Hous	ing Colony,		

		Accredited	l by	Jharkhand	State Pollution Cont	rol Board, JSPCB		IENE				
	- All	Certified by			015 (Quality Manageme 2018 (Occupational He	Management System ) tional Health & Safety Management System )						
2		S.		3	Test Re							
Disc	ipline: Ch	emical		÷	Group: Water	-	Sub-Group: Ground	Water				
		Date: 27-03-20				and the second se	: RN-230308001GW1					
		0321WA0100	_		Sa di la		tion: Ground Water					
	Ilan No./P red to:	.O. No.: 4548	023834	4/237	71000	Challan No./ P.M	lo. Date: 17-09-2022	2				
551	Dalr				irkhand Cement V ih, Dist: - Bokaro,							
		try: Cement			18	Customer Repr	esentative: Sanjeev	Verma				
		n by: IEM Tea	and the second second	-	68.21.5.1	Sampling Date:	19-03-2023	di la				
		B Guideline&	1000	hod 3025 F	Part-01	Contraction of the	Employed					
		ation: Bhutkur		A Tom	1001 27 D.H. m		udu lau put	loth to South				
_		ological Inform			esting Started: 21		resting Ended: 24-03	North to South				
dil	pie kecen	mg uate: 21-	05-202		Test Resu	and the second se	esting chued: 24-03	-2023				
SI.		ated Devenuet		11-14			imit	Pearitte				
lo.	1	sted Paramet	er	Unit	Method No.	Acceptable	Permissible	Results				
1.	Taste Nitrate (a	NO3	-	mg/l	IS 3025 (Part-07) IS 3025 (Part-34)		Agreeable No Relaxation	Agreeable 8.30				
3.	Fluoride			mg/l	IS 3025 (Part-60)		1.5	1.09				
	-		1.00		END Repo			100 C 100 C				
.imi Rem	Condition reviation it is Specificark ted By: Ansi	fied I	NDL: M S 1050	per IS 196 linimum De 0 :2021	:1966(C). tection Limit, BDL: ith prescribed spe		Limit					
Limi Rem Tes	reviation It is Specificark Led By: Ansl	fied I	area as MDL: M S 10500 Sample	per IS 196 Inimum De 0 :2021 Comply w	tection Limit, BDL:	Below Detection	Limit	A A A A A A A A A A A A A A A A A A A				
Limi Rem Sam Sam Sam Sam Sam Sam	c Contractual N is report is inten y complaint abo	totes: -	r content o e a dont to be communications of the content of e and not fibe be communication and the send an et asend an et the be communication and the be communication and the transmission and the transmission and tr	per IS 196 inimum De 0 :2021 Comply w & Team & Team	tection Limit, BDL: ith prescribed spe proval of the MD. or for advertisement. g within 7 days of its issue liked to invoiced amount only	Below Detection cification. Quality Che	Ecked by	norized Signato				

	Accredite			d State Pollution		JSPCB Laboratory (NABL) vide	TC-11515
	Certified B			2015 (QMS) & ISO		euconatory (rande) mat	TC-1
				Tes	t Report		
ULR N	o.: T C		Residu	1 5 and Contami	2 3 0		0 0 0 0 7 ace Metals elements
	t Issue Date: 27-03-2		Residu	es and contain		t No.: RN-230308001	
	e ID: 230321RC0100					scription: Ground Wa	and the second se
Challa	n No./P.O. No.: 454	8023834	237		Challan No	/ P.No. Date: 17-09-	2022
Issue	d to: Dalmia Cement Bokaro Industri						
Type	of Industry: Cement					Representative: San	ieev Verma
	le Drawn by: IEM Te					Date: 19-03-2023	-
Proto	col: IS Method & CPC	B Guidel	ine				
	ing Location: Bhutku						
	Meteorological Infor			np. (°C): 27	R.H. (%): 61	W.C.: Cloudy	W.D.: North to South
sampl	e Receiving date: 21	-03-2023	Test	ting Started: 21	-03-2023 t Result	Testing Ended:	24-03-2023
SI. No.	Tested Parameter	Un	it	Method		Limits	Results
1.	Copper	mg	/1	APHA 3111	B.2017	0.5-1.5	BDL (MDL - 0.01)
2.	Chromium	mg	/I	APHA 3111	B.2017	0.05 - No Relaxation	BDL (MDL - 0.04)
3.	Lead (Pb)	mg	/I	APHA 3111	B.2017	0.01 - No Relaxation	BDL (MDL - 0.04)
4.	Manganese (Mn)	mg	/I	APHA 3111		0.1 - 0.3	BDL (MDL - 0.08)
C	condition of Lab.			and the second se	Report		
Env. C	condition of Lab.			6:1966(C).	erature 2/± 2	c and Relative Humid	ity 65±5 % in all testing
	viation			Detection Limit,	BDL: Below D	etection Limit	
Remai	is Specified	IS 10500 Sample		with prescribe	specificatio	n.	
	ed By: Anshu Gupta ple Drawn By: Rajiv Kur	mar Singh	& Team				
			this report	10		Quality Checked by	Authorized Signator
1. The 2. This 3. This 4. Any	Contractual Notes - laboratory accepts responsibilit report shall not be reproduced report is intended for only guid complaint about this report sho i liability of Institute for Environ	except in full, ance and not uld be commu	without writ for legal pur inicated in v	ten approval of the MD. pose or for advertiseme writing within 7 days of it	nt. s issue	Sougentie	SP. ENG
1. The 2. This 3. This 4. Any 5. Tota 6. In c	laboratory accepts responsibilit report shall not be reproduced report is intended for only guid complaint about this report sho il liability of institute for Environ ase of feedback/ complaints, ple	except in full, lance and not build be commu- mental Manag- ease send an	without writ for legal pur inicated in v ement will t email at qm	ten approval of the MD. pose or for advertiseme writing within 7 days of it be limited to invoiced an iemeco@gmail.com	nt. s issue	(Shreya Sona)	De C. Jain)
1. The 2. This 3. This 4. Any 5. Totz 6. In ci On the ba	laboratory accepts responsibilit report shall not be reproduced report is intended for only guid complaint about this report sho il liability of Institute for Environ	except in full, lance and not build be commu- mental Manag aase send an chnical data ve	without writ for legal pur inicated in v ement will t email at qm	ten approval of the MD. pose or for advertiseme writing within 7 days of it be limited to invoiced an iemeco@gmail.com	nt. s issue		(Dar J. C. Jain) Rancha * Oirector
1. The 2. This 3. This 4. Any 5. Totz 6. In ci On the ba	laboratory accepts responsibilit report shall not be reproduced report is intended for only guid complaint about this report sho il liability of Institute for Environ ase of feedback/ complaints, ple sis of Quality Checked and Tec by the Director of the Organizat	except in full, lance and not build be commu- mental Manag ease send an chnical data ve tion.	without writ for legal pur inicated in v ement will b email at qm erified by the	ten approval of the MD. pose or for advertiseme writing within 7 days of it a limited to invoiced an iemeco@gmail.com a Authorized signatory, 1	nt. s issue iount only.	(Shreya Sonal	Rancti * Director



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

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

Test Report

		lest Report				
Discipline: Chemical	Group: Residues and	Contaminants in Water	Sub-Group: Trace Metals elements			
Report Issue Date: 27-03	3-2023	Test Report No	.: RN-230308001GW1			
Sample ID: 230321RC01001		Sample Description: Ground Water (Dug well)				
Challan No./P.O. No.: 45	548023834/237	Challan No./ P	.No. Date: 17-09-2022			
	nt (Bharat) Ltd. (Jharkhar trial Area, PO-Balidih, Di					
Type of Industry: Cemer	nt	Customer Rep	resentative: Sanjeev Verma			
Sample Drawn by: IEM	Team	Sampling Date	: 19-03-2023			
Protocol: IS Method & C	PCB Guideline					

Sampling Location: Bhutkuru 
 Field Meteorological Information
 A. Temp. (\*C): 27
 R.H. (%): 6

 Sample Receiving date: 21-03-2023
 Testing Started: 21-03-2023
 R.H. (%): 61 W.C.: Cloudy W.D.: North to South Testing Ended: 24-03-2023 ----Test Result----

SI. No.	Tested Parameter	Unit	Method No.	Limits	Results		
1.	Iron (Fe)	mg/l	APHA 3111 B.2017	1.0 - No Relaxation	0.25		
2.	Aluminium (Al	mg/l	IS 3025 Part - 55	0.03 - 0.2	BDL (MDL - 0.01)		

	End heport	
Env. Condition of Lab.	Laboratory is maintaining Temperature 27± 2°C and Relative Humidity 65±5 % in all testing area as per IS 196:1966(C).	
Abbreviation	MDL: Minimum Detection Limit, BDL: Below Detection Limit	_
Limit is Specified	15 10500 :2022	_
Remark	Sample Comply with prescribed specification.	_

Tested By: Anshu Gupta

Sample Drawn By: Rajiv Kumar Singh & Team

Specific Contractual Notes: - 1. The laboratory accepts responsibility for content of this report. 2. This report shall not be reproduced except in full, without written approval of the MD. 3. This report is intended for only guidance and not for legal purpose or for advertisement. 4. Any complaint about this report should be communicated in writing within 7 days of its issue	Quality Checked by wormen Steprized Signatory
<ol> <li>Total liability of institute for Environmental Management will be limited to invoiced amount only.</li> <li>In case of feedback/ complaints, please send an email at cm.iemeco@gmail.com</li> </ol>	(Shreya Sonality)
or in case of reculacy companies, please service an ensared of memory and an ensared of the companies of the please service and an ensared of the companies of the please service and the companies of the comp	Dy. Quality Manager * Randi * Director
Corporate office - A-8, Modi Heights, OppAll India Radio Stat	tion, Ratu Road, Ranchi, Jharkhand - 834001
Laboratory Site - H.No A-13, Saket Vihar, Near Sohr. Ranchi-834002, Jharkhan	

