

Dalmia cement

FUTURE TODAY

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DCBL/ENV/2023-24/02

29th November 2023

To,

✓ **Deputy Director General of Forest (C)**
Ministry of Environment, Forests & Climate Change
Govt. of India
Integrated Regional Office, Law – U –Sib,
Lumbatngen, Shillong – 793021, Meghalaya.

Subject: Half Yearly compliance report for the period **April 2023 to September 2023** condition imposed in environment clearance vide letter J-11011/190/2007-IA.II (I) dated; June 19th 2008 for integrated Cement Plant and Captive Power Plant of M/S Dalmia Cement Bharat Limited (Formerly M/s. Adhunik Cement Limited) located at Vill - Thangskai, P.O. Lumshnong, Dist - East Jaintia Hills, Meghalaya-793200.

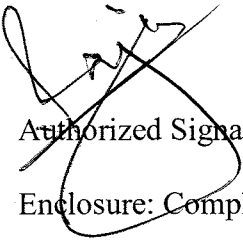
Ref: - Environment Clearance letter no. **J-11011/190/2007-IA.II (I) dated; June 19th 2008.**

Dear Sir,

With reference to above subject and referred letter no, we are submitting herewith six monthly compliance of integrated Cement Plant and Captive Power Plant belonging to M/S Dalmia Cement Bharat Limited (Formerly M/s. Adhunik Cement Limited) located at Vill - Thangskai, P.O. Lumshnong, Dist - East Jaintia Hills, Meghalaya-793200.

We request to kindly acknowledge the receipt of the same.

Thanking you,
Yours faithfully
M/s, Dalmia Cement (Bharat) Limited


Authorized Signatory

Enclosure: Compliance report for the period **April 2023 to September 2023.**

CC to:

- 1) The Member Secretary, Meghalaya State Pollution Control Board, “Arden” Lumpyngad, Shillong-793 014, Meghalaya.
- 2) The Regional Director, Central Pollution Control Board, North Eastern Zonal Office, BSNL Complex, (CTO), Lachumiere, Shillong -793 001, Meghalaya.

Dalmia Cement (Bharat) Limited

Umsoo Mootang, Vill - Thangskai, PO Lumshnong, District - East Jaintia Hills - 793210 (Meghalaya) India
T 91 9612901824/9612 895 625 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

DALMIA CEMENT (BHARAT) LIMITED

Umsoo Mootang, Vill - Thangskai , P.O. Lumshnong , Dist – East Jaintia Hills, Meghalaya - 793 200

COMPLIANCE STATUS

Environment Clearance Letter No: - J-11011/190/2007-IA-II (I) dated: JUNE 19th, 2008.

Period Of Compliance : April 2023 to September 2023

	Conditions	Compliance Status
A	<u>Specific Conditions</u>	
(i)	<p>Continuous stack monitoring facilities to monitor gaseous emissions from all the stacks shall be provided & limit of SPM from cement plant shall be controlled within 50 Mg/Nm³ by installing adequate Air Pollution control system viz. Electrostatic Precipitator (ESP) to cooler & Captive Power Plant, Gas bag house to Raw Mill /Kiln and cement Mills, and Bag filters to material handling areas. At no time the particulate emission from the cement & captive Power Plant shall exceed 50 mg/Nm³ & 100 mg/Nm³ respectively. Interlocking Facility is provided in the pollution control equipment so that in the vent of the pollution control equipment not working, the respective unit is shut down automatically.</p>	<ul style="list-style-type: none"> • Opacity meters are installed at all stacks, i.e. RMBH, Coal mill, Cement mill - 1 Cement Mill - 2, ESP cooler & CPP respectively. Emission levels are within the permissible limit. • ESPs are provided for Clinker cooler & CPP - Boiler and bag house for Cement mill, Raw Mill and Coal mill respectively. • Bag filters are provided at various material transfer points to arrest the fugitive emission. • Compliance status reports is submitted to Ministry including its Regional office at Shillong, MSPCB and CPCB. • Particulate emissions from the Cement Plant is within the prescribed limits i.e. within 30 mg/Nm³ CPP is close since 22nd December 2022, once start, we will do monitoring (Copy of CPP shutdown information shared is attached as Annexure - I). Efforts are being made to meet the emission standards as notified by latest Gazette Notification. Latest Stack Emission Monitoring Report enclosed in Annexure - II. • Interlocking facilities are provided.
(ii)	<p>Secondary fugitive emissions shall be controlled within the prescribed limits & regularly monitored. Guidelines/ Code of Practice issued by CPCB / MSPCB in this regard shall be followed.</p>	<p>Measures have been undertaken to reduce fugitive emissions like all conveyor belts for raw material transfer are covered. Bag filters are installed in every raw material transfer point to control fugitive emissions. Photographs of the same is enclosed as Annexure - III.</p>

		<p>Also, all the plant approach road and internal roads are concreted. Road sweeping machine is being used for cleaning of paved roads to control fugitive dust emissions. Also, a dedicated team for sweeping with broom is being also deployed for cleaning of the internal roads. 12 KL Water tanker is also deployed for water sprinkling in entire approach roads. Photographs of the same is enclosed as <u>Annexure - IV.</u></p> <p>Regular Fugitive emission monitoring is being undertaken and emissions level are within the prescribed limits. Latest Fugitive emission monitoring report is attached as <u>Annexure - V.</u></p> <p>However, as per the instruction received, installation of permanent water sprinkler system to reduce fugitive emissions in the plant's transportation area, coal storage area and other vulnerable area are under progress. Photographs of sprinkler installed in Plant approach road from time office and mines approach road is enclosed as <u>Annexure - VI.</u></p> <p>Complete installation of Permanent water sprinkler will be done in phased manner and we have targeted to complete it by end of December 2023.</p>
(iii)	<p>The company shall install adequate dust collection & extraction System to control fugitive dust emission at various transfer points. Storage of raw material shall be in closed roof sheds. Water sprinkling arrangement shall be made in the Raw material Stock yard and cement bags loading area.</p>	<ul style="list-style-type: none"> • Installed dust collection systems/bag filters at various material transfer points and conveyor belts are covered to reduce fugitive emission. Raw materials, Coal and Fly ash are stored under closed shed. • Water sprinkling arrangement is provided in raw material stock yard, on haul roads and inside the plant to control the dust emission.
(iv)	<p>Effort shall be made to reduce impact of transport of the raw material and end product on the surrounding environment including agriculture land.</p>	<ul style="list-style-type: none"> • Raw materials are transported through covered trucks and there is no impact on surrounding environment.

(v)	Total water requirement from Lunar river shall not exceed 2500 m ³ /day. All the process effluents shall be properly treated and treated waste water shall be recycled and reused for spraying for cooling the mills, dust suppression and green belt development. Domestic effluent water shall be treated and used for the green belt development. No Waste water shall be discharged into any stream /river without proper treatment and shall meet the MSPCB/CPCB/Ministry's norms as mentioned in the E (P) Act.	<ul style="list-style-type: none"> • Water withdrawal from Lunar river is within 2500 m³/day. • STP has been installed and is in operation. • Cement manufacturing process is totally dry, there is no waste water generation. • Treated water is used for road dust suppression / green belt development. • There is no waste water discharge outside the plant premises.
(vi)	Prior permission for the drawl of 2500 m ³ /day from Lunar River shall be obtained from the concern department	<ul style="list-style-type: none"> • Obtained No objection certificate (NOC) from Irrigation Department Jowai, Jaintia hills for 5500 m³/day for Cement and Power plant dated 11th July 2007.
(vii)	The dust collected from the pollution control equipment shall be recycled back into the process and reutilized.	<ul style="list-style-type: none"> • The dusts from bag house and bag filters is recycled into the process and re utilized.
(viii)	Fly ash shall be utilized as per Fly ash notification,1999 subsequently amended in 2003	<ul style="list-style-type: none"> • Total Fly ash generated from the CPP is utilized in existing cement manufacturing.
(ix)	An effort shall be made to use of high calorific hazardous waste in the cement kiln and necessary provisions shall be made accordingly.	<p>Complied and being Complied</p> <ul style="list-style-type: none"> • The kiln has been designed to use high calorific hazardous wastes.
(x)	Green belt shall be developed in 17 ha.(33%)out of total 50 ha. in & around the plant as per the CPCB guidelines in consultation with the local DFO	<ul style="list-style-type: none"> • Greenbelt has been developed within the plant and outside boundary which includes about 15,164 nos. of sapling over an area of 16.89 Ha (~34%). Details of Plantation done so far is enclosed as Annexure - VII. Google image of the Green belt is enclosed as Annexure-VIII. Photographs of some greenbelt / plantation area attached as Annexure - IX. Gap Plantation will be undertaken in those areas in coming years.
(xi)	All the recommendations of the Corporate Responsibility for Environment Protection (CREP) shall be strictly followed.	<p>Complied</p> <ul style="list-style-type: none"> • All CREP conditions for the Cement plants and Power plants are being implemented and strictly followed.
B	General Conditions	


(i)	The project authority must adhere to the stipulations made by Meghalaya State Pollution Control Board and State Government	<ul style="list-style-type: none"> • Yes, We comply with all the stipulation made by the Meghalaya SPCB, CPCB and State Govt.
(ii)	No further expansion or modification of the plant shall be carried out without prior approval of the ministry	<ul style="list-style-type: none"> • Noted. In future, if any expansion or modification is proposed, prior approval will be obtained from the ministry.
(iii)	At Least 4 Ambient air quality monitoring stations shall be established in the downward direction as well as where maximum ground level concentration of the SPM, SO ₂ and NO _x are anticipated in consultation with the Meghalaya State Pollution Control Board. Data on Ambient air quality and stack emissions shall be regularly submitted to this ministry including its regional office at Shillong and Meghalaya State Pollution Control Board once in Six Months.	<ul style="list-style-type: none"> • We have established four (4) ambient air quality-monitoring stations as suggested by the Meghalaya State Pollution Control Board. • Data on ambient air quality and stack emission are submitted to MSPCB on regular basis. Six monthly report to Regional office of MoEF&CC is being submitted. Latest Ambient Air Quality Monitoring & Stack Emission monitoring report enclosed in Annexure - X & II respectively. • We have also carried out Monitoring for all 12 parameters of Ambient Air Quality Monitoring as mentioned in MoE&FCC Notifications G.S.R. 826 (E), dated 16.11.2009. Copy of latest Ambient Air Quality Monitoring Report is attached as Annexure - XI. We also assure that same will be continued in future compliances
(iv)	Industrial waste water shall be properly collected and treated so as to conform to the standards prescribed under GSR 422(E) dated 19th May 1993 and 31st December 1993 or as amended from time to time .The treated waste water shall be utilized for plantation purpose.	<ul style="list-style-type: none"> • Our cement manufacturing process is totally dry process; there is no waste water generation. • We maintaining zero discharge for the entire plant. • Waste-water generated from CPP is reused. • Waste-water generated from mines workshop is used for dust suppression after removing the oil & grease traces through ETP.
(v)	The overall Noise level in & around the Plant area shall be kept well within the standard (85 dbA) by providing noise control measures including acoustic hoods, silencers, enclosures etc. on all sources of noise generation. The ambient noise levels shall confirm to the standards prescribed under environmental (Protection) Act, 1986 Rules, 1989 viz. 75dBA (day time) and 70 dbA (Night time).	<ul style="list-style-type: none"> • We maintained over all noise level within prescribed limit in and around the plant area. • The ambient noise levels are well within the standards prescribed under EPA Rules viz., 75 dB (A) (Daytime) and 70 dB (A) (Night time). • The monitoring is carried out regularly and Latest Monitoring report is attached herewith in Annexure - XII.
(vi)	Proper Housekeeping & adequate	<ul style="list-style-type: none"> • We maintained good housekeeping in all areas

	<p>occupational Health programmes must be taken up. Occupational Health surveillance programme shall be done on a regular basis and records maintained. The programme must include Lung function and sputum analysis tests once in six months.</p>	<p>of plant. Pphotographs of some area - before and after Housekeeping are attached as Annexure-XIII.</p> <ul style="list-style-type: none"> • Personal protective equipment/devices are provided to all the persons to avoid direct exposure of dust and noise. • Occupational Health surveillance program is also regularly done. Lung Function and sputum analysis is also regular carried out. Test report of Lung function and sputum analysis is enclosed as Annexure - XIV.
(vii)	<p>The company shall harvest the rainwater from the rooftops and storm water drains to recharge the ground water.</p>	<p>This condition may not be applicable to the area as the plant is located in East Jaintia Hills of Meghalaya. The Area is mountainous and hilly and receives very high Rainfall. The plant is located at altitude of 750m amsl. Groundwater availability and prospects is limited to valley portions only in Hilly area. Therefore, recharging of groundwater is not possible.</p> <p>It is not feasible to recharge groundwater by harvesting rain water due to the site conditions. However, storm water drains along with retaining walls have been be constructed to channelize the rain water.</p> <p>However, we have two nos. (12 lacs litres and 4 lacs litres capacity) of water reservoir for collection of water from Umsoo water intake point and during rainy season same is utilised for rainwater collection and use.</p> <p>Considering the above, It is kindly requested to exempt us from the said condition of recharging groundwater by rainwater harvesting.</p>
(viii)	<p>The company shall undertake eco-development measures including community welfare measures in the project area.</p>	<p>Complied.</p> <p>Undertaking various community welfare measures through CSR activities like.</p> <ol style="list-style-type: none"> 1. Construction of footbridge cum culvert 2. Promotion of fuel efficient cook stoves and solar study lamps.

		<p>3. Medical camps, construction of schools toilets and awareness camps</p> <p>4. Awareness generation campaign. Livelihood and Skill Training. etc.</p> <p>Report of the same is submitted to your good vide letter dated 8-10-2023.</p>
(ix)	The project proponent shall also comply with all the environmental protection measures and safeguards recommended in the EIA/EMP.	Yes, we are complying with EIA/EMP.
(x)	A separate environmental management cell with full-fledged laboratory facilities to carry out the various management and monitoring functions shall be set up under the control of Senior Executive.	A separate Environment Management Cell has been established with qualified person to carry out various environment functions under the chairmanship of Unit Head.
(xi)	As proposed in the EIA/EMP, Project authorities shall provide Rs. 40.00 Cores towards capital cost for Environmental Pollution control measures for the environmental protection measures to implement the conditions stipulated by the Ministry of Environment and Forests as well as the State government and submit implementation schedule for all the conditions stipulated herein to the regional office of this Ministry at Shillong/Central Pollution Control Board /Meghalaya State Pollution Control Board. The funds so provided shall not be diverted for any other purpose.	<p>This has been already sent to your office vide our letter dated 06/07/2011.</p> <p>The funds so provided will not be diverted for any other purpose.</p> <p>The details recurring expenditure towards environmental protection during April, 2023 to September 2023 is enclosed as Annexure - XV.</p>
(xii)	The regional office of this ministry at Shillong / Central pollution control board /Meghalaya pollution control board will monitor the stipulated condition. A Six monthly compliance report and monitored data along with the statistical interpretation shall be submitted to them regularly.	Six monthly compliance report is submitting regularly.
(xiii)	The project authorities shall inform the regional office as well as the ministry, the data of financial closer and final approval of the project by the concern authorities and the date of commencing the land development work.	<p>Financial closure and final approval of the project by the concerned authorities and the date of commencing the land development work was submitted on dated 11.12.2008.</p> <p>The date of commissioning of various units is given as below:</p> <p>CEMENT PLANT : August 2010</p>

		CAPTIVE POWER PLANT(CPP) : February 201
(xiv)	The project proponent Meghalaya inform the public that the project has been accorded environmental clearance by the Ministry and copies of the clearance letter are available with the state Pollution control Board/committee and may also be seen at website of the Ministry of Environment & Forests at http://envfor.nic.in . This should be advertised within seven days from the date of issue of the clearance letter at least in two local newspapers that are widely circulated in the region of which one shall be in the vernacular language of the locality concerned and a copy of the same shall be forwarded to the Regional office at Shillong.	Complied Public notice had been published & cutting of the local newspaper already submitted to the office (ref. letter dated 01/02/2008).