	Accredite	d by	Jharkhar	nd State Pollution C	ontrol Board, JSPCB		LEN
	Certified b			2015 (Quality Mana) 1:2018 (Occupationa	jement System ) Health & Safety Managemen	t System )	
	- 657				Report		100
Discipli	ine: Biological		100	Group: Wa	ter	Sub-Group: Grou	nd Water
	Issue Date: 27-03	3-2023		100 M	the second se	RN-230308001G	and the same state of the same
Sample	ID: 230321MB01	1001		18° 11	Sample Descript	tion: Ground Wate	r (Dug well)
	No./P.O. No.: 45	54802383	34/237	and a start	Challan No./ P.M	lo. Date: 17-09-20	22
ssued	Dalmia Cemer				ent Works) Plot IV/A-7 karo, Jharkhand 8270		
Type of	f Industry: Cemer	nt		100	Customer Repr	esentative: Sanjee	ev Verma
	e Drawn by: IEM				Sampling Date:	19-03-2023	S.
	ol: CPCB Guideline		thod 30	25 Part-01	A CONTRACTOR OF THE OWNER	1	
	ng Location: Bhut leteorological Inf			Temp. (°C): 27	R.H. (%): 61 W.C.: Clo	w.D.	: North to South
	Receiving date:	and the second second	The second second		the second s	Testing Ended: 24-	and a state of the
Jampie	incouring duter				Result		
SI. No.	Tested Param	neter	Unit	Method No.	Limit	2	Results
1.	Total Coliform		mg/l	IS 1622: 1981	Shall not be detectab sampl	e	BDL (MDL-1.8)
2.	E. Coli		mg/l	IS 1622: 1981	Shall not be detectab sampl		BDL (MDL-1.8)
		Labora	atory is		perature 27± 2oC and Re	lative Humidity 65:	±5 % in all testing
env (C				monitoring reing	cideale Li Loc and ne		
	ondition of Lab.	area as	s per IS	196:1966(C).			
Abbrev	iation	area a: MDL: N	s per IS	196:1966(C). n Detection Limit	, BDL: Below Detection I		
Abbrev Limit is Remark Tested	iation Specified	area a: MDL: M IS 1050 Sample	s per IS Minimur 00 :202: e Comp	196:1966(C). n Detection Limit	, BDL: Below Detection I		8
Abbrev Limit is Remark Tested	iation s Specified s By: Khushi	area a: MDL: M IS 1050 Sample	s per IS Minimur 00 :202: e Comp	196:1966(C). m Detection Limit 2	, BDL: Below Detection I		
Abbrev Limit is Remark Tested Sample Sample Sample Decific Cool 1. The lab 2. This rej 3. This rej 4. Any coo	iation s Specified s By: Khushi e Drawn By: Rajiv I e Drawn By: Rajiv I pritactual Notes: - foratory accepts responsibi port shall not be reproduce port is intended for only gu mplaint about this report sh	area a: MDL: h IS 105( Sample Kr. Singh &	s per IS Minim ur 00 :202 e Comp & Team & Team	196:1966(C). m Detection Limit 2 ly with prescribe vith prescribe ort. ritten approval of the MD. urpose or for advertiseme writing within 7 days of its	BDL: Below Detection I ed specification. Quality Che	acked by	
Abbrev Limit is Remark Tested Sample Sample Sample Configuration 1. The lab 2. This rej 3. This rej 4. Any con 5. Total ki 6. In case	iation s Specified s By: Khushi e Drawn By: Rajiv I e Drawn By: Rajiv I prised by accepts responsible port shall not be reproduce port shall not be reproduce	ity for content dexce and more than a more	t of this repair ii, white outputs of the second to f this repair ii, white outputs of the second to regal p nunicated i will agement will agement at qu	196:1966(C). m Detection Limit 2 ly with prescribe ly with prescribe oft. riten approval of the MD. urpose or for advertiseme writing within 7 days of it lbe limited to invoiced arm m.iemeco@gmail.com	ABDL: Below Detection I ed specification. Provide Specification. Quality Che Sissue ount only. (Shreya :	acked by	

IEM		Accredit	ed by	Jhar Nati	khand St onal Acc	tate Pollu reditatio	ution on Be	oard for 7 0 45001:2	Board, JS Testing La	PCB							S.
=	APR .	Certified I	ву	150	9001:201:					1.00.1	_						10-1
ſ.,	and and a	8		1ª		N	le	st Rep	ort			A					
	No.:	ТС	1	1	5		5		3 0	0	0	0	0	0	0	0	6
	ipline: Che		20			Group	: W	/ater	1.11.1		-	ıb-Gro	and the subscription of th	and the second designed in	and the second second	r	
	ort Issue D				1	4.1		100	Test Re	and the second second second	St. 11.1.1	1.100.510.526.541.2					-
-	ple ID: 230	CT1100				144	2	12	Sample	and the state of the second second		Contractory of the designation of the local diversity of the local d	and the second se	the second second		well)	-
	llan No./P.	O. No.: 4	5480238	34/2	37	18.80	2007		Challan	No./F	P.No.	Date:	17-09	-2022	2	-	<u> </u>
ISSU		nia Ceme aro Indus															
Type	e of Indust	ry: Ceme	nt	-	~				Custon	ner Re	pres	entativ	e: Sa	nieev	Verm	a	-
	ple Drawn	and the second se			1000			65	Sampli	and the second second second	Statement of the local division of the local	And in case of the local division of the loc	And a second second	-		-	15
	ocol: CPCB	and the second second second second	Self of the self-the self-the	tho	d 3025 F	Part-01		Sec. 1	-				-			100	
-	pling Locat			-				1000	1010	Sta.	_			200	19	20	1
	d Meteorol		the state of the local data and the state of		A. Temp	D. (°C): 2	27	R.H. (%	: 61	W.C.: 0	loud	ly	V	V.D.:	North	to So	uth
	ple Receiv							rted: 21			Te	sting E	nded:	24-03	3-2023	3	
	8	1		NT.	A SNE	-	Te	est Resu	lt	The second				- 20			
SI.	Tes	ted Para	meter		Unit	Me	etho	d No.			Lin				R	tesult	s
No.	pH value	and the second of		-				Part-11)		eptab 5 - 8.5			laxat		-	6.81	oren i i
1.	Turbidity		2	-	NTU			Part-11) Part-10)		1		NO RE	5	ion		1.2	-
3.	Colour		100					Part-04)		5		122.0	15		2.5	5.0	-
4.	Odour		.25					Part-05)		reeable	9	Agr	eeable	e	Ag	reeal	ole
5.	Total Diss			S)	mg/l	IS 302	25 (	Part-16)		500	14.00	2	000	300		363.0	
6.	Calcium (	and the second design of the s		-	mg/l			Part-40)		75 200				38.48	-		
7.	Total Alka				mg/l			Part-23)		200 600				170.0			
8. 9.	Total Har Chloride		s CaCO3	-	mg/l mg/l			Part-21) Part-32)		200 600 250 1000		-		164.0	-		
10.			orine		mg/l			Part-26)		0.2			1.0		BDL(MDL-2.0)		
11.					mg/l			Part-24)		200		400			51.22		
12.	Magnesiu	um (as Mg	g+2)		mg/l			Part-46)		30			100	100	-	16.52	
14	1	i Acess	1		-		_	ND Repo					1.010				
Env.	Condition	of Lab.			r IS 196			mperatu	re 27± 29	c and l	Kelat	ive Hu	midity	65±5	% in a	all tes	ting
Abb	reviation							nit, BDL:	Below D	etectio	n Lin	nit		1		1	1
_	t is Specifi	ied	IS 105	00 ::	2021				P				1	1	19		
Rem	ark	-	Samp	le Co	mply w	ith pre	scri	bed spe	cificatio	n.	100	1		10	1000		-
	ted By: Ansh Iple Drawn B		umar Sing	h & T	eam												
	Contractual No		ility for conter	t of this	s report.	Actions in the		and the second s	Q	uality C	heck	ked by	( mult	nAet	A Prese	d Sig	nator
2. Thi 3. Thi 4. An 5. Tot	s report shall not s report is intend y complaint abou al liability of Insti case of feedback	t be reproduce led for only gu it this report sh itute for Enviro	d except in fu idance and no nould be commonded be common noted by the common tal man	II, with ot for le nunica ageme	out written a gal purpose ted in writing nt will be lim	e or for adve g within 7 d nited to invo	ertiser lays o biced i	ment. If its issue	0	Show (Shrey	Jest	nal	autule hor				ain)
n the b	asis of Quality C	hecked and T	echnical data					y, the report	Dv	. Quali			100	Rand	*	ector	
issued	by the Director of		The loss of second	i Hei	ahts On	D - All In	dia	Radio Sta	1				chand	824	/	00001	-
		te office - Laborator	out work the second second										In the second second		001		
		Laborator	y one - ri.	40.	and a property of the			Jharkhar		n, narn	in LIC	maning C	Siony,				