Thanking you,
Yours faithfully
M/s, Dalmia Cement (Bharat) Limited


Authorized Signatory

Annex - I

8/9/23, 2:36 PM

Information regarding 25 MW - Captive Power Plant (CPP) shutdown. - Shibasish Nath - Outlook

Information regarding 25 MW - Captive Power Plant (CPP) shutdown.

Shibasish Nath <nath.shibasish@dalmiacement.com>

Fri 12/30/2022 6:25 PM

To: cems.cpcb <cems.cpcb@nic.in>; zoshillong.cpcb@nic.in <zoshillong.cpcb@nic.in>; mspcb <megspcb@rediffmail.com>; GLENS <glenssupport@knowledgelens.com>; GLens Team <glens@knowledgelens.com>; aditya.cpcb@nic.in <aditya.cpcb@nic.in>

Cc: Raju Ranjan Prasad <prasad.raju@dalmiacement.com>; Vinod Kumar Singh <Singh.Vinod@Dalmiacement.com>; Mahesh Kumar Nenwa <nenwa.mahesh@dalmiabharat.com>; Yogesh R Kathal <Kathal.Yogesh@dalmiacement.com>; Chetan Dalpatbhai Patel <patel.chetan@dalmiacement.com>; Deepak Kumar Saw <krsaw.deepak@dalmiacement.com>

To

Dated – 30th December 2022

Shri Ankur Tiwari
Scientist – C,
Central Pollution Control Board
Ministry of Environment, Forest & Climate Change
New Delhi

Sub: - Information regarding 25 MW - Captive Power Plant (CPP) shutdown.

Sir,

With reference to the subject cited above, we would like to bring to your kind notice that our 25 MW - Captive Power Plant (CPP) of M/s. Dalmia Cement (Bharat) Limited, located at Umsoo Mootang, Thangskai, East Jaintia Hills of Meghalaya is under shutdown for major maintainance. Therefore real time continuous online stack emission monitoring data of CPP will show offline in related server. We will inform you once CPP gets lighted-up.

This is for your information please.

Thanks and Regards
For M/s. Dalmia Cement (Bharat) Limited

Shibasish Nath
Sr. Manager - EHS
Thangskai, Umsoo Motang,
East Jaintia Hills,
Meghalaya
Mob - 961 215 2301

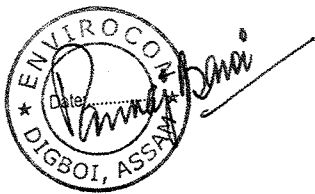
Report No.: ENV/DCBL/23-24/SE-04/01
Date : 09/05/2023

Order No.: 4552001130/311
Date : 02/05/2022

Report Issued To : **DALMIA CEMENT (BHARAT) LIMITED**
Village: Thangskai, Lumshnong, Meghalaya

STACK EMISSION TEST RESULTS

01	Test Ref. No.	DCBL/2023/SE-04/01		
02	Date of Sampling	16.04.2023		
03	Material of Construction	M. S.		
04	Stack Attached To	R. A. B. H.		
05	Stack Diameter (Meter)	3.0		
06	Flue Gas Temperature (°C)	161		
07	Exit Velocity of Gas (m/sec)	25.8		
08	Flow Rate (Nm ³ /hr)	450856		
09	Type of Fuel Used	Kiln Coal		
Analysis Results of Flue Gas				
Sl. No.	Parameter(s)	Result(s)	Unit(s)	Limit(s)
i.	Particulate Matter	24	mg/Nm ³	30
ii.	Sulphur Dioxide (as SO ₂)	674	mg/Nm ³	1000
iii.	Oxides of Nitrogen (as NO _x)	407	mg/Nm ³	800



Checked By: Mr. Pankaj Baroi, ENVIROCON

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Report No.: ENV/DCBL/23-24/SE-04/03
 Date : 09/05/2023

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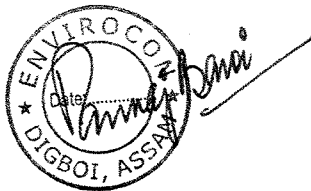
Report Issued To : **DALMIA CEMENT (BHARAT) LIMITED**
 Village: Thangskai, Lumshnong, Meghalaya

STACK EMISSION TEST RESULTS

01	Test Ref. No.	DCBL/2023/SE-04/03		
02	Date of Sampling	16.04.2023		
03	Material of Construction	M. S.		
04	Stack Attached To	Cooler E. S. P.		
05	Stack Diameter (Meter)	4.0		
06	Flue Gas Temperature (°C)	167		
07	Exit Velocity of Gas (m/sec)	9.3		
08	Flow Rate (Nm ³ /hr)	284981		
09	Type of Fuel Used	NA*		
Analysis Results of Flue Gas				
Sl. No.	Parameter(s)	Result(s)	Unit(s)	Limit(s)
i.	Particulate Matter	25	mg/Nm ³	30
ii.	Sulphur Dioxide (as SO ₂)	BDL [#]	mg/Nm ³	1000
iii.	Oxides of Nitrogen (as NO _x)	BDL [#]	mg/Nm ³	800

*NA: Not Applicable

#BDL: Below Detection Level



Checked By: Mr. Pankaj Baroi, ENVIROCON

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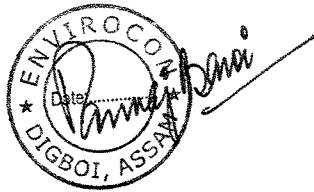
Report Issued To: **DALMIA CEMENT (BHARAT) LIMITED**
Village: Thangskai, Lumshnong, Meghalaya

STACK EMISSION TEST RESULTS

01	Test Ref. No.	DCBL/2023/SE-04/05		
02	Date of Sampling	17.04.2023		
03	Material of Construction	M. S.		
04	Stack Attached To	Cement Mill No. 2		
05	Stack Diameter (Meter)	2.0		
06	Flue Gas Temperature (°C)	65		
07	Exit Velocity of Gas (m/sec)	17.8		
08	Flow Rate (Nm ³ /hr)	177512		
09	Type of Fuel Used	NA*		
Analysis Results of Flue Gas				
Sl. No.	Parameter(s)	Result(s)	Unit(s)	Limit(s)
i.	Particulate Matter	15	mg/Nm ³	30
ii.	Sulphur Dioxide (as SO ₂)	BDL*	mg/Nm ³	1000
iii.	Oxides of Nitrogen (as NO _x)	BDL*	mg/Nm ³	800

*NA: Not Applicable

*BDL: Below Detection Level



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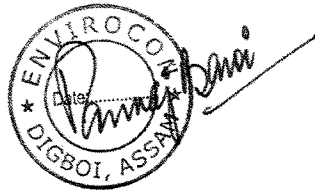
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Date : 02/05/2022

Report Issued To: **DALMIA CEMENT (BHARAT) LIMITED**
Village: Thangskai, Lumshnong, Meghalaya

STACK EMISSION TEST RESULTS

01	Test Ref. No.	DCBL/2023/SE-05/01		
02	Date of Sampling	22.05.2023		
03	Material of Construction	M. S.		
04	Stack Attached To	R. A. B. H.		
05	Stack Diameter (Meter)	3.0		
06	Flue Gas Temperature (°C)	163		
07	Exit Velocity of Gas (m/sec)	26.4		
08	Flow Rate (Nm ³ /hr)	459224		
09	Type of Fuel Used	Kiln Coal		
Analysis Results of Flue Gas				
Sl. No.	Parameter(s)	Result(s)	Unit(s)	Limit(s)
i.	Particulate Matter	22	mg/Nm ³	30
ii.	Sulphur Dioxide (as SO ₂)	726	mg/Nm ³	1000
iii.	Oxides of Nitrogen (as NO _x)	392	mg/Nm ³	800



Checked By: Mr. Pankaj Baroi, ENVIROCON

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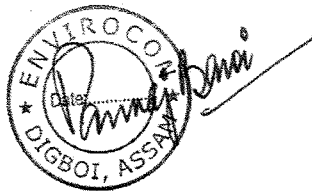
Report Issued To: **DALMIA CEMENT (BHARAT) LIMITED**
Village: Thangskai, Lumshnong, Meghalaya

STACK EMISSION TEST RESULTS

01	Test Ref. No.	DCBL/2023/SE-05/03		
02	Date of Sampling	22.05.2023		
03	Material of Construction	M. S.		
04	Stack Attached To	Cooler E. S. P.		
05	Stack Diameter (Meter)	4.0		
06	Flue Gas Temperature (°C)	143		
07	Exit Velocity of Gas (m/sec)	7.9		
08	Flow Rate (Nm ³ /hr)	256046		
09	Type of Fuel Used	NA*		
Analysis Results of Flue Gas				
Sl. No.	Parameter(s)	Result(s)	Unit(s)	Limit(s)
i.	Particulate Matter	26	mg/Nm ³	30
ii.	Sulphur Dioxide (as SO ₂)	BDL [#]	mg/Nm ³	1000
iii.	Oxides of Nitrogen (as NO _x)	BDL [#]	mg/Nm ³	800

*NA: Not Applicable

*BDL: Below Detection Level



Checked By: Mr. Pankaj Baroi, ENVIROCON

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Report No.: ENV/DCBL/23-24/SE-05/05
 Date : 09/06/2023

Order No.: 4552001130/311
 Date : 02/05/2022

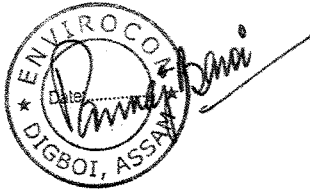
Report Issued To: **DALMIA CEMENT (BHARAT) LIMITED**
 Village: Thangskai, Lumshnong, Meghalaya

STACK EMISSION TEST RESULTS

01	Test Ref. No.	DCBL/2023/SE-05/05		
02	Date of Sampling	23.05.2023		
03	Material of Construction	M. S.		
04	Stack Attached To	Cement Mill No. 2		
05	Stack Diameter (Meter)	2.0		
06	Flue Gas Temperature (°C)	68		
07	Exit Velocity of Gas (m/sec)	18.6		
08	Flow Rate (Nm ³ /hr)	183858		
09	Type of Fuel Used	NA*		
Analysis Results of Flue Gas				
Sl. No.	Parameter(s)	Result(s)	Unit(s)	Limit(s)
i.	Particulate Matter	17	mg/Nm ³	30
ii.	Sulphur Dioxide (as SO ₂)	BDL*	mg/Nm ³	1000
iii.	Oxides of Nitrogen (as NO _x)	BDL*	mg/Nm ³	800

*NA: Not Applicable

*BDL: Below Detection Level



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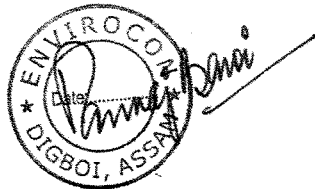
Report No.: ENV/DCBL/23-24/SE-06/03
Date : 06/07/2023

Order No.: 4551000128/311
Date : 09/06/2023

Report Issued To: **DALMIA CEMENT (BHARAT) LIMITED**
Village: Thangskai, Lumshnong, Meghalaya

STACK EMISSION TEST RESULTS

01	Test Ref. No.	DCBL/2023/SE-06/03		
02	Date of Sampling	22.06.2023		
03	Material of Construction	M. S.		
04	Stack Attached To	R. A. B. H.		
05	Stack Diameter (Meter)	3.0		
06	Flue Gas Temperature (°C)	168		
07	Exit Velocity of Gas (m/sec)	19.8		
08	Flow Rate (Nm ³ /hr)	340513		
09	Type of Fuel Used	Kiln Coal		
Analysis Results of Flue Gas				
Sl. No.	Parameter(s)	Result(s)	Unit(s)	Limit(s)
i.	Particulate Matter	19	mg/Nm ³	30
ii.	Sulphur Dioxide (as SO ₂)	545	mg/Nm ³	1000
iii.	Oxides of Nitrogen (as NO _x)	292	mg/Nm ³	800



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Report No.: ENV/DCBL/23-24/SE-06/02
Date : 06/07/2023

Order No.: 4551000128/311
Date : 09/06/2023

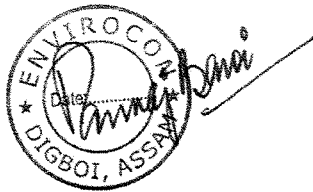
Report Issued To : **DALMIA CEMENT (BHARAT) LIMITED**
Village: Thangskai, Lumshnong, Meghalaya

STACK EMISSION TEST RESULTS

01	Test Ref. No.	DCBL/2023/SE-06/02		
02	Date of Sampling	26.06.2023		
03	Material of Construction	M. S.		
04	Stack Attached To	Cooler E. S. P.		
05	Stack Diameter (Meter)	4.0		
06	Flue Gas Temperature (°C)	147		
07	Exit Velocity of Gas (m/sec)	9.3		
08	Flow Rate (Nm ³ /hr)	298551		
09	Type of Fuel Used	NA*		
Analysis Results of Flue Gas				
Sl. No.	Parameter(s)	Result(s)	Unit(s)	Limit(s)
i.	Particulate Matter	22	mg/Nm ³	30
ii.	Sulphur Dioxide (as SO ₂)	BDL#	mg/Nm ³	1000
iii.	Oxides of Nitrogen (as NO _x)	BDL#	mg/Nm ³	800

*NA: Not Applicable

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Report No.: ENV/DCBL/23-24/SE-06/04
Date : 06/07/2023

Order No.: 4551000128/311
Date : 09/06/2023

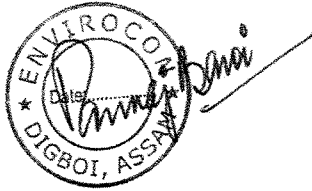
Report Issued To: **DALMIA CEMENT (BHARAT) LIMITED**
Village: Thangskai, Lumshnong, Meghalaya