		Accredited by		State Pollution Contr			
	the C	Certified by		015 (Quality Manageme 2018 (Occupational Hea		nt System )	E
S.	.0	13 <sup>11</sup>	and the second	Test Re	port	100	Cet.
Disci	ipline: Chemic	al	8	Group: Water		Sub-Group: Ground	Water
	ort Issue Date:			19.		RN-230308001GW2	
-	ple ID: 230321		04/007	Section 1		on: Ground Water	
	llan No./P.O. N red to:	10.: 45480238	334/23/	THERE	Challan No./ P.N	o. Date: 17-09-2022	2
	Dalmia C			arkhand Cement V ih, Dist: - Bokaro,			
	e of Industry: (		1	100	Customer Repre	sentative: Sanjeev	Verma
	ple Drawn by	A CONTRACTOR OF		See 1	Sampling Date: 1	9-03-2023	<u>0</u>
_	tocol: CPCB Gu		and the second se	Part-01	and the second second	<u> </u>	
	pling Location d Meteorologic	and the second s	and the second se	. (°C): 27 R.H. (%	: 61 W.C.: Clou	udy W.D.: I	North to South
	ple Receiving			Testing Started: 21		esting Ended: 24-03	
				Test Resu		100	and the second second
SI.	Tested	Parameter	Unit	Method No.		mit Permissible	Results
1.	Taste			IS 3025 (Part-07)	Acceptable Agreeable	Agreeable	Agreeable
2.	Nitrate (as No		mg/l	IS 3025 (Part-34)	45	No Relaxation	6.60
3.	Fluoride (as f	)	mg/l	IS 3025 (Part-60)		1.5	1.03
bbr imi	Condition of I reviation It is Specified	Area MDL: IS 10	as per IS 196 Minimum De 500 :2021	:1966(C). etection Limit, BDL:	re 27± 2°C and Rela	ative Humidity 65±5 imit	% in all testing
imi imi Rem Test	reviation it is Specified	upta	as per IS 196 Minimum De 500 :2021 Die Comply w	ntaining Temperatu :1966(C).	re 27± 2°C and Rela		% in all testing
Abbr Limit Rem Test Sam	reviation it is Specified ark ted By: Anshu Gu nple Drawn By: Ri	area MDL: IS 10 Samp upta ajiv Kumar Sing	as per IS 196 Minimum De 500 :2021 Die Comply w	ntaining Temperatu :1966(C). etection Limit, BDL:	re 27± 2°C and Rel. Below Detection L cification.	imit	A A A
Abbr Limit Rem: Test Sam Sam	reviation it is Specified ark ted By: Anshu Gu nple Drawn By: R: c Contractual Notes: - e laboratory accepts re	sponsibility for contra	as per IS 196 Minimum De 500 :2021 Die Comply w gh & Team	ntaining Temperatu :1966(C). etection Limit, BDL: ith prescribed spe	re 27± 2°C and Rel. Below Detection L cification.	imit	horized Signator
ecific This This This This This This This This	reviation tis Specified ark ted By: Anshu Gu nple Drawn By: Ri ple Drawn By: Ri s contractual Notes: - e laboratory accepts re is report is intended for y complaint about this al liability of Institute for	area MDL: IS 10 Samp upta ajiv Kumar Sing sponsibility for conte produced except in rony guidance and report should be cor re Environmental Ma	as per IS 196 Minimum De 500 :2021 ble Comply w gh & Team and for legal purpose intunicated in writin magement will be lin	Ataining Temperatu 1966(C). Atection Limit, BDL: Ather prescribed specific ith prescribed specific approval of the MD. a of for advertisement. g within 7 days of its issue g within 7 days of its issue	Pre 27± 2°C and Reli Below Detection L cification. Quality Che Sharac	cker Ronmen Aut	horized Signator
ecific Test Sam	reviation it is Specified ark ted By: Anshu Gi nple Drawn By: R: ple Drawn By: R: contractual Notes e laboratory accepts re is report shall not be re is report shall not be re y complaint about this tal liability of Institute fi case of feedback/ com pass of Quality Checke	area MDL: IS 10 Samj upta ajiv Kumar Sing sponsibility for conte produced except in ronly guidanud e cor or Environmental Ma plaints, please send d and Technical dat	as per IS 196 Minimum De 500 :2021 De Comply w gh & Team and this report. And this report. And this report. And the report of the report of the report municated in writin na agement will be lin an email at gm.iem	Ataining Temperatu 1966(C). Atection Limit, BDL: Ather prescribed specific ith prescribed specific approval of the MD. a of for advertisement. g within 7 days of its issue g within 7 days of its issue	re 27± 2°C and Reli Below Detection L cification. Quality Che Share (Shreya S	imit Ckee Donmep Aut	horized Signator
ecific Trest Sam	reviation it is Specified ark ted By: Anshu Gi nple Drawn By: R: ple Drawn By: R: contractual Notes: - e laboratory accepts re is report shall not be re ase of feedback/ com	area MDL: IS 10 Samj upta ajiv Kumar Sing sponsibility for conte produced except in ronly guidanud e cor or Environmental Ma plaints, please send d and Technical dat	as per IS 196 Minimum De 500 :2021 De Comply w gh & Team and this report. And this report. And this report. And the report of the report of the report municated in writin na agement will be lin an email at gm.iem	Approval of the MD. so for advertisement. g within 7 days of its issue nited to invoiced amount only so confor advertisement. g within 7 days of its issue nited to invoiced amount only	Pre 27± 2°C and Reliber Detection L cification.	imit Ckee Donmep Aut	horized Signator
am am am am am am am am am am	reviation it is Specified ark ted By: Anshu Gi nple Drawn By: R: ple Drawn By: R: contractual Notes e laboratory accepts re is report shall not be re is report shall not be re y complaint about this tal liability of Institute fi case of feedback/ com pass of Quality Checke	area MDL: IS 10 Samj upta ajiv Kumar Sing sponsibility for conte produced except in ronly guidanud e cor or Environmental Ma plaints, please send d and Technical dat	as per IS 196 Minimum De 500 :2021 De Comply w gh & Team and this report. And this report. And this report. And the report of the report of the report municated in writin na agement will be lin an email at gm.iem	Approval of the MD. so for advertisement. g within 7 days of its issue nited to invoiced amount only so confor advertisement. g within 7 days of its issue nited to invoiced amount only	re 27± 2°C and Reli Below Detection L cification. Quality Che Share (Shreya S	imit Ckee Donmep Aut	horized Signato

	Accredit		harkhand State Pollution	n Control Board,	tal Manag JSPCB Laboratory (NABL) vide	132
	Certified		SO 9001:2015 (QMS) & IS		Laboratory (IVADL) vide	TC-11515
1	10		Те	st Report	S. 13	8°
	Io.: T C	1 1 Group:	5 1 5 Residues and Contan			0 0 0 0 8 Ince Metals elements
	t Issue Date: 27-03-	the second s	nesiddes and contain		t No.: RN-230308001	
	le ID: 230321RC010		State of		scription: Ground Wa	
	n No./P.O. No.: 454	48023834/	237	Challan No	./ P.No. Date: 17-09-	2022
ssue	Dalmia Cement		Ltd. (Jharkhand Cen PO-Balidih, Dist: - Bo			
Type	of Industry: Cement			Customer	Representative: Sanj	jeev Verma
Samp	le Drawn by: IEM T	eam	and the second sec	Sampling D	Date: 19-03-2023	and the second second
	col: IS Method & CP		ne	St. Comment		150° 28°
	ling Location: POKH/	and the second s	A Town 100 27	D.U	Mr. C. Clauda	
	Meteorological Info le Receiving date: 2		A. Temp. (°C): 27 Testing Started: 22	R.H. (%): 61	W.C.: Cloudy Testing Ended:	W.D.: North to South
amp	ie Receiving date. 2	1-03-2023	and the second se	st Result	Testing Linden.	24-03-2023
SI. No.	Tested Paramete	r Uni	t Method	No.	Limits	Results
1.	Copper	mg/	APHA 3111	L B.2017	0.5-1.5	BDL (MDL - 0.01)
2.	Chromium	mg/	APHA 3111	L B.2017	0.05 - No Relaxation	BDL (MDL - 0.04)
3.	Lead (Pb)	mg/	the second se		0.01 - No Relaxation	BDL (MDL - 0.04)
4.	Manganese (Mn)	mg/		d Report	0.1 - 0.3	BDL (MDL - 0.08)
Abbre .imit	viation s Specified	area as p MDL: Min IS 10500	er IS 196:1966(C). Imum Detection Limit :2022	, BDL: Below D	etection Limit	ity 65±5 % in all testing
Remai	rk	Sample C	omply with prescribe	ed specificatio	n.	10 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Sam	ple Drawn By: Rajiv Ku	mar Singh a	3 Team			
pecific	Contractual Notes: -	2	Section 2 and a section of the		Quality Checked	nmenAnthorized Signatory
1. The 2. This 3. This	laboratory accepts responsibil report shall not be reproduced report is intended for only guik complaint about this report shu il lability of Institute for Enviror ase of feedback/ complaints, pl	d except in full, v dance and not fo ould be commun mental Manage lease send an e	vithout written approval of the ME or legal purpose or for advertisem nicated in writing within 7 days of ment will be limited to invoiced a mail at qm.iemeco@gmail.com	). its issue mount only.	Shruyoson (Shreya Some Re	S. C. Jain)
6. In ca		chnical data vel	ified by the Authorized signatory,	the report	y. Quality Manager*	Ranchi Director
6. In ca on the ba	by the Director of the Organiza				y. Quality Manage	Director

Certified P Discipline: Chemical Report Issue Date: 27-03-20	by			I, JSPCB	
	1	ISO 9001:2015 (Quality Ma ISO 45001:2018 (Occupatio			e
			st Report		127
	Group	Residues and Contamir		Sub-Group	ce Metals elements
Report issue Date: 27-03-20		nesitues and containin	1	No.: RN-230308001	- Categories
Sample ID: 230321RC01002				cription: Ground Wa	Contraction of the second s
Challan No./P.O. No.: 45480		237	Challan No.,	/ P.No. Date: 17-09-	2022
		td. (Jharkhand Ceme O-Balidih, Dist: - Bok			
Type of Industry: Cement	115	De log	Customer R	Representative: San	jeev Verma
Sample Drawn by: IEM Tea	am	and the second	the second s	ate: 19-03-2023	and the second
Protocol: IS Method & CPCB		ne		and the second	A AND
Sampling Location: POKHARI		and the second	AN AN	1	
Field Meteorological Inform	COLORED IN COL	A. Temp. (°C): 27	R.H. (%): 61	W.C.: Cloudy	W.D.: North to South
Sample Receiving date: 21-0	03-2023	Testing Started: 21-	03-2023 Result	Testing Ended:	24-03-2023
SI. No. Tested Parameter	Unit			Limits	Results
1. Iron (Fe)	mg/l	APHA 3111 E	3.2017	1.0 - No Relaxation	0.22
2. Aluminium (Al	mg/l	IS 3025 Par	t - 55	0.03 - 0.2	BDL (MDL - 0.01)
		and the second se	Report		
		y is maintaining Tempe er IS 196:1966(C).	rature 27± 2°C	and Relative Humid	ity 65±5 % in all testing
the second se	the state of the state of the later of the later	imum Detection Limit, I	BDL: Below De	tection Limit	1 18° 19
imit is Specified IS	\$ 10500 :	Constant per service and a			and the second sec
emark S: Tested By: Anshu Gupta Sample Drawn By: Rajiv Kuma		omply with prescribed Team	specification	No. No.	
Tested By: Anshu Gupta Sample Drawn By: Rajiv Kuma		E IT			Authorized Signator
Tested By: Anshu Gupta Sample Drawn By: Rajiv Kuma	ar Singh &	this report.		uality Checked by	Authorized Signator
Tested By: Anshu Gupta Sample Drawn By: Rajiv Kuma Sepecific Contractual Notes: - 1. The laboratory accepts responsibility fo 2. This report is intended for only guidant 4. Any complaint about this report should 5. Total liability of Institute for Environme	ar Singh &	this report. "ithout written approval of the MD. r legal purpose or for advertisemen icated in writting within 7 days of its ment will be imitted to invoiced and	t. issue	uality Checked by	35
Tested By: Anshu Gupta Sample Drawn By: Rajiv Kuma Specific Contractual Notes: - 1. The laboratory accepts responsibility fo 2. This report shall not be reproduced ex 3. This report is intended for only guidance 4. Any complaint about this report should	ar Singh &	this report. Thout written approval of the MD. r legal purpose or for advertisemen icated in writing within 7 days of its ment will be limited to invoiced amo ment will be limited to invoiced amo mail at um. Temeco@gmail.com	t issue junt only.		Authorized Signator

	Accredited	2012/0	To be a second second	d State Pollution C	12421212121210101010		SPCB			
- AND	Certified by			2015 (Quality Mana 1:2018 (Occupationa			Managemer	t System )		
5	1852		140	Test	Repor	t			200	(en)
Discipl	ine: Biological		100	Group: Wa		-	0	Sub-Grou	p: Grou	nd Water
	Issue Date: 27-03	-2023				est R	eport No	: RN-2303		
Sample	e ID: 230321MB01	002		18	S	ample	e Descrip	tion: Grou	nd Wate	r (Dug well)
	n No./P.O. No.: 45	4802383	34/237	Call	0	halla	n No./P.	No. Date:	17-09-20	22
Issued	Dalmia Cemen			(Jharkhand Cen alidih, Dist: - Be						
Type o	f Industry: Cemen	t			0	Custo	mer Rep	resentativ	e: Sanjee	ev Verma
Sampl	e Drawn by: IEM	Team	100	and the second	S	ampli	ing Date:	19-03-202	:3	S
and the second se	ol: CPCB Guideline	and the second se	which the second second second second	25 Part-01	- 11	-		C.	and the second second	
	ing Location: POKH								1.000	Marth & Cauth
the state of the second second	Aeteorological Info	and the state of the		Temp. (°C): 27	R.H. (%)		W.C.: C			.: North to South
Sample	e Receiving date: 2	21-03-20	023	Testing Start	t Result-		3	Testing E	ided: 24-	03-2025
SI. No.	Tested Param	otor	Unit	Method No.	Result		Lim	22.00		Results
1.	Total Coliform	eter	mg/l	IS 1622: 1981	Shall	not be		ole in any	100 ml	BDL (MDL-1.8
2.	E. Coli	1	mg/l	IS 1622: 1981	Shall	not be		ole in any	100 ml	BDL (MDL-1.8
	29		Carlos a	ENI	Report			Caller.		200 million
Limit is Remark	s Specified k		00 :202 le Comp	2 ly with prescrib	ad specif	finatio	on.			-
	By: Khushi le <mark>Drawn By:</mark> Rajiv ł	Kr. Singh	& Team	Sec.	ed specifi	ircatio				18
		<r. singh<="" td=""><td>&amp; Team</td><td></td><td></td><td></td><td></td><td></td><td>33</td><td>A A A</td></r.>	& Team						33	A A A
Sampl pecific Co 1. The lat 2. This re 3. This re	Ie Drawn By: Rajiv M mtractual Notes: boratory accepts responsibil sport is intended for only gui	lity for content d except in fu	nt of this reput	ort. ritten approval of the MD urpose or for advertisem	ant		Quality Ch	ecked by		uthorized Signato
Sampl pecific Co 1. The lai 2. This re 3. This re 4. Any co 5. Total li 6. In case	Ie Drawn By: Rajiv P mtractual Notes . boratory accepts responsibil port shall not be reproduces	lity for content d except in fu dance and no ould be commental Man lease send a	nt of this reput II, without w of for legal p municated in lagement will in email at g	ort. ritten approval of the MD urpose or for advertisem writing within 7 days of i I be limited to invoiced ar miemeco@gmail.com	ent. Is issue nount only.	9	(Shreya	Sonal		(Des C. Jain)
pecific Co 1. The lal 2. This re 3. This re 4. Any co 5. Total li 6. In case	Ite Drawn By: Rajiv M mtractual Notes: - boratory accepts responsibil sport is intended for only gui implaint about this report shi iability of Institute for Enviror e of feedback/ complaints, pi	ity for content d except in fu dance and nc ould be comm mental Man lease send a chnical data	nt of this reput II, without w of for legal p municated in lagement will in email at g	ort. ritten approval of the MD urpose or for advertisem writing within 7 days of i I be limited to invoiced ar miemeco@gmail.com	ent. Is issue nount only.	9	shorage	Sonal		The second

# <u>Annexure-X</u>

# Noise Level report

	Accredi		rkhand State Pollution Cont ional Accreditation Board fo			ory (NABI ) vide T	C-11515	
	Certified		9001:2015 (QMS) & ISO 4500		aborati	in (trade) vide fi		TC - 11515
			Test Re	port				
ULR N	о.: Т	C 1 1	5 1 5 2	3 0	0	0 0 0		7
	line: Chemical		Atmospheric Pollution			nbient Noise Lev		
Repor	t Issue Date: 26-	03-2023		Test Rep	ort N	o.: RN-23030800	1N2	
Sampl	e ID: 230321AP1	3002				ption: Ambient I		
	n No./P.O. No.: 4	548023834/2	37	Challan I	No./P	.No. Date: 17-09	-2022	
Issued	Bokaro Cem		uring Works, Unit of Da o Industrial Area Balidi				7014 Jharkhan	d India
Type o	of Industry: Ceme					presentative: Sa		
	le Drawn by: IEN			Sampling	g Date	: 17-03-2023 to	18-03-2023	
Protoc	ol: CPCB Guidelin	ne & IS Metho	d 9989:1981					
Sampl	ing Location: Nea	ar Project Offi	ce					
	Meteorological In	and the second se		. (%): 55	W.C.	: Cloudy	W.D.: NW - S	E
Sampl	e Receiving date:	21-03-2023	Testing Started: 21			Testing Ended:	24-03-2023	
SI. No	Param	eter	Method	Un	lit	Day Time	Night Time	Limits
1.	Equivalent Soun	d Level (Leq)	IS 9989:1981	dB(	(A)	67.3	53.4	D-75 N-70
2. Night 1 3. Mixed 4. dB(A) 5.A "deci response	me shall mean from 6.00 time shall mean from 10 categories of areas may Leq denotes the time w Ibel" is a unit in which n e characteristics of the h	0.00 p.m. to 6.00 a. y be declared as on eighted average of oise is measured. " uman ear.	m. e of the four above mentioned ca the level of sound in decibels on A", in dB(A) Leq, denotes the freq	tegories by th scale A which i	is relata	ble to human hearing.	e and corresponds to	frequenc
1. Day tin 2. Night 1 3. Mixed 4. dB(A) 5.A "deci response 6. Leq: It	me shall mean from 6.00 time shall mean from 10 categories of areas may Leq denotes the time w ibel" is a unit in which n	0.00 p.m. to 6.00 a. y be declared as on eighted average of oise is measured. " uman ear. se noise level, over	n. e of the four above mentioned ca the level of sound in decibels on A", in dB(A) Leq, denotes the freq	tegories by th scale A which i uency weighti	is relata ng in th	ble to human hearing. e measurement of nois		
1. Day tir 2. Night 1 3. Mixed 4. dB(A) 5.A "deci response 6. Leq: It Env. C	me shall mean from 6.00 time shall mean from 10 categories of areas may Leq denotes the time w ibel" is a unit in which n characteristics of the h is an energy mean of th condition of Lab.	0.00 p.m. to 6.00 a. y be declared as on eighted average of oise is measured. " uman ear. te noise level, over Laboratory i per IS 196:14	n. m. e of the four above mentioned ca the level of sound in decibels on A", in dB(A) Leq, denotes the frec a specified period. s maintaining Temperature 666(C).	tegories by th scale A which i uency weighti	is relata ng in th	ble to human hearing. e measurement of nois		
1. Day tir 2. Night 1 3. Mixed 4. dB(A) 5.A "deci response 6. Leq: It Env. C Abbrev Limit i	me shall mean from 6.00 time shall mean from 10 categories of areas may leg denotes the time wi ibel" is a unit in which n characteristics of the h is an energy mean of th condition of Lab. viation s Specified	0.00 p.m. to 6.00 a. y be declared as on eighted average of oise is measured. " uman ear. te noise level, over Laboratory i per IS 196:1' MDL: Minimu As per Noise	n. m. e of the four above mentioned ca the level of sound in decibels on A", in dB(A) Leq, denotes the free a specified period. s maintaining Temperatur 966(C). im Detection Limit Pollution (Regulation and	tegories by th scale A which i uency weighti 27± 2°C an Control) R	ng in the	ble to human hearing. e measurement of nois ative Humidity 65:		
1. Day tir 2. Night 3. Mixed 4. dB(A) 5.A "deci response 6. Leq: It Env. C Abbrey Limit i Remar	me shall mean from 6.00 time shall mean from 10 categories of areas may leg denotes the time wi ibel" is a unit in which n characteristics of the h is an energy mean of th condition of Lab. viation s Specified	0.00 pm. to 6.00 a. y be declared as on ighted average of oise is measured. " uman ear. te noise level, over Laboratory i per 15 196:11 MDL: Minimu As per Noise Sample Com	n. m. e of the four above mentioned ca the level of sound in decibels on A", in dB(A) Leq, denotes the free a specified period. s maintaining Temperature 966(C). im Detection Limit	tegories by th scale A which i uency weighti 27± 2°C an Control) R	ng in the	ble to human hearing. e measurement of nois ative Humidity 65:		
1. Day tir 2. Night 1 3. Mixed 4. dB(A) 5.A "deci response 6. Leq: It Env. C Abbrev Limit 1 Remar	me shall mean from 6.00 time shall mean from 10 categories of areas may leq denotes the time w Ibel" is a unit in which n characteristics of the h is an energy mean of th condition of Lab. viation s Specified k y: Akanksha Soural Drawn By: Amit Sinl	0.00 p.m. to 6.00 a. y be declared as one eighted average of oise is measured. " uman ear. te noise level, over Laboratory i per 1S 196:1' MDL: Minimu As per Noise Sample Com	n. m. e of the four above mentioned ca the level of sound in decibels on A", in dB(A) Leq, denotes the free a specified period. s maintaining Temperatur 966(C). im Detection Limit Pollution (Regulation and	tegories by th scale A which i uency weighti 27± 2°C au Control) R cification.	nd Rel	ble to human hearing. e measurement of nois ative Humidity 65 2000	±5 % in all testir	area a
1. Day tir 2. Night 1 3. Mixed 4. dB(A) 5.A "deci response 6. Leq: It Env. C Abbrey Limit i Remar ested By ample D ample D	me shall mean from 6.00 time shall mean from 10 categories of areas may leq denotes the time w ibel" is a unit in which n characteristics of the h is an energy mean of th condition of Lab. viation s Specified k y: Akanksha Soural Drawn By: Amit Sinl Practual Notes - atory accepts responsibilit rt shall not be reproduced rt is intended for only guid Jaint about this report sho	0.00 pm. to 6.00 a, y be declared as on eighted average of oise is measured. " uman ear. e noise level, over Laboratory i per 15 196:11 MDL: Minimu As per Noise Sample Com oh ha& Team	n. m. e of the four above mentioned ca the level of sound in decibels on A", in dB(A) Leq, denotes the frec a specified period. s maintaining Temperature 266(C). Im Detection Limit Pollution (Regulation and pply with prescribed spec aport. written approval of the MD. I purpose or for advertisement. In written do invoiced amount only will be limited to invoiced amount only	Control) R Control R Control R Control R Control S Control R Control S Control S Contr	ality C	ble to human hearing. e measurement of nois ative Humidity 65:	45 % in all testin	anatory
1. Day tir 2. Night 1 3. Mixed 4. dB(A) 5.A "deci response 6. Leq: It Env. C Abbrev Limit i Remar ested By ample D ample D bacific Conti The labor This repo Any cop This repo This repo This repo This repo This repo	me shall mean from 6.00 time shall mean from 10 categories of areas ma leq denotes the time w ibel" is a unit in which n characteristics of the h is an energy mean of th condition of Lab. viation s Specified k y: Akanksha Soural Drawn By: Amit Sinl Paravn By: Amit Sinl Paravn By: Amit Sinl prawn By: Amit	0.00 pm. to 6.00 a. y be declared as one eighted average of oise is measured. " uman ear. te noise level, over Laboratory i per 15 196:11' MDL: Minimu As per Noise Sample Com oh ha& Team y for content of this m except in full, without ance and not for lega ub de communicated mental Management ase end an email at hnical data verified b	n. m. e of the four above mentioned ca the level of sound in decibels on A", in dB(A) Leq, denotes the frec a specified period. s maintaining Temperature 266(C). Im Detection Limit Pollution (Regulation and pply with prescribed spec aport. written approval of the MD. I purpose or for advertisement. In written do invoiced amount only will be limited to invoiced amount only	Control) R Control R Control R Control R Control C Control C Control C C C C C C C C C C C C C C C C C C C	allity C	ble to human hearing. e measurement of nois ative Humidity 65: 2000	45 % in all testin	gnatory
1. Day tir 2. Night 1 3. Mixed 4. dB(A) 5.A "deci response 6. Leq: It Env. C Abbrev Limit i Remar ested By ample D ample D bacific Conti The labor This repo Any cop This repo This repo This repo This repo This repo	me shall mean from 6.00 time shall mean from 10 categories of areas ma Leq denotes the time w ibel" is a unit in which n characteristics of the h is an energy mean of th ondition of Lab. viation s Specified k y: Akanksha Soural brawn By: Amit Sint ractual Notes: - atory accepts responsibilit r shall not be reproduced it is inended for only guid Jaint about this report shou lity of institute for Environr feedack' complaints, plef e Director of the Organizati	0.00 pm. to 6.00 a, y be declared as one eighted average of oise is measured. " uman ear. te noise level, over Laboratory i per 15 196:1' MDL: Minimu As per Noise Sample Com bh ha& Team y for content of this n except in full, without ance and not for lega ub be communicated mental Management to ase send an email at hnical data verified b on.	e of the four above mentioned ca the level of sound in decibels on A", in dB(A) Leq, denotes the free a specified period. s maintaining Temperatur 266(C). Im Detection Limit Pollution (Regulation and pply with prescribed spec aport. written approval of the MD. I purpose or for advertisement. In writing within 7 days of its issue will be limited to invoiced amount only (gm.iemeco@gmail.com	Qua	ality C	hecked by ative Humidity 65 2000	Authorized Sig	gnatory