STACK EMISSION TEST RESULTS

01	Test Ref. No.	DCBL/2023/SE-06/04		
02	Date of Sampling	27.06.2023		
03	Material of Construction	M. S.		
04	Stack Attached To	Cement Mill No. 2		
05	Stack Diameter (Meter)	2.0		
06	Flue Gas Temperature (°C)	67		
07	Exit Velocity of Gas (m/sec)	14.6		
08	Flow Rate (Nm ³ /hr)	144743		
09	Type of Fuel Used	NA*		
Analysis Results of Flue Gas				
Sl. No.	Parameter(s)	Result(s)	Unit(s)	Limit(s)
i.	Particulate Matter	19	mg/Nm ³	30
ii.	Sulphur Dioxide (as SO ₂)	BDL*	mg/Nm ³	1000
iii.	Oxides of Nitrogen (as NO _x)	BDL*	mg/Nm ³	800

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*BDL: Below Detection Level



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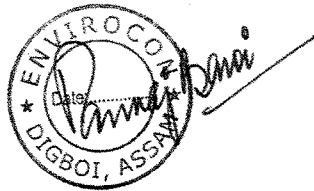
Report No.: ENV/DCBL/23-24/SE-06/03
Date : 02/08/2023

Order No.: 4551000128/311
Date : 09/06/2023

Report Issued To: **DALMIA CEMENT (BHARAT) LIMITED**
Village: Thangskai, Lumshnong, Meghalaya

STACK EMISSION TEST RESULTS

01	Test Ref. No.	DCBL/2023/SE-07/03		
02	Date of Sampling	14.07.2023		
03	Material of Construction	M. S.		
04	Stack Attached To	R. A. B. H.		
05	Stack Diameter (Meter)	3.0		
06	Flue Gas Temperature (°C)	158		
07	Exit Velocity of Gas (m/sec)	24.1		
08	Flow Rate (Nm ³ /hr)	424079		
09	Type of Fuel Used	Kiln Coal		
Analysis Results of Flue Gas				
Sl. No.	Parameter(s)	Result(s)	Unit(s)	Limit(s)
i.	Particulate Matter	21	mg/Nm ³	30
ii.	Sulphur Dioxide (as SO ₂)	741	mg/Nm ³	1000
iii.	Oxides of Nitrogen (as NO _x)	450	mg/Nm ³	800



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 Date : 02/08/2023

Order No.: 4551000128/311
 Date : 09/06/2023

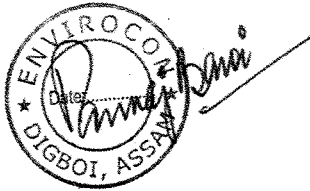
Report Issued To : **DALMIA CEMENT (BHARAT) LIMITED**
 Village: Thangskai, Lumshnong, Meghalaya

STACK EMISSION TEST RESULTS

01	Test Ref. No.	DCBL/2023/SE-07/02		
02	Date of Sampling	14.07.2023		
03	Material of Construction	M. S.		
04	Stack Attached To	Cooler E. S. P.		
05	Stack Diameter (Meter)	4.0		
06	Flue Gas Temperature (°C)	179		
07	Exit Velocity of Gas (m/sec)	9.7		
08	Flow Rate (Nm ³ /hr)	289347		
09	Type of Fuel Used	NA*		
Analysis Results of Flue Gas				
Sl. No.	Parameter(s)	Result(s)	Unit(s)	Limit(s)
i.	Particulate Matter	19	mg/Nm ³	30
ii.	Sulphur Dioxide (as SO ₂)	BDL#	mg/Nm ³	1000
iii.	Oxides of Nitrogen (as NO _x)	BDL#	mg/Nm ³	800

*NA: Not Applicable

#BDL: Below Detection Level



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Report No.: ENV/DCBL/23-24/SE-06/04
Date : 02/08/2023

Order No.: 4551000128/311
Date : 09/06/2023

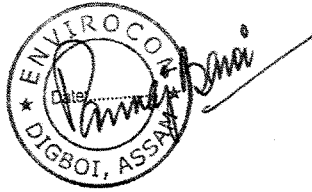
Report Issued To : **DALMIA CEMENT (BHARAT) LIMITED**
Village: Thangskai, Lumshnong, Meghalaya

STACK EMISSION TEST RESULTS

01	Test Ref. No.	DCBL/2023/SE-07/05		
02	Date of Sampling	15.07.2023		
03	Material of Construction	M. S.		
04	Stack Attached To	Cement Mill No. 2		
05	Stack Diameter (Meter)	2.0		
06	Flue Gas Temperature (°C)	68		
07	Exit Velocity of Gas (m/sec)	17.3		
08	Flow Rate (Nm ³ /hr)	171008		
09	Type of Fuel Used	NA*		
Analysis Results of Flue Gas				
Sl. No.	Parameter(s)	Result(s)	Unit(s)	Limit(s)
i.	Particulate Matter	23	mg/Nm ³	30
ii.	Sulphur Dioxide (as SO ₂)	BDL*	mg/Nm ³	1000
iii.	Oxides of Nitrogen (as NO _x)	BDL*	mg/Nm ³	800

*NA: Not Applicable

*BDL: Below Detection Level



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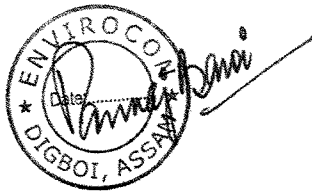
Report No.: ENV/DCBL/23-24/SE-08/01
Date : 08/09/2023

Order No.: 4551000128/311
Date : 09/06/2023

Report Issued To: **DALMIA CEMENT (BHARAT) LIMITED**
Village: Thangskai, Lumshnong, Meghalaya

STACK EMISSION TEST RESULTS

01	Test Ref. No.	DCBL/2023/SE-08/01		
02	Date of Sampling	24.08.2023		
03	Material of Construction	M. S.		
04	Stack Attached To	R. A. B. H.		
05	Stack Diameter (Meter)	3.0		
06	Flue Gas Temperature (°C)	126		
07	Exit Velocity of Gas (m/sec)	45.8		
08	Flow Rate (Nm ³ /hr)	424079		
09	Type of Fuel Used	Kiln Coal		
Analysis Results of Flue Gas				
Sl. No.	Parameter(s)	Result(s)	Unit(s)	Limit(s)
i.	Particulate Matter	27	mg/Nm ³	30
ii.	Sulphur Dioxide (as SO ₂)	741	mg/Nm ³	1000
iii.	Oxides of Nitrogen (as NO _x)	450	mg/Nm ³	800



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Date : 08/09/2023

Order No.: 4551000128/311
Date : 09/06/2023

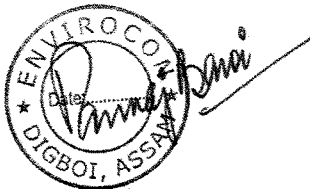
Report Issued To : **DALMIA CEMENT (BHARAT) LIMITED**
Village: Thangskai, Lumshnong, Meghalaya

STACK EMISSION TEST RESULTS

01	Test Ref. No.	DCBL/2023/SE-08/05		
02	Date of Sampling	25.08.2023		
03	Material of Construction	M. S.		
04	Stack Attached To	Cooler E. S. P.		
05	Stack Diameter (Meter)	4.0		
06	Flue Gas Temperature (°C)	108		
07	Exit Velocity of Gas (m/sec)	8.8		
08	Flow Rate (Nm ³ /hr)	289347		
09	Type of Fuel Used	NA*		
Analysis Results of Flue Gas				
Sl. No.	Parameter(s)	Result(s)	Unit(s)	Limit(s)
i.	Particulate Matter	27	mg/Nm ³	30
ii.	Sulphur Dioxide (as SO ₂)	BDL*	mg/Nm ³	1000
iii.	Oxides of Nitrogen (as NO _x)	BDL*	mg/Nm ³	800

*NA: Not Applicable

*BDL: Below Detection Level



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Report No.: ENV/DCBL/23-24/SE-08/04
Date : 08/09/2023

Order No.: 4551000128/311
Date : 09/06/2023

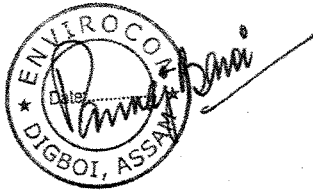
Report Issued To: **DALMIA CEMENT (BHARAT) LIMITED**
Village: Thangskai, Lumshnong, Meghalaya

STACK EMISSION TEST RESULTS

01	Test Ref. No.	DCBL/2023/SE-08/04		
02	Date of Sampling	24.08.2023		
03	Material of Construction	M. S.		
04	Stack Attached To	Cement Mill No. 2		
05	Stack Diameter (Meter)	2.0		
06	Flue Gas Temperature (°C)	87		
07	Exit Velocity of Gas (m/sec)	11.8		
08	Flow Rate (Nm ³ /hr)	171008		
09	Type of Fuel Used	NA*		
Analysis Results of Flue Gas				
Sl. No.	Parameter(s)	Result(s)	Unit(s)	Limit(s)
i.	Particulate Matter	24	mg/Nm ³	30
ii.	Sulphur Dioxide (as SO ₂)	BDL*	mg/Nm ³	1000
iii.	Oxides of Nitrogen (as NO _x)	BDL*	mg/Nm ³	800

*NA: Not Applicable

*BDL: Below Detection Level



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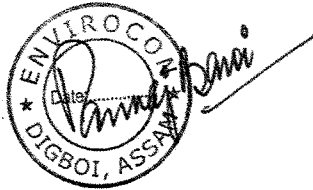
Report No.: ENV/DCBL/23-24/SE-09/01
 Date : 29/09/2023

Order No.: 4551000128/311
 Date : 09/06/2023

Report Issued To : **DALMIA CEMENT (BHARAT) LIMITED**
 Village: Thangskai, Lumshnong, Meghalaya

STACK EMISSION TEST RESULTS

01	Test Ref. No.	DCBL/2023/SE-09/01		
02	Date of Sampling	02.09.2023		
03	Material of Construction	M. S.		
04	Stack Attached To	R. A. B. H.		
05	Stack Diameter (Meter)	3.0		
06	Flue Gas Temperature (°C)	155		
07	Exit Velocity of Gas (m/sec)	21.3		
08	Flow Rate (Nm ³ /hr)	377436		
09	Type of Fuel Used	Kiln Coal		
Analysis Results of Flue Gas				
Sl. No.	Parameter(s)	Result(s)	Unit(s)	Limit(s)
i.	Particulate Matter	22	mg/Nm ³	30
ii.	Sulphur Dioxide (as SO ₂)	649	mg/Nm ³	1000
iii.	Oxides of Nitrogen (as NO _x)	391	mg/Nm ³	800



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Date : 29/09/2023

Order No.: 4551000128/311
Date : 09/06/2023

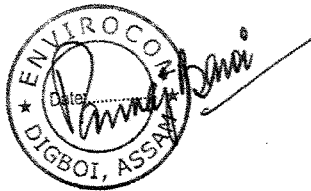
Report Issued To: **DALMIA CEMENT (BHARAT) LIMITED**
Village: Thangskai, Lumshnong, Meghalaya

STACK EMISSION TEST RESULTS

01	Test Ref. No.	DCBL/2023/SE-09/05		
02	Date of Sampling	03.09.2023		
03	Material of Construction	M. S.		
04	Stack Attached To	Cooler E. S. P.		
05	Stack Diameter (Meter)	4.0		
06	Flue Gas Temperature (°C)	133		
07	Exit Velocity of Gas (m/sec)	10.2		
08	Flow Rate (Nm ³ /hr)	338734		
09	Type of Fuel Used	NA*		
Analysis Results of Flue Gas				
Sl. No.	Parameter(s)	Result(s)	Unit(s)	Limit(s)
i.	Particulate Matter	25	mg/Nm ³	30
ii.	Sulphur Dioxide (as SO ₂)	BDL*	mg/Nm ³	1000
iii.	Oxides of Nitrogen (as NO _x)	BDL*	mg/Nm ³	800

*NA: Not Applicable

*BDL: Below Detection Level



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Report No.: ENV/DCBL/23-24/SE-09/04
 Date : 29/09/2023

Order No.: 4551000128/311
 Date : 09/06/2023

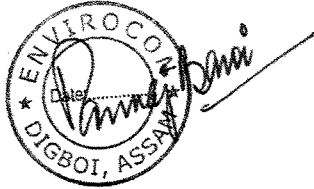
Report Issued To : **DALMIA CEMENT (BHARAT) LIMITED**
 Village: Thangskai, Lumshnong, Meghalaya

STACK EMISSION TEST RESULTS

01	Test Ref. No.	DCBL/2023/SE-09/04		
02	Date of Sampling	03.09.2023		
03	Material of Construction	M. S.		
04	Stack Attached To	Cement Mill No. 2		
05	Stack Diameter (Meter)	2.0		
06	Flue Gas Temperature (°C)	66		
07	Exit Velocity of Gas (m/sec)	12.7		
08	Flow Rate (Nm ³ /hr)	126278		
09	Type of Fuel Used	NA*		
Analysis Results of Flue Gas				
Sl. No.	Parameter(s)	Result(s)	Unit(s)	Limit(s)
i.	Particulate Matter	20	mg/Nm ³	30
ii.	Sulphur Dioxide (as SO ₂)	BDL*	mg/Nm ³	1000
iii.	Oxides of Nitrogen (as NO _x)	BDL*	mg/Nm ³	800

*NA: Not Applicable

*BDL: Below Detection Level



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Associate Services: Certification by Competent Person (CIF), NDT, Hydraulic Testing, Chartered Engineer Services etc.

Report No.: ENV/DCBL/23-24/SE-09/06
Date : 29/09/2023

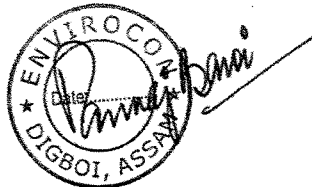
Order No.: 4551000128/311
Date : 09/06/2023

Report Issued To : **DALMIA CEMENT (BHARAT) LIMITED**
Village: Thangskai, Lumshnong, Meghalaya

STACK EMISSION TEST RESULTS

01	Test Ref. No.	DCBL/2023/SE-09/06		
02	Date of Sampling	03.09.2023		
03	Material of Construction	M. S.		
04	Stack Attached To	Crusher B.F.		
05	Stack Diameter (Meter)	0.7		
06	Flue Gas Temperature (°C)	29		
07	Exit Velocity of Gas (m/sec)	4.2		
08	Flow Rate (Nm ³ /hr)	5743		
09	Type of Fuel Used	Coal		
Analysis Results of Flue Gas				
Sl. No.	Parameter(s)	Result(s)	Unit(s)	Limit(s)
i.	Particulate Matter	14	mg/Nm ³	30
ii.	Sulphur Dioxide (as SO ₂)	BDL#	mg/Nm ³	1000
iii.	Oxides of Nitrogen (as NO _x)	BDL#	mg/Nm ³	800

#BDL: Below Detection Level



Checked By: Mr. Pankaj Baroi, ENVIROCON

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Report No.: ENV/DCBL/23-24/SE-09/03
 Date : 29/09/2023

Order No.: 4551000128/311
 Date : 09/06/2023

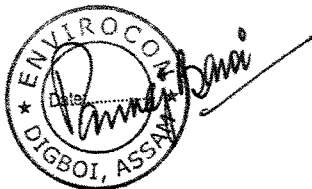
Report Issued To : **DALMIA CEMENT (BHARAT) LIMITED**
 Village: Thangskai, Lumshnong, Meghalaya

STACK EMISSION TEST RESULTS

01	Test Ref. No.	DCBL/2023/SE-09/03		
02	Date of Sampling	02.09.2023		
03	Material of Construction	M. S.		
04	Stack Attached To	Cement Mill No. 1		
05	Stack Diameter (Meter)	2.0		
06	Flue Gas Temperature (°C)	74		
07	Exit Velocity of Gas (m/sec)	19.1		
08	Flow Rate (Nm ³ /hr)	112682		
09	Type of Fuel Used	NA*		
Analysis Results of Flue Gas				
Sl. No.	Parameter(s)	Result(s)	Unit(s)	Limit(s)
i.	Particulate Matter	24	mg/Nm ³	30
ii.	Sulphur Dioxide (as SO ₂)	BDL#	mg/Nm ³	1000
iii.	Oxides of Nitrogen (as NO _x)	BDL#	mg/Nm ³	800

*NA: Not Applicable

#BDL: Below Detection Level



Checked By: Mr. Pankaj Baroi, ENVIROCON

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Report No.: ENV/DCBL/23-24/SE-09/02
Date : 29/09/2023

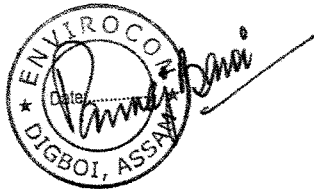
Order No.: 4551000128/311
Date : 09/06/2023

Report Issued To : **DALMIA CEMENT (BHARAT) LIMITED**
Village: Thangskai, Lumshnong, Meghalaya

STACK EMISSION TEST RESULTS

01	Test Ref. No.	DCBL/2023/SE-09/02		
02	Date of Sampling	02.09.2023		
03	Material of Construction	M. S.		
04	Stack Attached To	Coal Mill B.F.		
05	Stack Diameter (Meter)	1.25		
06	Flue Gas Temperature (°C)	54		
07	Exit Velocity of Gas (m/sec)	13.4		
08	Flow Rate (Nm ³ /hr)	53956		
09	Type of Fuel Used	NA*		
Analysis Results of Flue Gas				
Sl. No.	Parameter(s)	Result(s)	Unit(s)	Limit(s)
i.	Particulate Matter	27	mg/Nm ³	30
ii.	Sulphur Dioxide (as SO ₂)	352	mg/Nm ³	1000
iii.	Oxides of Nitrogen (as NO _x)	141	mg/Nm ³	800

*NA: Not Applicable



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Report No.: ENV/DCBL/23-24/SE-08/06
Date : 08/09/2023

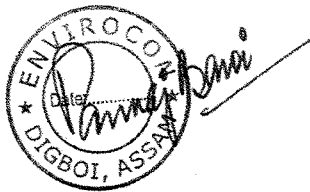
Order No.: 4551000128/311
Date : 09/06/2023

Report Issued To : **DALMIA CEMENT (BHARAT) LIMITED**
Village: Thangskai, Lumshnong, Meghalaya

STACK EMISSION TEST RESULTS

01	Test Ref. No.	DCBL/2023/SE-08/06		
02	Date of Sampling	25.08.2023		
03	Material of Construction	M. S.		
04	Stack Attached To	Crusher B.F.		
05	Stack Diameter (Meter)	0.7		
06	Flue Gas Temperature (°C)	28		
07	Exit Velocity of Gas (m/sec)	4.1		
08	Flow Rate (Nm ³ /hr)	5743		
09	Type of Fuel Used	Coal		
Analysis Results of Flue Gas				
Sl. No.	Parameter(s)	Result(s)	Unit(s)	Limit(s)
i.	Particulate Matter	12	mg/Nm ³	30
ii.	Sulphur Dioxide (as SO ₂)	BDL#	mg/Nm ³	1000
iii.	Oxides of Nitrogen (as NO _x)	BDL#	mg/Nm ³	800

#BDL: Below Detection Level



Checked By: Mr. Pankaj Baroi, ENVIROCON

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Report No.: ENV/DCBL/23-24/SE-08/03
Date : 08/09/2023

Order No.: 4551000128/311
Date : 09/06/2023

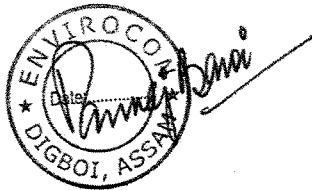
Report Issued To: **DALMIA CEMENT (BHARAT) LIMITED**
Village: Thangskai, Lumshnong, Meghalaya

STACK EMISSION TEST RESULTS

01	Test Ref. No.	DCBL/2023/SE-08/03		
02	Date of Sampling	24.08.2023		
03	Material of Construction	M. S.		
04	Stack Attached To	Cement Mill No. 1		
05	Stack Diameter (Meter)	2.0		
06	Flue Gas Temperature (°C)	64		
07	Exit Velocity of Gas (m/sec)	7.5		
08	Flow Rate (Nm ³ /hr)	114956		
09	Type of Fuel Used	NA*		
Analysis Results of Flue Gas				
Sl. No.	Parameter(s)	Result(s)	Unit(s)	Limit(s)
i.	Particulate Matter	27	mg/Nm ³	30
ii.	Sulphur Dioxide (as SO ₂)	BDL [#]	mg/Nm ³	1000
iii.	Oxides of Nitrogen (as NO _x)	BDL [#]	mg/Nm ³	800

*NA: Not Applicable

#BDL: Below Detection Level



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Report No.: ENV/DCBL/23-24/SE-08/02
Date : 08/09/2023

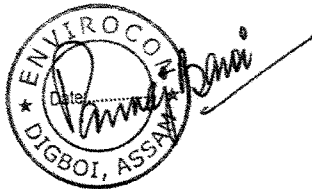
Order No.: 4551000128/311
Date : 09/06/2023

Report Issued To : **DALMIA CEMENT (BHARAT) LIMITED**
Village: Thangskai, Lumshnong, Meghalaya

STACK EMISSION TEST RESULTS

01	Test Ref. No.	DCBL/2023/SE-08/02		
02	Date of Sampling	24.08.2023		
03	Material of Construction	M. S.		
04	Stack Attached To	Coal Mill B.F.		
05	Stack Diameter (Meter)	1.25		
06	Flue Gas Temperature (°C)	53		
07	Exit Velocity of Gas (m/sec)	14.8		
08	Flow Rate (Nm ³ /hr)	55737		
09	Type of Fuel Used	NA*		
Analysis Results of Flue Gas				
Sl. No.	Parameter(s)	Result(s)	Unit(s)	Limit(s)
i.	Particulate Matter	24	mg/Nm ³	30
ii.	Sulphur Dioxide (as SO ₂)	448	mg/Nm ³	1000
iii.	Oxides of Nitrogen (as NO _x)	157	mg/Nm ³	800

*NA: Not Applicable



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Report No.: ENV/DCBL/23-24/SE-06/06
 Date : 02/08/2023

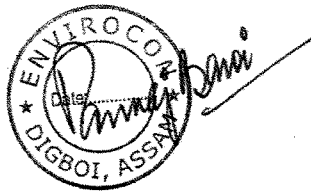
Order No.: 4551000128/311
 Date : 09/06/2023

Report Issued To : **DALMIA CEMENT (BHARAT) LIMITED**
 Village: Thangskai, Lumshnong, Meghalaya

STACK EMISSION TEST RESULTS

01	Test Ref. No.	DCBL/2023/SE-07/06		
02	Date of Sampling	17.06.2023		
03	Material of Construction	M. S.		
04	Stack Attached To	Crusher B.F.		
05	Stack Diameter (Meter)	0.7		
06	Flue Gas Temperature (°C)	29		
07	Exit Velocity of Gas (m/sec)	4.2		
08	Flow Rate (Nm ³ /hr)	5743		
09	Type of Fuel Used	Coal		
Analysis Results of Flue Gas				
Sl. No.	Parameter(s)	Result(s)	Unit(s)	Limit(s)
i.	Particulate Matter	14	mg/Nm ³	30
ii.	Sulphur Dioxide (as SO ₂)	BDL*	mg/Nm ³	1000
iii.	Oxides of Nitrogen (as NO _x)	BDL*	mg/Nm ³	800

*BDL: Below Detection Level



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Report No.: ENV/DCBL/23-24/SE-06/05
Date : 02/08/2023

Order No.: 4551000128/311
Date : 09/06/2023

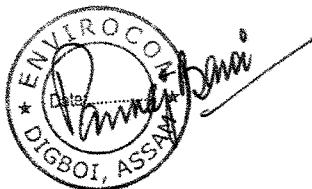
Report Issued To : **DALMIA CEMENT (BHARAT) LIMITED**
Village: Thangskai, Lumshnong, Meghalaya

STACK EMISSION TEST RESULTS

01	Test Ref. No.	DCBL/2023/SE-07/04		
02	Date of Sampling	15.07.2023		
03	Material of Construction	M. S.		
04	Stack Attached To	Cement Mill No. 1		
05	Stack Diameter (Meter)	2.0		
06	Flue Gas Temperature (°C)	73		
07	Exit Velocity of Gas (m/sec)	11.8		
08	Flow Rate (Nm ³ /hr)	114956		
09	Type of Fuel Used	NA*		
Analysis Results of Flue Gas				
Sl. No.	Parameter(s)	Result(s)	Unit(s)	Limit(s)
i.	Particulate Matter	26	mg/Nm ³	30
ii.	Sulphur Dioxide (as SO ₂)	BDL [#]	mg/Nm ³	1000
iii.	Oxides of Nitrogen (as NO _x)	BDL [#]	mg/Nm ³	800

*NA: Not Applicable

#BDL: Below Detection Level



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Report No.: ENV/DCBL/23-24/SE-06/01
Date : 02/08/2023

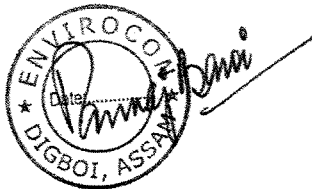
Order No.: 4551000128/311
Date : 09/06/2023

Report Issued To : **DALMIA CEMENT (BHARAT) LIMITED**
Village: Thangskai, Lumshnong, Meghalaya

STACK EMISSION TEST RESULTS

01	Test Ref. No.	DCBL/2023/SE-07/01		
02	Date of Sampling	14.07.2023		
03	Material of Construction	M. S.		
04	Stack Attached To	Coal Mill B.F.		
05	Stack Diameter (Meter)	1.25		
06	Flue Gas Temperature (°C)	53		
07	Exit Velocity of Gas (m/sec)	13.8		
08	Flow Rate (Nm ³ /hr)	55737		
09	Type of Fuel Used	NA*		
Analysis Results of Flue Gas				
Sl. No.	Parameter(s)	Result(s)	Unit(s)	Limit(s)
i.	Particulate Matter	22	mg/Nm ³	30
ii.	Sulphur Dioxide (as SO ₂)	448	mg/Nm ³	1000
iii.	Oxides of Nitrogen (as NO _x)	157	mg/Nm ³	800

*NA: Not Applicable



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Report No.: ENV/DCBL/23-24/SE-06/06
Date : 06/07/2023

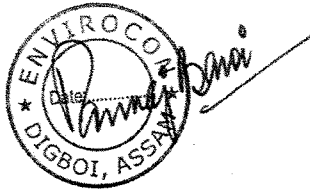
Order No.: 4551000128/311
Date : 09/06/2023

Report Issued To : **DALMIA CEMENT (BHARAT) LIMITED**
Village: Thangskai, Lumshnong, Meghalaya

STACK EMISSION TEST RESULTS

01	Test Ref. No.	DCBL/2023/SE-06/06		
02	Date of Sampling	27.06.2023		
03	Material of Construction	M. S.		
04	Stack Attached To	Crusher B.F.		
05	Stack Diameter (Meter)	0.7		
06	Flue Gas Temperature (°C)	28		
07	Exit Velocity of Gas (m/sec)	3.8		
08	Flow Rate (Nm ³ /hr)	5212		
09	Type of Fuel Used	Coal		
Analysis Results of Flue Gas				
Sl. No.	Parameter(s)	Result(s)	Unit(s)	Limit(s)
i.	Particulate Matter	11	mg/Nm ³	30
ii.	Sulphur Dioxide (as SO ₂)	BDL [#]	mg/Nm ³	1000
iii.	Oxides of Nitrogen (as NO _x)	BDL [#]	mg/Nm ³	800

#BDL: Below Detection Level



Checked By: Mr. Pankaj Baroi, **ENVIROCON**

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Report No.: ENV/DCBL/23-24/SE-06/05
 Date : 06/07/2023

Order No.: 4551000128/311
 Date : 09/06/2023

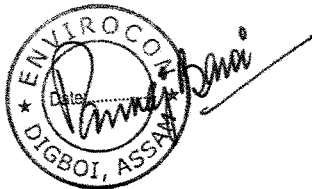
Report Issued To : **DALMIA CEMENT (BHARAT) LIMITED**
 Village: Thangskai, Lumshnong, Meghalaya

STACK EMISSION TEST RESULTS

01	Test Ref. No.	DCBL/2023/SE-06/05		
02	Date of Sampling	27.06.2023		
03	Material of Construction	M. S.		
04	Stack Attached To	Cement Mill No. 1		
05	Stack Diameter (Meter)	2.0		
06	Flue Gas Temperature (°C)	63		
07	Exit Velocity of Gas (m/sec)	17.2		
08	Flow Rate (Nm ³ /hr)	172550		
09	Type of Fuel Used	NA*		
Analysis Results of Flue Gas				
Sl. No.	Parameter(s)	Result(s)	Unit(s)	Limit(s)
i.	Particulate Matter	23	mg/Nm ³	30
ii.	Sulphur Dioxide (as SO ₂)	BDL [#]	mg/Nm ³	1000
iii.	Oxides of Nitrogen (as NO _x)	BDL [#]	mg/Nm ³	800

*NA: Not Applicable

[#]BDL: Below Detection Level



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Report No.: ENV/DCBL/23-24/SE-06/01

Order No.: 4551000128/311

Date : 06/07/2023

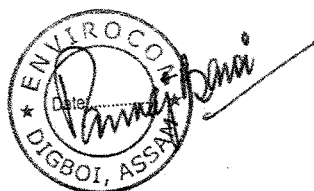
Date : 09/06/2023

Report Issued To : **DALMIA CEMENT (BHARAT) LIMITED**
Village: Thangskai, Lumshnong, Meghalaya