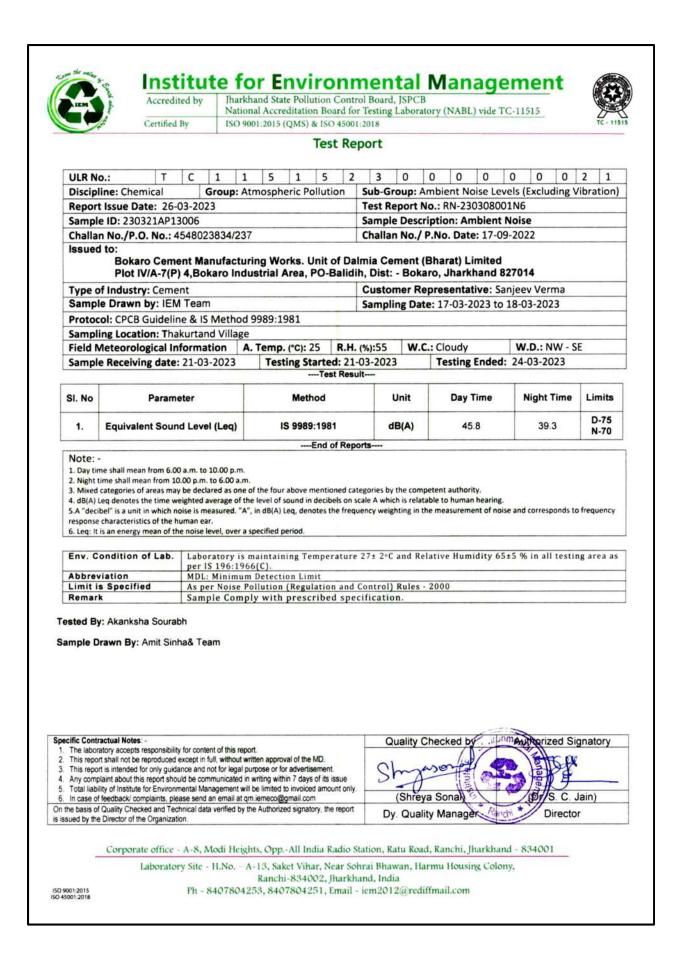


 Accredited by
 Jharkhand State Pollution Control Board, JSPCB National Accreditation Board for Testing Laboratory (NABL) vide TC-11515

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

#### Test Report

	line: Chemical Gro	up: Atmosphe									
Repor	Report Issue Date: 26-03-2023						mbient Noise Lev		ibratio		
							o.: RN-23030800				
	e ID: 230321AP13005				Sample Description: Ambient Noise Challan No./ P.No. Date: 17-09-2022						
	n No./P.O. No.: 45480238	34/237									
Issued	Bokaro Cement Manu Plot No IV/A-7(P)4, Bo Bokaro Steel City, Bo	karo Industri	al Area E	Balidih	i i	nent (	Bharat) Limited				
Type of	of Industry: Cement				Custom	er Re	presentative: Sa	njeev Verma			
Samp	le Drawn by: IEM Team			1	Samplin	g Dat	e: 17-03-2023 to	18-03-2023			
Protoc	col: CPCB Guideline & IS M	ethod 9989:19	81								
Sampl	ing Location: Near Gorawa	li Temple									
Field N	Meteorological Informatio	A. Temp.	(°C): 25	R.H.	(%):55	W.C	.: Cloudy	W.D.: NW - S	E		
Sampl	e Receiving date: 21-03-20	23 Testi	ng Starte				Testing Ended:	24-03-2023			
			Te	st Resu	lt						
SI. No	Parameter		Method		Ur	nit	Day Time	Night Time	Limit		
1.	Equivalent Sound Level (L	eq) IS	9989:198	81	dB	(A)	44.5	40.1	D-7		
			End	of Repo	orts						
EIIV. G		terrine and	na Toma		37+ 3-0	nd n	ating Humildian of	+ E Of in all territ			
Abbrev	viation MDL: M	96:1966(C). nimum Detectio	on Limit				ative Humidity 65	±5 % in all testin	g area		
Abbrev Limit i Remar	viation MDL: M s Specified As per N	96:1966(C).	n Limit Regulatio	n and	Control) R	ules -	240.	±5 % in all testin	g area		
Abbrev Limit i Remar sted By mple D	viation MDL: M s Specified As per N k Sample y: Akanksha Sourabh Drawn By: Amit Sinha& Team	96:1966(C). nimum Detectic oise Pollution (	n Limit Regulatio	n and	Control) R	ules -	2000	Authorized Si			
Abbrev Limit i Remar sted By mple D mple D cific Contr The labor This repo Any comp Total liab	yiation MDL: M s Specified As per N k Sample y: Akanksha Sourabh	16:1966(C). nimum Detectic oise Pollution ( Comply with ; Comply with ; this report. ithis report. ithout written approva r legal purpose of for icated in writing within ment will be limited to	en Limit Regulatio prescribe al of the MD. advertisemen n 7 days of its invoiced amo	n and ( d spec	Qua Sh	ality C	240.	Authorized Sig	inatory		
Abbrev Limit i Remar sted By mple D cific Contr The labor This repo Any comp Total liabi In case of he basis of	per IS 1           viation         MDL: M.           s Specified         As per N.           k         Sample           y: Akanksha Sourabh         Drawn By: Amit Sinha& Team           brawn By: Amit Sinha& Team         atoy accepts responsibility for content of thal not be reproduced except in full, it is intended for only guidance and not folaint about this report should be community of institute for Environmental Manage	b6:1966(C). nimum Detectic oise Pollution ( Comply with ) Comply with ) this report. without written approva- ithout written approva- ricated in writing within ment will be limited to meal at gm.iemeco@g	al of the MD. advertisemen n 7 days of its involced amo	n and o d spec	Qua Sh	ality C	thecked by	Authorized Si	inatory ain)		
Abbrev Limit i Remar sted By mple D cific Contr The labor This repo Any comp Total liabi In case of he basis of	per IS 1           viation         MDL: M.           s Specified         As per N.           k         Sample           y: Akanksha Sourabh         Sample           y: Akanksha Sourabh         Sample           prawn By: Amit Sinha& Team         Saroy accepts responsibility for content of t shail not be reproduced except in full, it is intended for only guidance and not t plaint about this report should be commulity of institute for Environmental Manage feedback/ complaints, please send an effectual data we found the christical data	b6:1966(C). nimum Detectic oise Pollution ( Comply with ) this report. ithout written approva this report. ithout written approva regal purpose or for licated in writing within ment will be limited to meal at gm.imeco@gg ified by the Authorized	al of the MD. advertisemen n 7 days of its invoiced amo mail.com	n and o d spec t. issue unit only. e report	Qua Sh (S Dy.	ality C	hecked by a Sonally by Manager	Authorized Sig	inatory ain)		