STACK EMISSION TEST RESULTS

01	Test Ref. No.	DCBL/2023/SE-06/01		
02	Date of Sampling	26.06.2023		
03	Material of Construction	M. S.		
04	Stack Attached To	Coal Mill B.F.		
05	Stack Diameter (Meter)	1.25		
06	Flue Gas Temperature (°C)	51		
07	Exit Velocity of Gas (m/sec)	14.2		
08	Flow Rate (Nm ³ /hr)	57707		
09	Type of Fuel Used	NA*		
Analysis Results of Flue Gas				
Sl. No.	Parameter(s)	Result(s)	Unit(s)	Limit(s)
i.	Particulate Matter	24	mg/Nm ³	30
ii.	Sulphur Dioxide (as SO ₂)	302	mg/Nm ³	1000
iii.	Oxides of Nitrogen (as NO _x)	170	mg/Nm ³	800

*NA: Not Applicable



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Report No.: ENV/DCBL/23-24/SE-05/06
Date : 09/06/2023

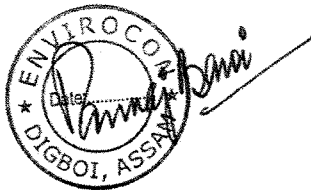
Order No.: 4552001130/311
Date : 02/05/2022

Report Issued To : **DALMIA CEMENT (BHARAT) LIMITED**
Village: Thangskai, Lumshnong, Meghalaya

STACK EMISSION TEST RESULTS

01	Test Ref. No.	DCBL/2023/SE-05/06		
02	Date of Sampling	23.05.2023		
03	Material of Construction	M. S.		
04	Stack Attached To	Crusher B.F.		
05	Stack Diameter (Meter)	0.7		
06	Flue Gas Temperature (°C)	27		
07	Exit Velocity of Gas (m/sec)	3.8		
08	Flow Rate (Nm ³ /hr)	5230		
09	Type of Fuel Used	Coal		
Analysis Results of Flue Gas				
Sl. No.	Parameter(s)	Result(s)	Unit(s)	Limit(s)
i.	Particulate Matter	15	mg/Nm ³	30
ii.	Sulphur Dioxide (as SO ₂)	BDL*	mg/Nm ³	1000
iii.	Oxides of Nitrogen (as NO _x)	BDL*	mg/Nm ³	800

*BDL: Below Detection Level



Checked By: Mr. Pankaj Baroi, ENVIROCON

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Report No.: ENV/DCBL/23-24/SE-05/04
Date : 09/06/2023

Order No.: 4552001130/311
Date : 02/05/2022

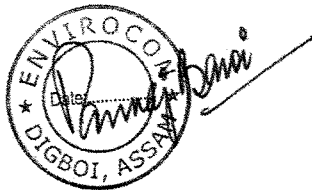
Report Issued To : **DALMIA CEMENT (BHARAT) LIMITED**
Village: Thangskai, Lumshnong, Meghalaya

STACK EMISSION TEST RESULTS

01	Test Ref. No.	DCBL/2023/SE-05/04		
02	Date of Sampling	23.05.2023		
03	Material of Construction	M. S.		
04	Stack Attached To	Cement Mill No. 1		
05	Stack Diameter (Meter)	2.0		
06	Flue Gas Temperature (°C)	76		
07	Exit Velocity of Gas (m/sec)	23.7		
08	Flow Rate (Nm ³ /hr)	228901		
09	Type of Fuel Used	NA*		
Analysis Results of Flue Gas				
Sl. No.	Parameter(s)	Result(s)	Unit(s)	Limit(s)
i.	Particulate Matter	21	mg/Nm ³	30
ii.	Sulphur Dioxide (as SO ₂)	BDL*	mg/Nm ³	1000
iii.	Oxides of Nitrogen (as NO _x)	BDL*	mg/Nm ³	800

*NA: Not Applicable

*BDL: Below Detection Level



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Report No.: ENV/DCBL/23-24/SE-05/02
Date : 09/06/2023

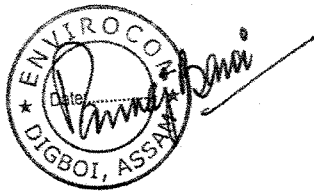
Order No.: 4552001130/311
Date : 02/05/2022

Report Issued To : **DALMIA CEMENT (BHARAT) LIMITED**
Village: Thangskai, Lumshnong, Meghalaya

STACK EMISSION TEST RESULTS

01	Test Ref. No.	DCBL/2023/SE-05/02		
02	Date of Sampling	22.05.2023		
03	Material of Construction	M. S.		
04	Stack Attached To	Coal Mill B.F.		
05	Stack Diameter (Meter)	1.25		
06	Flue Gas Temperature (°C)	50		
07	Exit Velocity of Gas (m/sec)	13.1		
08	Flow Rate (Nm ³ /hr)	53402		
09	Type of Fuel Used	NA*		
Analysis Results of Flue Gas				
Sl. No.	Parameter(s)	Result(s)	Unit(s)	Limit(s)
i.	Particulate Matter	18	mg/Nm ³	30
ii.	Sulphur Dioxide (as SO ₂)	557	mg/Nm ³	1000
iii.	Oxides of Nitrogen (as NO _x)	212	mg/Nm ³	800

*NA: Not Applicable



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Report No.: ENV/DCBL/23-24/SE-04/06
Date : 09/05/2023

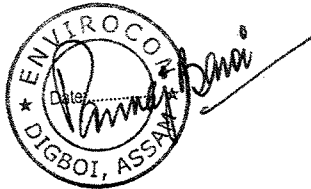
Order No.: 4552001130/311
Date : 02/05/2022

Report Issued To : **DALMIA CEMENT (BHARAT) LIMITED**
Village: Thangskai, Lumshnong, Meghalaya

STACK EMISSION TEST RESULTS

01	Test Ref. No.	DCBL/2023/SE-04/06		
02	Date of Sampling	18.04.2023		
03	Material of Construction	M. S.		
04	Stack Attached To	Crusher B.F.		
05	Stack Diameter (Meter)	0.7		
06	Flue Gas Temperature (°C)	29		
07	Exit Velocity of Gas (m/sec)	4.2		
08	Flow Rate (Nm ³ /hr)	5743		
09	Type of Fuel Used	Coal		
Analysis Results of Flue Gas				
Sl. No.	Parameter(s)	Result(s)	Unit(s)	Limit(s)
i.	Particulate Matter	13	mg/Nm ³	30
ii.	Sulphur Dioxide (as SO ₂)	BDL [#]	mg/Nm ³	1000
iii.	Oxides of Nitrogen (as NO _x)	BDL [#]	mg/Nm ³	800

#BDL: Below Detection Level



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Report No.: ENV/DCBL/23-24/SE-04/04
Date : 09/05/2023

Order No.: 4552001130/311
Date : 02/05/2022

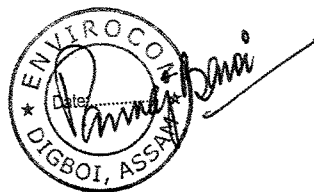
Report Issued To : **DALMIA CEMENT (BHARAT) LIMITED**
Village: Thangskai, Lumshnong, Meghalaya

STACK EMISSION TEST RESULTS

01	Test Ref. No.	DCBL/2023/SE-04/04		
02	Date of Sampling	17.04.2023		
03	Material of Construction	M. S.		
04	Stack Attached To	Cement Mill No. 1		
05	Stack Diameter (Meter)	2.0		
06	Flue Gas Temperature (°C)	73		
07	Exit Velocity of Gas (m/sec)	22.3		
08	Flow Rate (Nm ³ /hr)	217247		
09	Type of Fuel Used	NA*		
Analysis Results of Flue Gas				
Sl. No.	Parameter(s)	Result(s)	Unit(s)	Limit(s)
i.	Particulate Matter	17	mg/Nm ³	30
ii.	Sulphur Dioxide (as SO ₂)	BDL [#]	mg/Nm ³	1000
iii.	Oxides of Nitrogen (as NO _x)	BDL [#]	mg/Nm ³	800

*NA: Not Applicable

*BDL: Below Detection Level



Checked By: Mr. Pankaj Baroi, ENVIROCON

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Report No.: ENV/DCBL/23-24/SE-04/02
Date : 09/05/2023

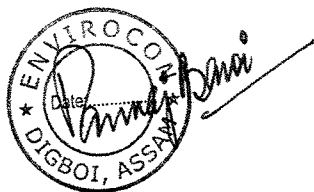
Order No.: 452001130/311
Date : 02/05/2022

Report Issued To : **DALMIA CEMENT (BHARAT) LIMITED**
Village: Thangskai, Lumshnong, Meghalaya

STACK EMISSION TEST RESULTS

01	Test Ref. No.	DCBL/2023/SE-04/02		
02	Date of Sampling	16.04.2023		
03	Material of Construction	M. S.		
04	Stack Attached To	Coal Mill B.F.		
05	Stack Diameter (Meter)	1.25		
06	Flue Gas Temperature (°C)	52		
07	Exit Velocity of Gas (m/sec)	13.6		
08	Flow Rate (Nm ³ /hr)	55099		
09	Type of Fuel Used	NA*		
Analysis Results of Flue Gas				
Sl. No.	Parameter(s)	Result(s)	Unit(s)	Limit(s)
i.	Particulate Matter	16	mg/Nm ³	30
ii.	Sulphur Dioxide (as SO ₂)	415	mg/Nm ³	1000
iii.	Oxides of Nitrogen (as NO _x)	148	mg/Nm ³	800

*NA: Not Applicable



Checked By: Mr. Pankaj Baroi, ENVIROCON

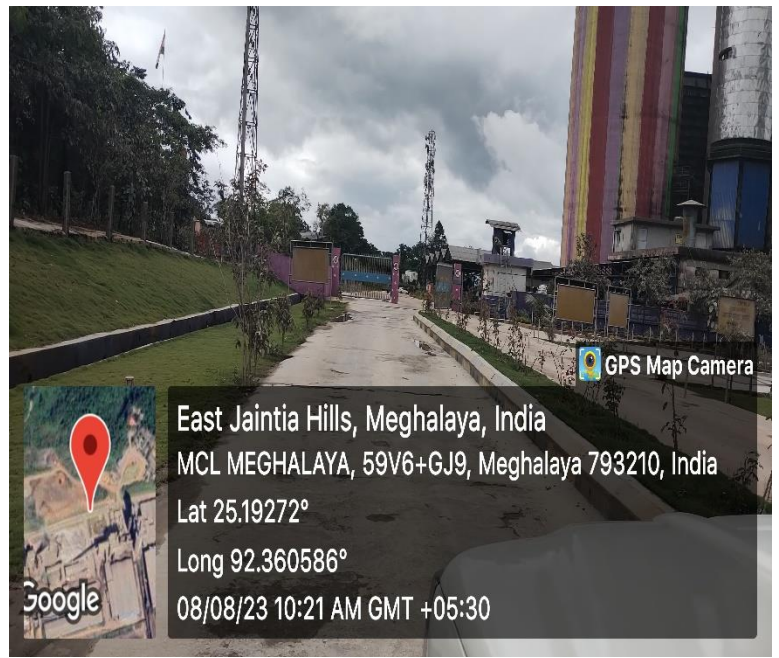
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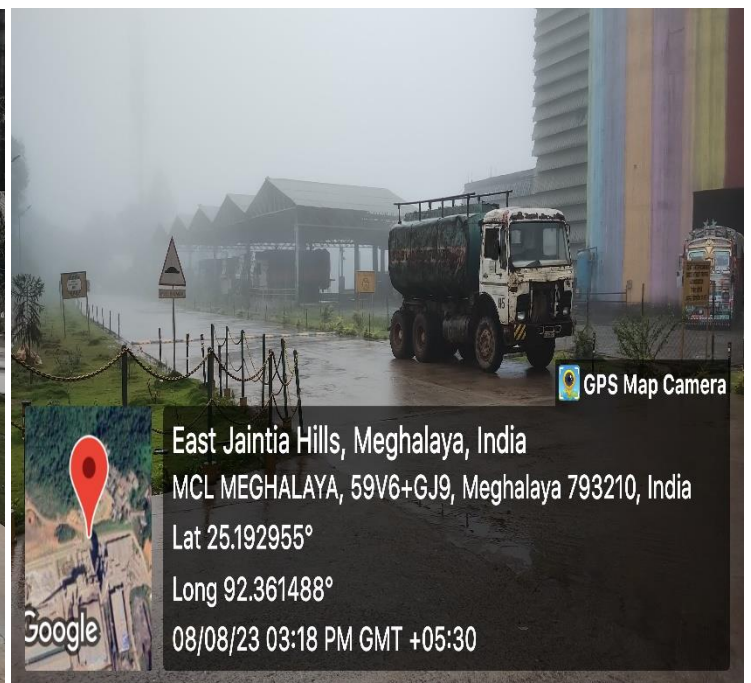
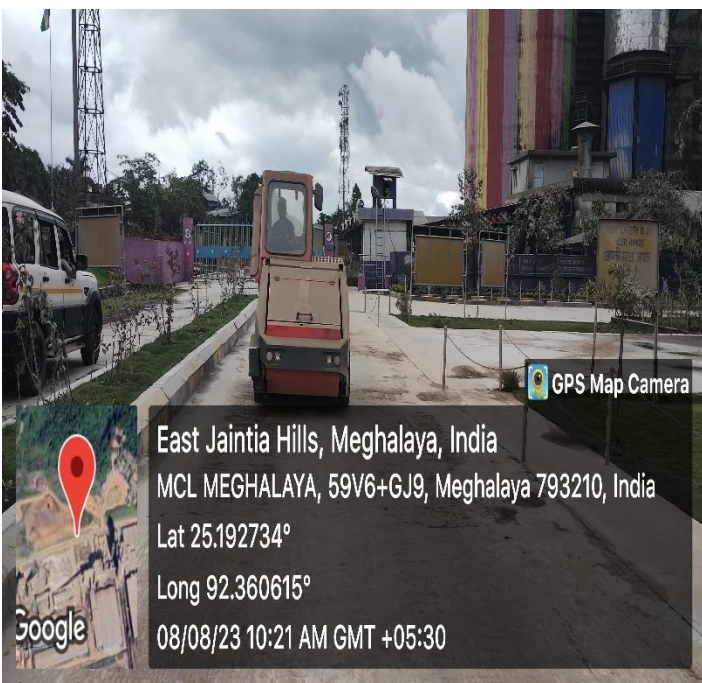
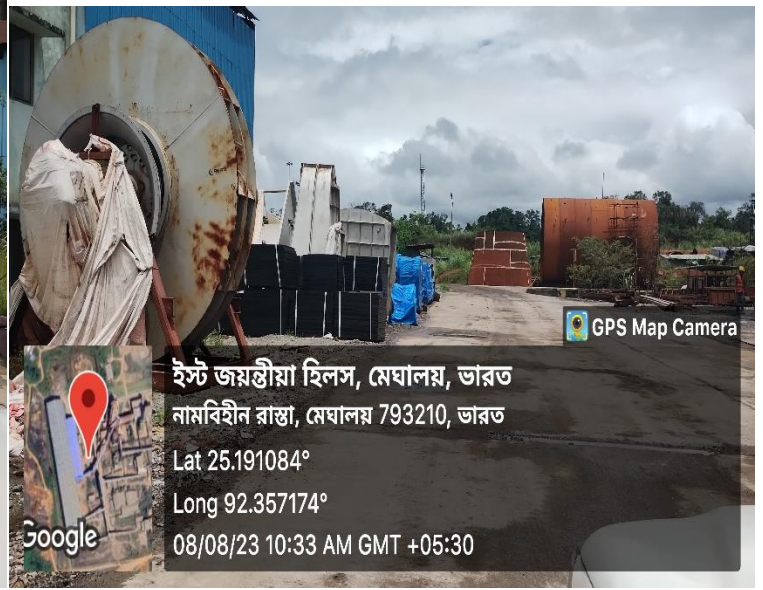
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Annexure – III – A



Annexure – III – B





Report No.: ENV/DCBL/23-24/FE-04/01
Date : 09/05/2023

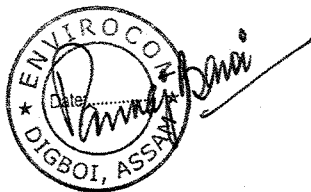
Order No.: 4552001130/311
Date : 02/05/2022

Report Issued To : **DALMIA CEMENT (BHARAT) LIMITED**
Village: Thangskai, Lumshnong, Meghalaya

PROCESS FUGITIVE EMISSION TEST RESULTS

Sl. No.	Locations	Date of Sampling	Results for SPM ($\mu\text{g}/\text{m}^3$)	Limits ($\mu\text{g}/\text{m}^3$)
01	Fly-ash Storage Section	16.04.2023	2065	5000
02	Coal Storage Section	16.04.2023	861	2000
03	Limestone Storage Section	16.04.2023	1042	5000
04	Cement Packing Section	17.04.2023	2431	5000

Analysis Protocol: IS 5182



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Report No.: ENV/DCBL/23-24/FE-05/01
Date : 09/06/2023

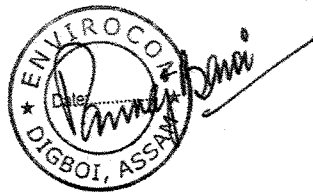
Order No.: 4552001130/311
Date : 02/05/2022

Report Issued To: **DALMIA CEMENT (BHARAT) LIMITED**
Village: Thangskai, Lumshnong, Meghalaya

PROCESS FUGITIVE EMISSION TEST RESULTS

Sl. No.	Locations	Date of Sampling	Results for SPM ($\mu\text{g}/\text{m}^3$)	Limits ($\mu\text{g}/\text{m}^3$)
01	Fly-ash Storage Section	21.05.2023	2062	5000
02	Coal Storage Section	21.05.2023	866	2000
03	Limestone Storage Section	21.05.2023	1038	5000
04	Cement Packing Section	21.05.2023	2436	5000

Analysis Protocol: IS 5182



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Report No.: ENV/DCBL/23-24/FE-06/01
Date : 06/07/2023

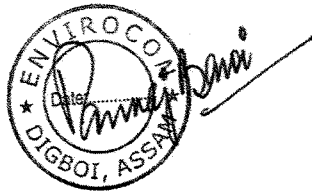
Order No.: 4551000128/311
Date : 09/06/2023

Report Issued To: **DALMIA CEMENT (BHARAT) LIMITED**
Village: Thangskai, Lumshnong, Meghalaya

PROCESS FUGITIVE EMISSION TEST RESULTS

Sl. No.	Locations	Date of Sampling	Results for SPM ($\mu\text{g}/\text{m}^3$)	Limits ($\mu\text{g}/\text{m}^3$)
01	Fly-ash Storage Section	26.06.2023	2038	5000
02	Coal Storage Section	26.06.2023	854	2000
03	Limestone Storage Section	26.06.2023	1042	5000
04	Cement Packing Section	26.06.2023	2428	5000

Analysis Protocol: IS 5182



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Report No.: ENV/DCBL/23-24/FE-07/01
Date : 02/08/2023

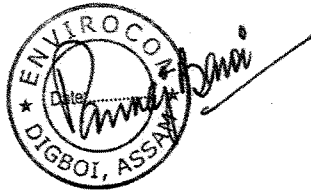
Order No.: 4551000128/311
Date : 09/06/2023

Report Issued To : **DALMIA CEMENT (BHARAT) LIMITED**
Village: Thangskai, Lumshnong, Meghalaya

PROCESS FUGITIVE EMISSION TEST RESULTS

Sl. No.	Locations	Date of Sampling	Results for SPM ($\mu\text{g}/\text{m}^3$)	Limits ($\mu\text{g}/\text{m}^3$)
01	Fly-ash Storage Section	14.07.2023	2042	5000
02	Coal Storage Section	14.07.2023	843	2000
03	Limestone Storage Section	14.07.2023	1053	5000
04	Cement Packing Section	14.07.2023	2432	5000

Analysis Protocol: IS 5182



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Report No.: ENV/DCBL/23-24/FE-08/01
Date : 08/09/2023

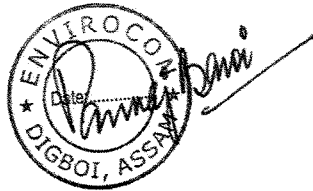
Order No.: 4551000128/311
Date : 09/06/2023

Report Issued To: **DALMIA CEMENT (BHARAT) LIMITED**
Village: Thangskai, Lumshnong, Meghalaya

PROCESS FUGITIVE EMISSION TEST RESULTS

Sl. No.	Locations	Date of Sampling	Results for SPM ($\mu\text{g}/\text{m}^3$)	Limits ($\mu\text{g}/\text{m}^3$)
01	Fly-ash Storage Section	23.08.2023	2035	5000
02	Coal Storage Section	23.08.2023	841	2000
03	Limestone Storage Section	23.08.2023	1051	5000
04	Cement Packing Section	23.08.2023	2426	5000

Analysis Protocol: IS 5182



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Report No.: ENV/DCBL/23-24/FE-09/01
Date : 29/09/2023

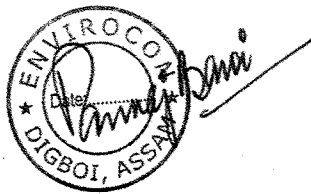
Order No.: 4551000128/311
Date : 09/06/2023

Report Issued To : **DALMIA CEMENT (BHARAT) LIMITED**
Village: Thangskai, Lumshnong, Meghalaya

PROCESS FUGITIVE EMISSION TEST RESULTS

Sl. No.	Locations	Date of Sampling	Results for SPM ($\mu\text{g}/\text{m}^3$)	Limits ($\mu\text{g}/\text{m}^3$)
01	Fly-ash Storage Section	02.09.2023	2042	5000
02	Coal Storage Section	02.09.2023	843	2000
03	Limestone Storage Section	02.09.2023	1056	5000
04	Cement Packing Section	02.09.2023	2432	5000

Analysis Protocol: IS 5182



Checked By: Mr. Pankaj Baroi, **ENVIROCON**

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Annexure – V



Dalmia Cement Bharat Ltd. Thangskai

Plantation Details						
Sr. No.	Plantation Date	Type of Species	Nos. of Plant	Place of Plantation	Remark/S ervation	Total Survival plant
1	06.03.2007	Pulm	70	Admin Office	88%	132
		Rose	10			
		Chandra mukhi	50			
		Chata tree	20			
Total			150			
2	10.04.2007	Daldara	80	Near CEO Office	84%	87
		Banana	20			
		Papol	3			
Total			103			
3	18.04.2007	Pulm	5	Near Hospital	90%	27
		Dalayla	20			
		Daldara	5			
Total			30			
4	27.04.2007	Pulm	18	Near G.M. Block	90%	51
		Daldara	22			
		rose	11			
		chata tree	5			
Total			56			
5	07.03.2008	Koctash	100	Near Admin office	95%	152
		chata tree	20			
		Rose	10			
		Daldara	30			
Total			160			
6	09.09.2008	Orkeet	25	Near G.M. Block	90%	32
		Taro tree	10			
Total			35			
7	15.09.2008	Daliya	100	Near Admin office	90%	360
		Pitanya	102			
		Cooks com	200			
Total			402			
8	20.09.2008	Plum	5	Near Admin office	90%	9
		Rose	5			
Total			10			
9	07.03.2009	Papol	3	Near CEO house	90%	12
		Koctash	5			
		Banana	6			
Total			14			
10	09.04.2009	Tajpata	10	Near Sr.block	70%	25
		rose	5			
Total			35			

11	18.06.2009	chata tree	10	Near Sr.block	88%	18
		Pitariya	10			
Total			20			
12	20.7.2009	Dalaya	50	Near Hospital	90%	50
		Guava	2			
		Orange	3			
Total			55			
13	09.03.2010	Alogara	10	Near CEO house	65%	208
		Nut	300			
		Cane suger	10			
Total			320			
14	15.03.2010	Taro	2	Near CEO house	90%	56
		Daliya	50			
		Dhaou tea	10			
Total			62			
15	20.11.2010	Neem	5	Admin Office	90%	40
		Alogara	30			
		small plum	10			
Total			45			
16	23.11.2010	Patanya	10	Near G.M. Block	90%	49
		Kanaya	25			
		Koctash	20			
Total			55			
17	03.03.2011	Neem	100	A.C.L work Shop	95%	475
		Tajpata	100			
		Champa	200			
		Gold mohar	100			
Total			500			
18	05.04.2011	Cook com	100	C.C.R	95%	95
19	07.05.2011	Neem	25	Near Civil Office	90%	112
		Alobara	100			
Total			125			
20	11.05.2011	Ghamari	100	CPP to Crusher	70%	211
		Champa	102			
		Gold mohar	100			
Total			302			
21	27.06.2011	Champa	60	Pump House to CCR (Road Side)	85%	51
Total			60			
22	06.07.2011	Cook com	100	Mechanical Work Shop	70%	112
		Daliya	50			
		Rage	10			
Total			160			

23	15.07.2011	Neem	20	Mechanical Work Shop	75%	34
		Alobara	25			
Total			45			
24	27.07.2011	Chandra mukhi	50	Mech. Work Shop	70%	35
		Total				
25	05.10.2011	Daliya	100	Admin Office	85%	94
		Alobara	10	CEO House		
Total			110			
26	15.11.2011	Rose	10	Store	65%	39
		Cooks com	50	Raw mill section		
Total			60			
27	10.12.2011	Chandra mukhi	50	Mechanical Work Shop	80%	56
		Kanaya	20			
Total			70			
28	18.12.2011	Pituniya	50	Raw mill section	90%	99
		Ganda	60			
Total			110			
29	30.12.2011	Champa	65	Mechanical Work Shop	80%	58
		Rose	7			
Total			72			
30	05.02.2012	Daliya	50	Admin Office	70%	70
		Selbiya	50			
Total			100			
31	07.03.2012	Cooks com	20	CEO House	90%	54
		Selbiya	30			
		Alobara	10			
Total			60			
32	15.04.2012	Daliya	30	CEO House	70%	49
		Mani plant	40	C.C.R		
Total			70			
33	20.04.2012	Chille flower	2	ACL Mandir	90%	1
		Total				
34	22.04.2012	Orange	2	Near Blue House	85%	6
		Neem	2			
		Pearya	2			
		Mango Tree	1			
Total			7			
35	05.06.2012	Mango Tree	200	Hospital	90%	900
		Neem	200	Pump House		
		Ghamari	200	Raw mill section		
		Hartki	200	Mech. Work Shop		
		Champa	200	CCR (Nearest)		
Total			1000			
36	20.06.2012	Payan Tree	2	G.M.Block	90%	9
		Total				

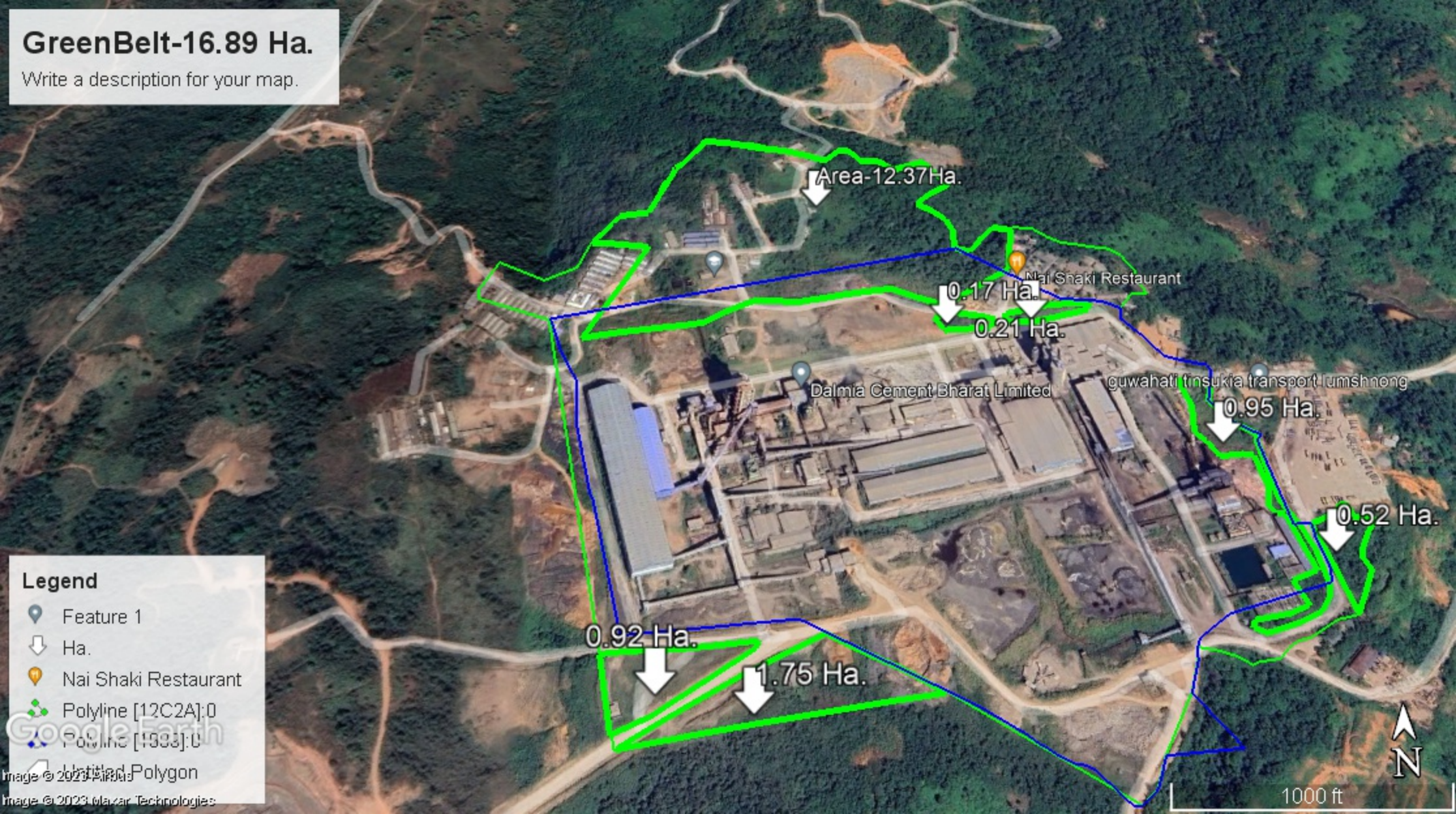
37	03.07.2012	Ashoka Tree	150	Packing Plant to Raw Mill	90%	180
		Chata Flower	5	Mech. Work Shop		
Total			200			
38	05.07.2012	Ashoka Tree	50	Power Plant	90%	56
		Ashoka Tree	12	Mechanical		
Total			62			
39	07.07.2012	Champa	50	Vehicle	85%	173
		Ghamari	50	Vehicle		
		Neem	50	Vehicle		
		hortki	50	Vehicle		
		Ashoka Tree	4	Store		
Total			204			
40	09.07.2012	Mango Tree	20	Mech. Work shop	90%	54
		Champa	20			
		hortki	20			
Total			60			
41	03.08.2012	Ashoka Tree	50	Raw mill section	90%	53
		Chinese pump	2	Director Block		
		Definbikia	4	C.C.R		
		Fellendonda	2	C.C.R		
		Larlamazme	1	C.C.R		
Total			59			
42	05.08.2012	Chata Tree	1	A.C.L Mandir	90%	49
Total			1			
	11.12.12	Chata Tree	50	Thangskai	80%	40
Total			50			
43	23.12.12	Chatra Tree	200	Near Director Block	90%	180
Total			200			
44	02.02.13	Local Species	600	Near Gausala	95%	570
Total			600			
45	06.06.13	Local Species	500	Near Labour colony	80%	400
46	12.08.13	Local Species	300	Behind Stacker Reclaim	90%	270
47	10.10.13	Local Species	500	Behind Stacker Reclaim	90%	450
48	11.12.13	Local Species	400	Near Magzine House	85%	340
49	21.02.14	Local Species	800	Near Magzine House	90%	720
50	23.03.14	Local Species	400	Near Magzine House	95%	380
51	22.04.14	Types of Local Spe	300	Near LS Crusher	90%	270