	Acci	edited	l by						ion Cor Board					JARI)	vide T	C-11	515		4	
	Certi	ied By			Addition in the local is	and the second s			: ISO 450	the party of the local data in the		abora	tory (i	ADL)	viue I	C-11	515		4	2.1
				_					Test R					_						
									icse it	cpoi	•									
ULR N	0.:	r	с	1	1	5		1	5	2	3	0	0	0	0	0	0	0	2	2
Discip	line: Chemica			Grou	-				llution			-	-	ent No	ise Le	-	(Exclud	_		
Repor	t Issue Date:	26-0	3-20	23						Te	st Re	port	No.: F	N-230	3080	01N7	7			
Sampl	e ID: 230321/	P130	07							Sa	mple	e Desc	riptic	n: An	bient	Noi	se			
	n No./P.O. No	.: 45	4802	23834	4/237	7				Ch	allar	No./	P.No	. Date	: 17-0	9-20	22			
Issued	Bokaro C																			
T	Plot IV/A-			okard		ustri	al A	rea,	РО-Ва											
	of Industry: Co le Drawn by:			n						-						-	ev Verr 03-202	-		_
•	col: CPCB Guid		1.12		thod	9989	:198	1	-	38	mpii	15 00		03-2	25 10	10-	03-202	5		-
	ling Location:							-												_
	Meteorologica				A	. Ten	np. (*	'C): 2	8 R.	H. (%)	:69	W.	C.: Clo	oudy		N	V.D.: N	W - S	E	
Sampl	e Receiving d	ate: 2	21-03	3-202	23	Te	estin		arted: 2			3	Te	sting	Endec	1: 24	-03-20	23		
				_		_		-	Test Re	esult	-								-	_
SI. No	Pa	amet	er					Meth	od		L	Jnit		Day T	ïme		Night T	ime	Lir	nit
1.	Equivalent S	ound	Leve	el (Le	q)		IS	9989	:1981		d	B(A)		49	3		41.6	3		-75
2. Night 3. Mixed 4. dB(A)	me shall mean from time shall mean fro categories of area Leg denotes the tir	m 10.0 may b ne weig	0 p.m e deci ghted	to 6.0 lared a averag	00 a.m. s one of th	of the fine level	of sou	ove m	decibels o	categor	ries by A whic	h is rela	table to	human	hearing		d correct	ands tr	frag	1000
1. Day tin 2. Night 3. Mixed 4. dB(A) 5.A "deci response 6. Leq: It	me shall mean from time shall mean fro I categories of area	m 10.0 may b ne weig ch nois he hur of the	0 p.m e deci ghted se is m nan ea noise	a to 6.0 lared a averag neasure ar. level, c	00 a.m. s one of th ed. "A"	of the f le level ', in dB( specifie	of sou A) Leo ed peri	oove m ind in 1, deno iod.	nentioned decibels c	categor on scale requency	ries by A whic y weigi	h is rela hting in	table to the me	human asureme	hearing nt of no	ise and				
1. Day tin 2. Night 3. Mixed 4. dB(A) 5.A "deci response 6. Leq: It Env. C	me shall mean from time shall mean from ( categories of area Leg denotes the tin ibel" is a unit in wh e characteristics of is an energy mean condition of Li	m 10.0 may b ne weig ch nois he hur of the	0 p.m e deci se is m nan ei noise Labo per l	averag heasure ar. level, c prator IS 196	oo a.m. s one of th ed. "A" over a s ry is n 5:196	of the file level ', in dB( specifie maint; 6(C).	of sou A) Leo ed peri	oove m ind in i, denc iod. g Ter	nentioned decibels c otes the fr mperatu	categor on scale requency	ries by A whic y weigi	h is rela hting in	table to the me	human asureme	hearing nt of no	ise and				
1. Day tin 2. Night 3. Mixed 4. dB(A) 5.A "deci response 6. Leq: It Env. C Abbrev	me shall mean from time shall mean from categories of area Leq denotes the tir ibel" is a unit in wh e characteristics of is an energy mean	m 10.0 may b he weig ch nois he hur of the	O p.m e deci shted se is m nan ea noise Labo per l MDL As p	averag heasure ar. level, o rator 1S 196 : Min er No	over a solution of the solutio	of the fine level in e level in dB( specifie maint: 6(C). 1 Dete olluti	of sou A) Lec d per ainin ction on (F	oove m ind in i, dend iod. g Ter i Lim Regul	nentioned decibels c otes the fr mperatu it ation ar	categor on scale requency are 27 f	ries by A whic y weig t 2°C trol)	h is rela hting in and R Rules	table to the mea	human asureme e Humi	hearing nt of no	ise and				
1. Day tii 2. Night 3. Mixed 4. dB(A) 5.A "deci response 6. Leq: It Env. C Abbrey Limit i Remar	me shall mean fron time shall mean fron I categories of area Leq denotes the tim ibel" is a unit in wh e characteristics of is an energy mean condition of Li viation is Specified	m 10.0 may b ne weig ch nois he hur of the	0 p.m e deci se is m nan ea noise Labo per l MDL As p Sam	averag heasure ar. level, o rator 1S 196 : Min er No	over a solution of the solutio	of the fine level in e level in dB( specifie maint: 6(C). 1 Dete olluti	of sou A) Lec d per ainin ction on (F	oove m ind in i, dend iod. g Ter i Lim Regul	nentioned decibels c otes the fr mperatu	categor on scale requency are 27 f	ries by A whic y weig t 2°C trol)	h is rela hting in and R Rules	table to the mea	human asureme e Humi	hearing nt of no	ise and				
1. Day tii 2. Night 3. Mixed 4. dB(A) 5.A "deci response 6. Leq: It Env. C Abbrey Limit i Reman	me shall mean fron time shall mean fron I categories of area Leq denotes the tim ibel" is a unit in wh e characteristics of is an energy mean condition of Li viation is Specified k	m 10.0 may be weig ch nois he hur of the b.	0 p.m e deci se is m nan ea noise Labo per l MDL As p Sam	a. to 6.0 lared a averag neasure ar. level, o orator IS 196 : Min er No ple C	over a solution of the solutio	of the fine level in e level in dB( specifie maint: 6(C). 1 Dete olluti	of sou A) Lec d per ainin ction on (F	oove m ind in i, dend iod. g Ter i Lim Regul	nentioned decibels c otes the fr mperatu it ation ar	categor on scale requency are 27 f	ries by A whic y weig t 2°C trol)	h is rela hting in and R Rules	table to the mea	human asureme e Humi	hearing nt of no	ise and				
1. Day tii 2. Night 3. Mixed 4. dB(A) 5.A "deci response 6. Leq: It Env. C Abbrev Limit i Remar ested By ample D	me shall mean from time shall mean from l categories of area Leq denotes the tii ibel" is a unit in wh e characteristics of is an energy mean condition of Li viation is Specified k y: Akanksha Sc Drawn By: Amit	m 10.0 may b e weight of the hours of the b. Sinha	0 p.m e deci shted m noise Labo per 1 MDL As p Sam	I. to 6.0 lared a averag easure ar. <u>level, c</u> orator <u>S 19(c</u> <u>S 19(c</u> <u>S 19(c</u> <u>S 19(c</u> <u>S 19(c</u> <u>S 19(c</u> ) <u>S 19(c)</u> <u>S 19(c</u> ) <u>S 19(c)</u> <u>S 19(c</u>	00 a.m. s one e of the ed. "A" over a : 5:196 imum ise P comp	of the five level i', in dB( specifie maint: 6(C). 1 Dete olluti ly wi	of sou A) Lec d peri- ainin ction (E th p	oove m ind in i, dend iod. g Ter Lim Regul	mperatu it itbed s	categor on scale requency are 27 f	tries by A whick t 2°C trol) catio	h is rela hting in and R Rules	table to	+ human asureme + Humi	hearing nt of no	5±5 9		testii	ng ar	ea
1. Day tii 2. Night 3. Mixed 4. dB(A) 5.A "deci response 6. Leq: It Env. C Abbrey Limit i Remar ested By ample D stific Control The labor This repo Any comp Total liab	me shall mean fron time shall mean fron ( ategories of area Leq denotes the tim ibel" is a unit in wh a characteristics of is an energy mean condition of Li viation is Specified k y: Akanksha Sc Drawn By: Amit	m 10.0 may be been weld the hur of the hur o	0 p.m e deci shted : is is man ex- noise Laboo per 1 MDL As p Sam MDL As p Sam	I. to 6.0 lared a averag easure ar. level, c orrator <u>s 19( : Min</u> <u>er No</u> <u>ple C</u> eam	0 a.m. s one e of th ed. "A" y is i <u>5:196</u> imun ise P comp	of the five level ', in dB( specifie maint: <u>of(C)</u> . <u>olluti</u> <u>ly wi</u> ort. ritten ap urpose c writing be limit	of sou A) Lec d peri- ainin ctior on (F th p f th p f r f r a within e to r or a e to r or a e to r	oove m ind in i i, denci od. g Ter <u>i Lim</u> Regul rescr of the M dvertise 7 days	MD. MD. MD. MD. MD. MD. MD. MD. MD. MD.	icategor n scale. requency d Con pecific	tries by A whick t 2°C trol) catio	h is rela hting in and R <u>Rules</u> n.	check	+ human asureme + Humi	hearing nt of no	5±5 9	% in all	testin	gnate	ea
1. Day tii 2. Night 3. Mixed 4. dB(A) 5.A "deciresponse 6. Leq: It Env. C Abbrey Limit i Remar ested By ample D be dific Contu The labor This repo Any comp Total liabi In case of the basis of the basis of	me shall mean fron time shall mean fron (ategories of area Leq denotes the tii ibel" is a unit in wh e characteristics of is an energy mean condition of Li viation is Specified ik y: Akanksha Sc Drawn By: Amit ractual Notes: - ratory accepts respon rt shall not be reprod rt is intended for only plaint about this repoo lifty of Institute for En	m 10.0 may be he weig ch nois he hur of the b. urabh Sinha Sinha Sinha	0 p.m. e decid shted is man ea noise Laboo <u>Per I have</u> MDL As p. Sam & Te es and be contai M& be contai M& be contai M& be contai M& be contai M&	I. to 6.0 lared a average easure ar. level, c orator s 19( : Min er No ple C c eam	0 a.m. s one e of th ed. "A" ry is i 5:196 imum ise P c om p	of the five level ', in dB( specifie maint: 6(C). 1 Dete olluti: ly wi ort. nitten ap urpose c writing be limit n.emeco	of sou A) Lec d peri- ainin ainin ctior on (E th p) proval or for a within o@gm	oove m ind in i, denci iod. g Ter <u>i Lim</u> Regul rescr	MD. demotioned decibels of the state of the fr mperatu- it ation an ribed s	i categor no scale requency nd Con pecific ny.	ries by A whic y weight trol) catio	and R Rules n.	check	eed by	hearing nt of no	S±5 9	uthorize	testin	gnate	ea
1. Day tii 2. Night 3. Mixed 4. dB(A) 5.A "deciresponse 6. Leq: It Env. C Abbrey Limit i Remar ested By ample D be dific Contu The labor This repo Any comp Total liabi In case of the basis of the basis of	me shall mean fron time shall mean fron time shall mean fron categories of area Leq denotes the tim biel" is a unit in wh a characteristics of is an energy mean condition of Li viation is Specified k y: Akanksha Sc Drawn By: Amit ractual Notes: - ratory accepts respor nt shall not be reprod rt is intended for only plaint about this repo ility of Institute for En feedback/ complain f Quality Checked an	m 10.0 may be he weig the hur of the weight he hur of the weight he hur of the weight he hur of the weight he hur so he hur of the weight he hur of the her of the her her her her her her her her her h	0 p.m. e deci ghted ke is m nan ea noise Laboo per 1 MDL As p. Sam & Te	I. to 6.0 lared a averag easure ar. level, c orator is 190 : Min er No ple C orator is 190 : Min er No ple C orator is 190 : Min er No ple C	0 a.m. s one e of th ed. "A" ry is i 5:196 imum ise P c om p	of the five level ', in dB( specifie maint: 6(C). 1 Dete olluti: 1 Dete olluti: 1 y wi belien approved writing: belien b	of sou A) Lec d peri- ainin ction (E th p proval r for a within o@gm orized	oove m ind in i, denci iod. g Ter 1 Lim Regul rescr	MD. demotioned mperatu it ation an ribed s smouto amouto amouto	i categor no scale requency nd Con pecific nly.	vies by A whic y weight trol) catio	and R Rules n. (Shre	Check	eed by	dity 6	At Nanagon	uthorize	ed Si	gnate	ea