52	10.5.14	21 types of local species	180	cement Mill area, compressor house	90%	162
Total			180			
53	14.6.14	17 types of local species	120	coal unloading and storage area	89%	107
Total			120			
54	23.01.15	10 types of local species	120	CCR, cement mill area, compressor house, MCC	88%	105
Total			120			
55	27.4.15	8 types of local species	144	cement Mill area	84%	121
Total			144			
56	10.5.15	10 types of local species	146	Near labour colony	82%	120
Total			146			
57	22.7.15	8 types of local species	40	Near Engineer block	75%	30
Total			40			
58	21.8.15	Sal Tree	35	Near Gou Sala	69%	24
Total			35			
59	20.10.15	12 types of local species	81	Near CPP	80%	65
Total			81			
60	22.12.15	10 types of local species	55	Near Security office	73%	40
Total			55			
61	2.2.16	8 types of local species	31	Near Dispatch Office	58%	18
Total			31			
62	20.6.16	17 types of local species	69	Near Primary crusher	62%	43
Total			69			
63	16.07.2016	30 types of different local species	25000	Front of CCR & OHS	90%	3700
Total			25000			
64	14.09.2016	Ashoka Tree	100	Front of CCR	90%	90
Total			100			
65	12.12.2016	Orange Tree	80	Front of Packing Plant	60%	48
Total			80			
66	05.03.2017	Mango Tree	120	Front of Store	80%	120
Total			120			
67	8.8.2017	Near CCR	100	Guava	90%	90
Total			100			
68	22.12.2017	Near Cement Mill	80	Orange	90%	72
Total			80			

69	5.5.2018	Near Store Yeard	100	Local Species	90%	90
70	8.12.2018	Near Logistics offi	120	Local Species	90%	108
71	2.2.2019	Near CCR	80	Jack fruit	50%	40
72	12.8.2019	Near Dispatch Offi	100	Local Species	80%	72
73	7.12.2019	Near CPP	50	Different Local Specie	90%	45
74	2.2.2020	Near OHS	120	Different Local Specie	80%	96
75	22.12.2020	Near Raw Mill	300	Different Local Specie	90%	270
76	11.5.2021	Near Near CPP Sta	80	Different Local Specie	90%	72
77	12.10.2021	Near Cow Shade	100	Different Local Specie	95%	95
78	2.3.2022	Near Sequirity Car	120	Different local specie	90%	108
79	5.6.2022	Plant Approach ro	100	Different Local Specie	80%	80
80	26.5.2023	Near Colony Appro	500	Different Local Specie	90%	450
81	28.5.2023	Front of CCR	200	Different Local Specie	90%	180
82	01.6.2023	Near Colony Appro	500	Different Local Specie	90%	450

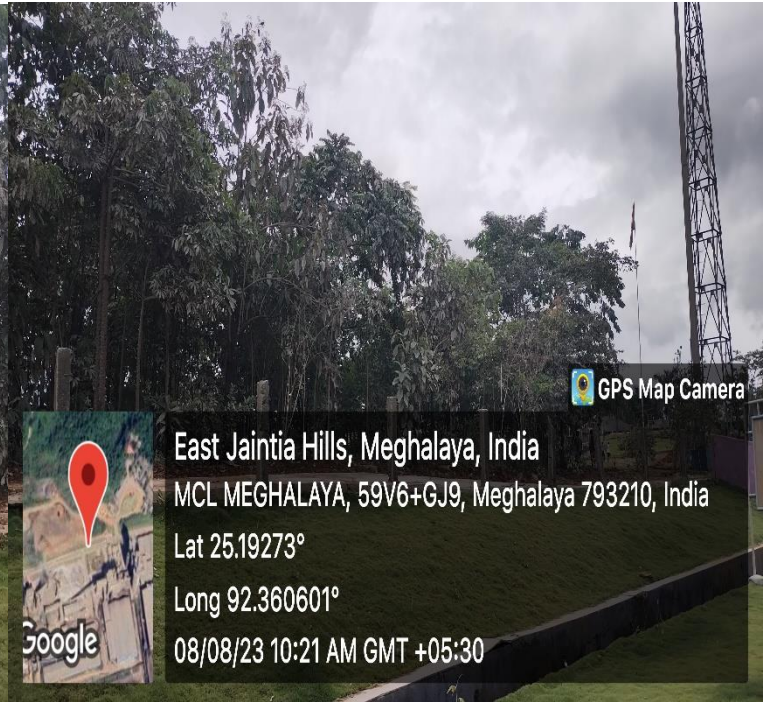
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Write a description for your map.




Legend

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- Ha.
- Nai Shaki Restaurant
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- Polyline [1933]:0
- Untitled Polygon





GPS Map Camera

 Lumshnong, Meghalaya, India
 59R7+PJM, Lumshnong, Meghalaya 793210, India
 Lat 25.192204°
 Long 92.362863°
 08/08/23 10:24 AM GMT +05:30

Google




GPS Map Camera

 Lumshnong, Meghalaya, India
 59R7+925, Lumshnong, Meghalaya 793210, India
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 Long 92.362939°
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 Long 92.363338°
 08/08/23 10:27 AM GMT +05:30

Google



GPS Map Camera

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 Long 92.363916°
 08/08/23 10:27 AM GMT +05:30

Google

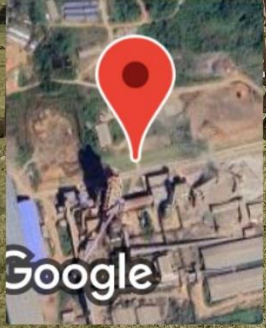
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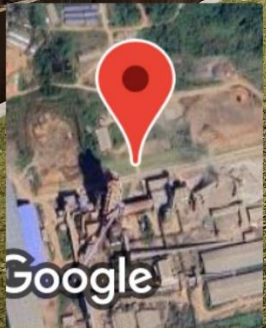
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Unnamed Road, Meghalaya 793210, India
Lat 25.192375°
Long 92.358247°
08/08/23 10:55 AM GMT +05:30



 GPS Map Camera



East Jaintia Hills, Meghalaya, India
Unnamed Road, Meghalaya 793210, India
Lat 25.192375°
Long 92.358247°
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Report No.: ENV/DCBL/23-24/AA-04/01
Date : 09/05/2023

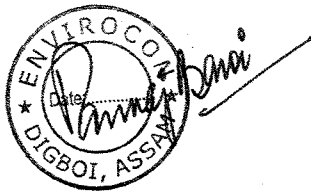
Order No.: 4552001130/311
Date : 02/05/2022

Report Issued To : **DALMIA CEMENT (BHARAT) LIMITED**
Village: Thangskai, Lumshnong, Meghalaya

AMBIENT AIR QUALITY TEST RESULTS

Sl. No.	LOCATION(S) ↓	Date of Sampling	PM 2.5 (µg/m ³)	PM 10 (µg/m ³)	SO ₂ (µg/m ³)	NO ₂ (µg/m ³)
	LIMIT(S) →	---	60	100	80	80
01	Near Cement Mill	16.04.2023	31.3	52.9	7.1	7.8
02	Near CPP	16.04.2023	29.6	50.3	7.6	8.3
03	Near CCR	16.04.2023	28.6	46.7	<5.0	<6.0
04	Vrindavan Colony	16.04.2023	23.2	41.3	<5.0	<6.0

Analysis Protocol: IS 5182



Checked By: Mr. Pankaj Baroi, ENVIROCON

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Associate Services: Certification by Competent Person (CIF), NDT, Hydraulic Testing, Chartered Engineer Services etc.

Report No.: ENV/DCBL/23-24/AA-05/01
Date : 09/06/2023

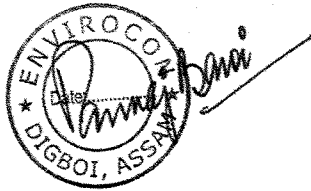
Order No.: 4552001130/311
Date : 02/05/2022

Report Issued To: **DALMIA CEMENT (BHARAT) LIMITED**
Village: Thangskai, Lumshnong, Meghalaya

AMBIENT AIR QUALITY TEST RESULTS

Sl. No.	LOCATION(S) ↓	Date of Sampling	PM 2.5 (µg/m³)	PM 10 (µg/m³)	SO ₂ (µg/m³)	NO ₂ (µg/m³)
	LIMIT(S) →	—	60	100	80	80
01	Near Cement Mill	21.05.2023	32.4	54.6	7.3	8.1
02	Near CPP	21.05.2023	30.5	51.8	7.9	8.6
03	Near CCR	21.05.2023	27.3	48.4	<5.0	<6.0
04	Vrindavan Colony	21.05.2023	24.9	43.7	<5.0	<6.0

Analysis Protocol: IS 5182



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Report No.: ENV/DCBL/23-24/AA-06/01
Date : 06/07/2023

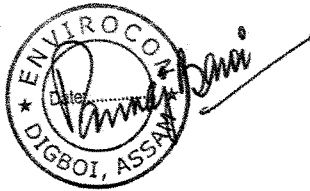
Order No.: 4551000128/311
Date : 09/06/2023

Report Issued To: **DALMIA CEMENT (BHARAT) LIMITED**
Village: Thangskai, Lumshnong, Meghalaya

AMBIENT AIR QUALITY TEST RESULTS

Sl. No.	LOCATION(S) ↓	Date of Sampling	PM 2.5 (µg/m ³)	PM 10 (µg/m ³)	SO ₂ (µg/m ³)	NO ₂ (µg/m ³)
	LIMIT(S) →	---	60	100	80	80
01	Near Cement Mill	26.06.2023	31.7	51.5	7.6	8.8
02	Near CPP	26.06.2023	29.4	49.6	7.9	8.3
03	Near CCR	26.06.2023	26.3	47.4	<5.0	<6.0
04	Vrindavan Colony	26.06.2023	22.5	42.6	<5.0	<6.0

Analysis Protocol: IS 5182



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Report No.: ENV/DCBL/23-24/AA-07/01
Date : 02/08/2023

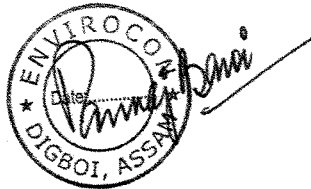
Order No.: 4551000128/311
Date : 09/06/2023

Report Issued To : **DALMIA CEMENT (BHARAT) LIMITED**
Village: Thangskai, Lumshnong, Meghalaya

AMBIENT AIR QUALITY TEST RESULTS

Sl. No.	LOCATION(S) ↓	Date of Sampling	PM 2.5 (µg/m ³)	PM 10 (µg/m ³)	SO ₂ (µg/m ³)	NO ₂ (µg/m ³)
	LIMIT(S) →	---	60	100	80	80
01	Near Cement Mill	14.07.2023	33.8	55.7	7.2	8.5
02	Near CPP	14.07.2023	31.6	52.4	7.5	8.1
03	Near CCR	14.07.2023	29.4	53.9	<5.0	<6.0
04	Vrindavan Colony	14.07.2023	24.6	44.1	<5.0	<6.0

Analysis Protocol: IS 5182



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Report No.: ENV/DCBL/23-24/AA-08/01
Date : 08/09/2023

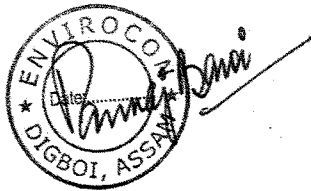
Order No.: 4551000128/311
Date : 09/06/2023

Report Issued To: **DALMIA CEMENT (BHARAT) LIMITED**
Village: Thangskai, Lumshnong, Meghalaya

AMBIENT AIR QUALITY TEST RESULTS

Sl. No.	LOCATION(S) ↓	Date of Sampling	PM 2.5 (µg/m ³)	PM 10 (µg/m ³)	SO ₂ (µg/m ³)	NO ₂ (µg/m ³)
	LIMIT(S) →	—	60	100	80	80
01	Near Cement Mill	23.08.2023	31.2	48.7	7.1	7.9
02	Near CPP	23.08.2023	28.7	45.1	7.4	8.2
03	Near CCR	23.08.2023	30.5	50.9	<5.0	<6.0
04	Vrindavan Colony	23.08.2023	21.4	40.8	<5.0	<6.0

Analysis Protocol: IS 5182



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Report No.: ENV/DCBL/23-24/AA-09/01
Date : 29/09/2023

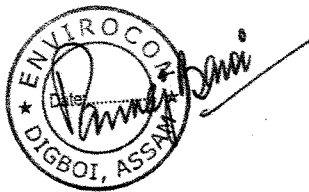
Order No.: 4551000128/311
Date : 09/06/2023