# Annexure-XI

# Bokaro Cement Manufacturing works Unit of Dalmia Cement (Bharat) Limited Tree plantation pics



550 nos tree plantation done at plant boundary location



### PROPOSED GREEN BELT DEVELOPMENT PLAN

Greenbelt/plantation will be done over 33% of the total project area i.e., about 5.2 acres (2.105 ha). The green belt will inter alia cover the entire periphery of the plant. Native fruits bearing species with large canopy will be selected for plantation.

Table-12: Green Belt Development Plan Sl. No.	Years	Area (Acres)	No. of Trees
01.	1st Year	1.2	1200
02.	2nd Year	1.0	1000
03.	3rd Year	1.0	1000
04.	4th Year	1.0	1000
05.	5th Year	1.0	1000
TOTAL		5.2	5200

#### Green Belt development Plan for five years

#### List of selected species for tree plantation

Tree species	Common Name			
Shorea robusta	Sal			
Pongamia pinnata	Karanj			
Madhuca longifolia	Mahua			
Butea monosperma	Palash			
Azadirachta indica	Neem			
Acacia catechu	Katha			
Boswellig serrata	Lobaw			
Cassea fistula	Amaitas			
	and the state of t			

Tree species	Common Name
Dalbergia latifolia	Eastern Rosewood
Erythrina indica	Coral Tree
Ficus bengalensis	Banyan
Ficus religiosa	Peepal
Dendrocalamus strictus	Bamboo
Moringa oleifera	Drumstick
Terminalia arjuha	Arjun
Tectona grandis	Teak
Mangifera indica	Mango
Albizzia lebbeck	Siris
Artocorpus heterophyllium	Packfruit
Cocos nucifera	Coconut
Polyalthia longifolia	Ashok



# BOKARO CEMENT MANUFACTURING WORKS DALMIA CEMENT (BHARAT) LIMITED

### CORPORATE RESPONSIBILITY ENVORONMENT PROTECTION (CREP) ACTIVITIES DONE SURROUNDING VILLAGE AREA FOR THE YEAR 2022-23

S. N	CREP Activities	Village/Town	Total Amount Rs.
1	Well & Pond renovation	Bhutkuru	554599
2	Stone pitching drain at Badka pond	Gorabali	402380
3	Ghat Construction	Gorabali	533367
4	Tree Planation	Gorabali	6000
5	Water Storage, Sanitation work and MS Grilling work at Manav Sewa Ashram	Bokaro	53287
6	Common hall construction at Govind Vidyalaya including toilets	Balidih	1357000
7	Fire station renovation	Bokaro	212399
8	Vocational training for local youth	Bokaro	2043747
	Total		5162779

# **DETAILS OF CREP ACTIVITIES DONE FOR THE YEAR 2022-23**

A. Well Renovation: -



After



Beneficiary Name: Lakhan Mohli Village Name: Bhutkuru

Before

After



Beneficiary Name: Milan Mohli

Village Name: Bhutkuru

Before

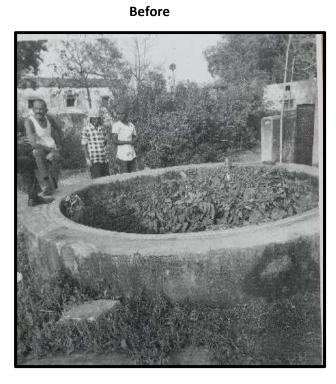






Beneficiary Name: Ramchandra Singh

Village: Bhutkuru After





Before After Beneficiary Name: Roop Lal Singh Village Name : Bhutkuru

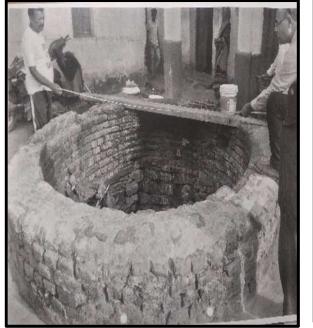


• Beneficiary Name: Vimlendra Prasad Mohli

Village Name: Bhutkuru







0



- Beneficiary Name: Wakil Singh
- Village Name: Bhutkuru

B. Stone Pitching: -



- Place: Badka Talab
- Village Name: Gorabali
- C. Godat Pond Ghat, Gorabal



#### C. Dustbin Construction



- Place: Godat Talab
- o Village Name: Gorabali

#### Lotan Pond Ghat Construction





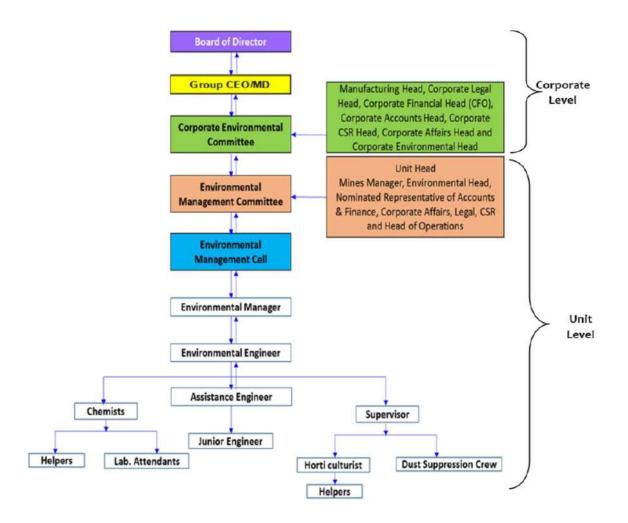
Place: Lotan PondVillage Name: Gorabal





#### BUSINESS RESPONSIBILITY MATRIX

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



# Annexure: XIV BOKARO CEMENT MANUFACTURING WORKS

UNIT OF DALMIA CEMENT (BHARAT) LIMITED

### PROPOSED BUDGET FOR ENVIRONMENT MANAGEMENT AS PER EMP

Sn	ltem	Cost (Rs. in Crores)
1	Cost of Air Pollution Control Systems	
А	APCEs like Bag house with stack & auxiliary Bag filters cost	25
В	Cost of CAQMS & Opacity Meter and Digital Display Board	1.5
С	Road Sweeping Machine & Dry Fog Systems	0.5
D	Auto water Sprinkling system and Water Tanker	0.5
E	Concreting of internal Road	2.5
	Sub Total	30
2	Cost of Water conservation & Pollution Control	
А	STP of 15 KLD	0.25
В	Rain water harvesting system with drainage pipes, Flow meter for raw water, Sprinklers & drip irrigation systems for greenbelt/plantation etc.	0.25
	Sub Total	0.5
3	Cost of Solid Waste Management System-Storage with concrete flooring for Solid & Hazardous waste	0.5
4	Green belt development	0.1
5	Noise Reduction Systems-enclosures for machineries with suitable absorption material, vibration isolators for all fans, compressors etc.	0.5
	Grand Total	31.6

# **BOKARO CEMENT MANUFACTURING WORKS**

UNIT OF DALMIA CEMENT (BHARAT) LIMITED

# INVESTMENT ON ENVIRONMENT PROTECTION MAY 2022 TO March 2023

Sr.no	Item	Cost (Rs. in Crores)
1	Cost of Air Pollution Control Systems	
А	APCEs like Bag house with stack & auxiliary Bag filters cost	17.0
В	Cost of CAQMS & Opacity Meter and Digital Display Board	1.0
С	Road Sweeping Machine cost	0.30
D	2.Nos water spray tanker	0.05
Е	Concreting of internal roads and drainage system	2.0
а	Stacker Reclaimer shed	12.30
2	Cost of Water conservation & Pollution Control	
A	Rain water harvesting system with drainage pipes, Flow meter for raw water etc.	0.02
В	Soak pit and drainage settling chambers constructed	0.03
3	Cost of Solid Waste Management System-Storage with concrete flooring for Solid & Hazardous waste	0.02
4	Green belt development	0.06
5	Noise Reduction Systems-enclosures for machineries with suitable absorption material, vibration isolators for all fans, compressors etc.	0.10
	Total	32.88

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

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



#### **Annexure-XVI**

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



Dalmia cement FUTURE TODAY

ED2579564171N 1VR:6974257956417 gP BSCITY RS 50 (827610) Counter Nat1,04/03/2023,10:17 To:THE DIRECTOR .RANCH1 PIN1834002, Doranda H0 FromisRADEEV VERMA,DGLMIA CEMENT Wir82gns Amt:41.30(Cash/Taxié.30

(Track on www.indiapost.gov.in) (Diai 19062666868) (Wear Masks, ement! sugar! refractories! power!

Date:02.03.2023

The Director,

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

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

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

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

Dear Sir,

With reference to above mentioned subject and reference, we would like to submit that Environmental Clearance has been granted for expansion of cement production capacity of Bokaro Cement Manufacturing Works, a standalone Grinding Unit of Dalmia Cement (Bharat) Limited, from 2.0 Million TPA to 3.1 Million TPA as cited above, by State Level Environment Impact Assessment Authority (SEIAA), Jharkhand as mentioned above under Ref. No 1. Consent to Establish for the proposed expansion has also been granted by Jharkhand State Pollution Control Board as mentioned above under Ref. No 2.

In compliance of condition no 1 of XI. MISCELLANEOUS stipulated in granted EC, we have advertised a public notice informing about the grant of EC to proposed expansion in two newspapers named "The Pioneer and Aaj on 02.03.2023" in English as well as in vernacular language i.e. hindi.

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

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

Into htom

Authorized Signatory Encl: As above

Dalmia Cement (Bharat) Limited

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

EJ25795644BIN IVR:697425795644 SP RECETY RS SO (827010) Counter No:1,04/03/2023,10:17 TO: THE MEMBER SECRETARY , RANCHI Dalm PIN:834004, Dhurwa 50 From:SANJEEV VERMA, DALMIA CEMENT Wt:80ges ceme cement! sugar! refractories! power! Ast:41.38(Cash)Tax:6.38 (Track on www.indiapost.gov.in) FUTURE TODAY Date:02.03.2023 (Dial 18602666868) (Wear Masker Colors Member Secretory, Jharkhand State Pollution Control Board, Township Administration Building (Ground Floor) **HEC Complex, Dhurwa** Ranchi-834004 Sub.: Proposed Expansion of Cement Production Capacity of "Bokaro Cement Manufacturing Works", A Standalone Grinding Unit of Dalmia Cement (Bharat) Limited, from 2.0 Million TPA to 3.1 Million TPA at Plot No. IV/a-7(p)4, Village- Gorabali, Notified Bokaro Industrial Area Under JIADA, Balidih Phase-4, Bokaro, Jharkhand. Reg. Submission of copy of Environmental Clearance. Ref.: 1. Environmental Clearance granted by State Level Environment Impact Assessment Authority (SEIAA), Jharkhand vide EC Identification No.: EC23B000JH199098; File No: EC/SEIAA/2022-23/26462023; letter no EC/SEIAA/2022-23/ 2646/2022/366, dated 30.01.2023 & EC issuance date 08.02.2023. 2. Consent to Establish granted by Jharkhand State Pollution Control Board vide Ref. No.: JSPCB/HO/RNC/CTE-15399804/2023/128 dated 23.02.2023 Dear Sir. With reference to above mentioned subject and reference, we would like to submit that Environmental Clearance has been granted for expansion of cement production capacity of Bokaro Cement Manufacturing Works, a standalone Grinding Unit of Dalmia Cement (Bharat) Limited, from 2.0 Million TPA to 3.1 Million TPA as cited above, by State Level Environment Impact Assessment Authority (SEIAA), Jharkhand as mentioned above under Ref. No 1. Consent to Establish for the proposed expansion has also been granted by Jharkhand State Pollution Control Board as mentioned above under Ref. No 2. In compliance of condition no 1 of XI. MISCELLANEOUS stipulated in granted EC, we have advertised a public notice informing about the grant of EC to proposed expansion in two newspapers named "The Pioneer and Aaj on 02.03.2023" in English as well as in vernacular language i.e. hindi. In compliance of condition no 2. of XI. MISCELLANEOUS stipulated in granted EC, A Copy of Environmental Clearance, Consent to Establish and Original copy of both Newspapers are being submitted herewith for your information and record. Thanking You **Yours Faithfully** For M/s. Dalmia Cement (Bharat) Ltd. (Unit: Bokaro Cement Manufacturing Works) the man **Authorized Signatory** Encl: As above Dalmia Cement (Bharat) Limited Unit : Bokaro Cement Manufacturing Works Plot No. IV/A-7(P)4, Bokaro Industrial Area, Balidih, Bokaro Steel City, Bokaro-827014, Jharkhand, India T+91 6542 253 278 / +91 6542 253 047 Toll Free 1800 2020 W www.dalmiacement.com CIN:U65191TN1996PLC035963 Registered Office : Dalmiapuram, District Tiruchirapalli, Tamil Nadu - 621 651, India. A Dalmia Bharat Group Company, www.dalmiabharat.com

EJ237956434IN IVR:6974257956434 SP BSCITY RS 50 (827010) Counter No:1,04/83/2023,10:17 To:THE SECRETARY ,RANCHI PIN:834084, Dhurwa 50 From:SANJEEV VERNA,DALMIA CEMENT

Wt:85ges

spirit Julianto Jan cementl sugar! refractories! power!

(Track on www.indiapost.gov.in) (Dial 19002666868) (Wear Maskstufelan Hode

Date:02.03.2023

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

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

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

Dear Sir,

Dalm

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

To

FUTURE TODAY

cement

With reference to above mentioned subject and reference, we would like to submit that Environmental Clearance has been granted for expansion of cement production capacity of Bokaro Cement Manufacturing Works, a standalone Grinding Unit of Dalmia Cement (Bharat) Limited, from 2.0 Million TPA to 3.1 Million TPA as cited above, by State Level Environment Impact Assessment Authority (SEIAA), Jharkhand as mentioned above under Ref. No 1. Consent to Establish for the proposed expansion has also been granted by Jharkhand State Pollution Control Board as mentioned above under Ref. No 2.

In compliance of condition no 1 of XI. MISCELLANEOUS stipulated in granted EC, we have advertised a public notice informing about the grant of EC to proposed expansion in two newspapers named "The Pioneer and Aaj on 02.03.2023" in English as well as in vernacular language i.e. hindi.

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

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

1 Asimp

Authorized Signatory Encl: As above

Dalmia Cement (Bharat) Limited

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



cement! sugar! refractories! power!

Date:02.03.2023

To The Deputy Commissioner, Bokaro Steel City Bokaro Jharkhand

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

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

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

Dear Sir,

With reference to above mentioned subject and reference, we would like to submit that Environmental Clearance has been granted for expansion of cement production capacity of Bokaro Cement Manufacturing Works, a standalone Grinding Unit of Dalmia Cement (Bharat) Limited, from 2.0 Million TPA to 3.1 Million TPA as cited above, by State Level Environment Impact Assessment Authority (SEIAA), Jharkhand as mentioned above under Ref. No 1. Consent to Establish for the proposed expansion has also been granted by Jharkhand State Pollution Control Board as mentioned above under Ref. No 2.

In compliance of condition no 1 of XI. MISCELLANEOUS stipulated in granted EC, we have advertised a public notice informing about the grant of EC to proposed expansion in two newspapers named "The Pioneer and Aaj on 02.03.2023" in English as well as in vernacular language i.e. hindi.

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

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

A. himmi

Authorized Signatory Encl: As above

Dalmia Cement (Bharat) Limited

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

# 

cement! sugar! refractories! power!

Date:02.03.2023

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

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

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

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

Dear Sir,

With reference to above mentioned subject and reference, we would like to submit that Environmental Clearance has been granted for expansion of cement production capacity of Bokaro Cement Manufacturing Works, a standalone Grinding Unit of Dalmia Cement (Bharat) Limited, from 2.0 Million TPA to 3.1 Million TPA as cited above, by State Level Environment Impact Assessment Authority (SEIAA), Jharkhand as mentioned above under Ref. No 1. Consent to Establish for the proposed expansion has also been granted by Jharkhand State Pollution Control Board as mentioned above under Ref. No 2.

In compliance of condition no 1 of XI. MISCELLANEOUS stipulated in granted EC, we have advertised a public notice informing about the grant of EC to proposed expansion in two newspapers named "The Pioneer and Aaj on 02.03.2023" in English as well as in vernacular language i.e. hindi.

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

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

thinkny . **Authorized Signatory** 

Encl: As above

म्युरिबटा म्युरिबटा पान पंचायत गोडाबाली द० प्रायण्ड-चास (बोकारी)

#### Dalmia Cement (Bharat) Limited

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



EJ2579564031N IVR:6974257956403 SP BSCITY RS 50 (82700) Counter No:1,84/03/2023,10:17 To:THE KEMBER SECRETARY ,RANCHI PIN:030004, DHUMA SO From:SANJEEV VERMA,DALMIA CEMENT W1:850as

Amt: 01.30(Cash)Taxi6.30 (Track on www.indiapost.gov.10) (Dial 18002666868) (Wear Masks, arcdiv cement! sugar! refractories! power!

Date:02.03.2023

Member Secretory,

To

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

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

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

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

Dear Sir,

With reference to above mentioned subject and reference, we would like to submit that Environmental Clearance has been granted for expansion of cement production capacity of Bokaro Cement Manufacturing Works, a standalone Grinding Unit of Dalmia Cement (Bharat) Limited, from 2.0 Million TPA to 3.1 Million TPA as cited above, by State Level Environment Impact Assessment Authority (SEIAA), Jharkhand as mentioned above under Ref. No 1. Consent to Establish for the proposed expansion has also been granted by Jharkhand State Pollution Control Board as mentioned above under Ref. No 2.

In compliance of condition no 1 of XI. MISCELLANEOUS stipulated in granted EC, we have advertised a public notice informing about the grant of EC to proposed expansion in two newspapers named "The Pioneer and Aaj on 02.03.2023" in English as well as in vernacular language i.e. hindi.

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

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

has home

Authorized Signatory Encl: As above

> Dalmia Cement (Bharat) Limited Unit : Bokaro Cement Manufacturing Works

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