Report Issued To : **DALMIA CEMENT (BHARAT) LIMITED**
Village: Thangskai, Lumshnong, Meghalaya

AMBIENT AIR QUALITY TEST RESULTS

Sl. No.	LOCATION(S) ↓	Date of Sampling	PM 2.5 (µg/m ³)	PM 10 (µg/m ³)	SO ₂ (µg/m ³)	NO ₂ (µg/m ³)
	LIMIT(S) →	--	60	100	80	80
01	Near Cement Mill	02.09.2023	32.5	50.7	7.3	8.1
02	Near CPP	02.09.2023	29.7	48.2	7.6	8.5
03	Near CCR	02.09.2023	31.5	51.6	<5.0	<6.0
04	Vrindavan Colony	02.09.2023	23.8	42.4	<5.0	<6.0

Analysis Protocol: IS 5182



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Name of the Industry: Dalmia Cement (Bharat) Limited
Monitoring Location: DCBL - Plant
Date of Monitoring: 12.07.23 to 13.07.23
Report No.: ENV/DCBL/23-24/AA-07/04

Date: 22.7.2023

AMBIENT AIR QUALITY SURVEY REPORT

Pollutants	Locations & Analysis Results				Permissible Limits (in $\mu\text{g}/\text{m}^3$)
	Near Cement Mill	Near CPP	Near CCR	Vrindavan Colony	
Particulate Matter size less than 10μ (PM 10)	66.2	62.8	61.4	52.1	100*
Particulate Matter size less than 2.5μ (PM 2.5)	22.4	21.7	22.2	20.2	60*
Sulfur dioxide (SO ₂)	7.0	6.4	7.4	7.3	80*
Oxides of Nitrogen (NO _x)	8.4	8.4	8.4	6.2	80*
Carbon Monoxide (CO)	ND	ND	ND	ND	4**
Ammonia (NH ₃)	ND	ND	ND	ND	400
Ozone (O ₃)	ND	ND	ND	ND	180
Lead (Pb)	ND	ND	ND	ND	1.0
Benzene (C ₆ H ₆)	ND	ND	ND	ND	5
Benzo (a) Pyrene (BaP)	ND	ND	ND	ND	01
Arsenic (As)	ND	ND	ND	ND	06
Nickel (Ni)	ND	ND	ND	ND	20

Remarks: The parameters analyzed were found to be within the permissible limits of National Ambient Air Quality Standards.



Pankaj Baroi, For ENVIROCON

Report No.: ENV/DCBL/23-24/N-04/01

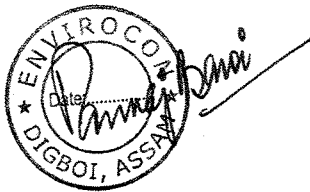
Order No.: 4552001130/311

Date : 09/05/2023

Date : 02/05/2022

 Report Issued To: **DALMIA CEMENT (BHARAT) LIMITED**
 Village: Thangskai, Lumshnong, Meghalaya
NOISE LEVEL MEASUREMENT RESULTS

Sl. No.	Location(s)	Date Of Measurement	Day time		Night Time	
			Leq (dB-A)	Limit (dB-A)	Leq (dB-A)	Limit (dB-A)
1	Near Admin Office	16.04.2023	65.3	75	56.3	70
2	Near Worker Colony	16.04.2023	51.8	55	41.6	45
3	Near Staff Colony	16.04.2023	47.4	55	40.5	45



Checked By: Mr. Pankaj Baroi, ENVIROCON

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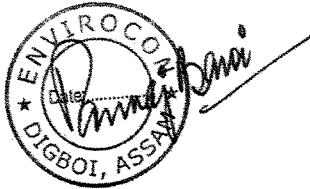
Report No.: ENV/DCBL/23-24/N-05/01
Date : 09/06/2023

Order No.: 4552001130/311
Date : 02/05/2022

Report Issued To: **DALMIA CEMENT (BHARAT) LIMITED**
Village: Thangskai, Lumshnong, Meghalaya

NOISE LEVEL MEASUREMENT RESULTS

Sl. No.	Location(s)	Date Of Measurement	Day time		Night Time	
			Leq (dB-A)	Limit (dB-A)	Leq (dB-A)	Limit (dB-A)
1	Near Admin Office	21.05.2023	66.8	75	55.7	70
2	Near Worker Colony	21.05.2023	53.4	55	43.6	45
3	Near Staff Colony	21.05.2023	49.7	55	39.4	45



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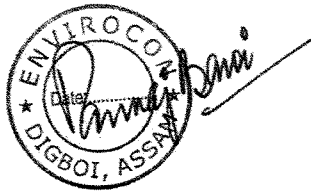
Report No.: ENV/DCBL/23-24/N-06/01
Date : 06/07/2023

Order No.: 4551000128/311
Date : 09/06/2023

Report Issued To: **DALMIA CEMENT (BHARAT) LIMITED**
Village: Thangskai, Lumshnong, Meghalaya

NOISE LEVEL MEASUREMENT RESULTS

Sl. No.	Location(s)	Date Of Measurement	Day time		Night Time	
			Leq (dB-A)	Limit (dB-A)	Leq (dB-A)	Limit (dB-A)
1	Near Admin Office	26.06.2023	67.2	75	54.8	70
2	Near Worker Colony	26.06.2023	51.6	55	44.3	45
3	Near Staff Colony	26.06.2023	50.7	55	40.1	45



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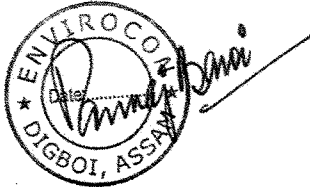
Report No.: ENV/DCBL/23-24/N-07/01
Date : 02/08/2023

Order No.: 4551000128/311
Date : 09/06/2023

Report Issued To : **DALMIA CEMENT (BHARAT) LIMITED**
Village: Thangskai, Lumshnong, Meghalaya

NOISE LEVEL MEASUREMENT RESULTS

Sl. No.	Location(s)	Date Of Measurement	Day time		Night Time	
			Leq (dB-A)	Limit (dB-A)	Leq (dB-A)	Limit (dB-A)
1	Near Admin Office	14.07.2023	68.9	75	56.3	70
2	Near Worker Colony	14.07.2023	52.4	55	41.3	45
3	Near Staff Colony	14.07.2023	51.7	55	39.4	45



Checked By: Mr. Pankaj Baroi, ENVIROCON

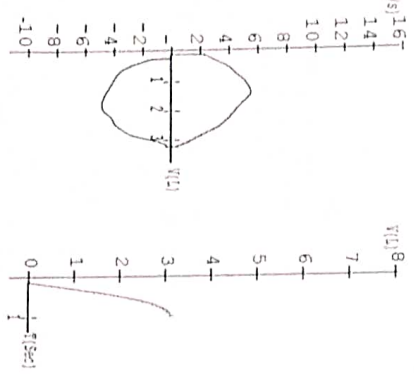
- NOTE:**
1. Results reported are valid at the time of and under the prevailing conditions of measurement.
 2. Results refer only to the particular parameters tested.
 3. This test report shall not be reproduced except in full, without the written permission of ENVIROCON, I.O.C.L (AOD) New Market, Digboi – 786171, Assam.

Core Services: Environmental Monitoring & Data Generation, EIA & EMP, Environmental Audit & Allied Environmental Management jobs
Associate Services: Certification by Competent Person (CIF), NDT, Hydraulic Testing, Chartered Engineer Services etc.

Ignish Hono
Patient Information

ID : 21
Name : I
Age : 34 years
Sex : Male
Height : 61 Kg
Height : 161 cm
Smoker : No
Date : ~~19/07/23~~
19/07/23
RMS-HELIOS 702
Ver 1.3.0

FVC TEST (PRE)



Parameters	Pred	Pre	%Pred	Parameters	Pred	Pre	%Pred
FVC	3.09	3.13	101	FEF .2-1.2	6.84	5.44	79
Fev 1	2.60	3.13	120	FEF 25	7.68	5.48	71
Fev1/FVC(%)	84.13	100.01	118	FEF 50	5.57	5.02	90
FEF25-75	4.04	4.76	117	FEF 75	2.84	3.50	123
FEFR	8.42	5.55	65	Fev.5/FVC	---	78.36	---
FIVC	---	3.06	---	Fev3/FVC	97.01	100.01	103
Fev .5	---	2.45	---	FVC Time	---	1.00	---
Fev3	2.99	3.13	104	Exp Time	---	0.23	---
P1FR	---	4.84	---	Lung Age	34	27	---
FEF 75-85	---	2.88	---				

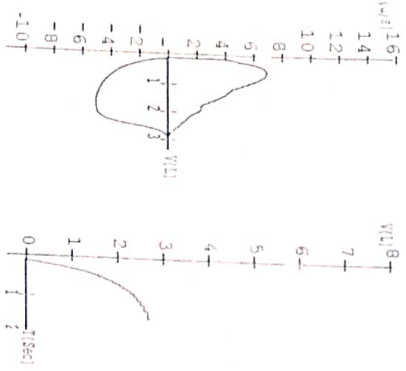
Recorders & Medicare Systems Pvt.Ltd. 0172-2658701-05 URL:www.rmsindia.com
 Interpretation Set:
 Indian Pred. Eqns.
 Sign :
 DR. DR. K R SARMAH

INTERPRETATION
 Within Normal Limits
 %FEV1/FVC>95 & %FVC>80
C.O.P.D. Severity
 Test within normal limits

Hardwar Chakraborty

Patient Information
 ID : 20
 Name : H
 Age : 46 years
 Sex : Male
 Weight : 60 Kg
 Height : 152 cm
 Smoker : No
 Date : ~~19/06/11~~
 19/6/23
 RMS-HELIX 702
 Ver 1.3.0

FVC TEST (PRE)



Parameters	Pred	Pre	%Pred	Parameters	Pred	Pre	%Pred
FVC	2.47	2.75	111	FEF 2-1.2	5.56	5.65	101
Fev 1	1.98	2.51	126	FEF 25	7.13	6.39	89
Fev1/FVC(%)	80.39	91.18	113	FEF 50	4.97	3.64	73
FEF 5-75	3.33	3.09	92	FEF 75	2.23	1.42	63
FEFR	7.36	6.64	94	FEV.5/FVC	---	72.29	---
TIVC	---	2.76	---	FEV3/FVC	97.01	100.01	103
Fev .5	---	1.99	---	FVC Time	---	2.03	---
Fev3	2.39	2.75	114	Exp Time	---	0.04	---
PIFR	---	5.00	---	Lung Age	46	33	---
FEF 75-85	---	1.21	---				

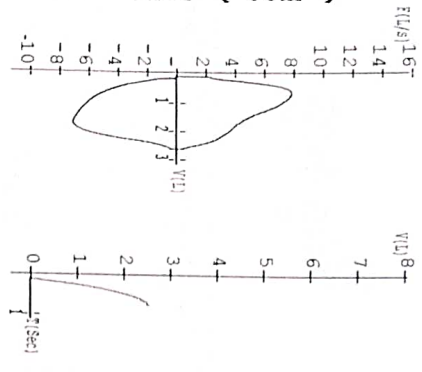
Recorders & Medicare Systems Pvt.Ltd. 0172-2658701-05 URL:www.rmsindia.com
 Interpretation Set:
 Indian Pred. Eqns.
 Sign :.....
 Dr.DR K R SARMAH

RMS-HELIOS 702
Ver 1.3.0

Patient Information
Name : Hemantha Sriniva
ID : 22

Name : H
Age : 22 years
Sex : Male
Weight : 47 Kg
Height : 153 cm
Smoker : Yes
Date : 23/08/95
20/07/23

FVC TEST (PRE)



Parameters	Pred	Pre	%Pred
FVC	2.85	2.56	89
Fev 1	2.53	2.56	101
Fev1/FVC(%)	88.58	100.01	112
FEF25-75	4.43	5.20	117
DEFR	8.27	7.95	96
FIVC	---	2.53	---
Fev .5	---	2.37	---
Fev3	2.77	2.56	92
FIFR	---	7.08	---
FEF 75-85	---	3.03	---

Parameters	Pred	Pre	%Pred
FEF .2-1.2	7.25	7.16	98
FEF 25	7.64	7.77	101
FEF 50	5.72	5.38	94
FEF 75	3.22	3.54	109
Fev.5/FVC	---	92.66	---
Fev3/FVC	97.01	100.01	103
FVC Time	---	0.76	---
Exp Time	---	0.06	---
Lung Age	22	21	---

INTERPRETATION

Within Normal Limits
%FEV1/FVC>95 & %FVC>80

C.O.P.D. Severity

Test within normal limits

Recorders & Medicare Systems Pvt.Ltd. 0172-2658701-05 URL:www.rmsindia.com

Interpretation Set:
Indian Pred. Eqns.
Sign :
Dr. DR K R SARMAH

DALMIA CEMENT (BHARAT) LTD, MEGHALAYA				
Medical Laboratory Report, OHC				
Name: Ignesh Horo		Report Date.28.05.2023		
Age: 34Yrs		Sample collection Date.28.05.2023		
Gender: Male		Lab Report No.: 113		
Sl. No.	Test Name	Results	Unit	Normal Range
	Blood			
1	Blood glucose (Fasting)	96	mg/dL	70-110
2	Blood glucose (P.P)	118	mg/dL	Upto 150
	Others			
1	Urine RE			
2	AFB Smear	✓ No AFB seen		

End of Report.

DALMIA CEMENT (BHARAT) LTD, MEGHALAYA

Medical Laboratory Report, OHC

Name: Haridwar Chauhan

Report Date: 28.05.2023

Age: 46Yrs

Sample collection Date: 28.05.2023

Gender: Male

Lab Report No.: 112

Sl. No.	Test Name	Results	Unit	Normal Range
	Blood			
1	Blood glucose (Fasting)	96	mg/dL	70-110
2	Blood glucose (P.P)	118	mg/dL	Upto 150
	Others			
1	Urine RE			
2	AFB Smear	✓ No AFB seen		

: End of Report:



DALMIA CEMENT (BHARAT) LTD, MEGHALAYA**Medical Laboratory Report, OHC**

Name: Hemanta Sinha

Report Date.28.05.2023

Age: 22Yrs

Sample collection Date.28.05.2023

Gender: Male

Lab Report No.: 111

Sl. No.	Test Name	Results	Unit	Normal Range
	Blood			
1	Blood glucose (Fasting)	90	mg/dL	70-110
2	Blood glucose (P.P)	115	mg/dL	Upto 150
	Others			
1	Urine RE			
2	AFB Smear	✓ No AFB seen		

End of Report.



DALMIA CEMENT BHARAT LIMITED, MGH

HOUSE-KEEPING ACTIVITIES SCHEDULE

Sl.no	PHOTO	
	BEFORE	AFTER
1		
2		
3		
4		

5



6



7



8



9



10



11



Particular	Amount
NOC for Cement	293,152
Pollution Control	304,636
Legal Metrology	5,000
EPR Registration	50,024
Environment Monitoring	3,076,038
Material	605,939
Grand Total	4,334,788