

cement! sugar! refractories! power!

29th May 2024

DCBL/ENV/2024-25/01

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 October 2023 to March 2024 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.

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

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

orized Signatory

Enclosure: Compliance report for the period October 2023 to March 2024.

1) The Member Secretary, Meghalaya State Pollution Control Board, "Arden" Lumpyngad, Shillong-793 014, Meghalaya.

7) The Regional Director, Central Pollution Control Board, North Eastern Zonal Office, BSNL Complex, (CTO), Lachumiere, Shillong -793 001, Meghalaya.

Bharat) Limited

Dálmia Cemais Bhárat) Limited Umsoo Mootang, Vill - Thangskai, PÓ Lunisthon District - East Jaintia Hills, 793210 (Meghalaya) India T 91 9612901824/9612895625 Toll free: 1800 2020 W: www.dalmiacement.com CIN: U65191TN1996PLC035963 Registered Office : Dalmiapuram, District - Tiruchirapalli, Tamil Nadu - 621 651, India ADalmia 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 : October 2023 to March 2024

	Conditions	Compliance Status	
A	Specific Conditions		
(i) (ii)	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. Secondary fugitive emissions shall be controlled within the prescribed limits & regularly monitored Guidelings (Code of	 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. Measures have been undertaken to reduce fugitive emissions like all conveyor belts for raw material 	
	regularly monitored. Guidelines/ Code of Practice issued by CPCB / MSPCB in this regard shall be followed.	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.	



Half Yearly Compliance report: October 2023 to March 2024
Also, all the plant approach road and internal roads

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 **Annexure – IV.**

Regular Fugitive emission monitoring is being undertaken and emissions level are within the prescribed limits. Latest Fugitive emission monitoring report is attached as **Annexure – V.**

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 **Annexure - VI.**

- (iii) 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.
- (iv) Effort shall be made to reduce impact of transport of the raw material and end product on the surrounding environment including agriculture land.
- 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.
- Raw materials are transported through covered trucks and there is no impact on surrounding environment.



U	General Conditions	
(xi)	All the recommendations of the Corporate Responsibility for Environment Protection (CREP) shall be strictly followed. General Conditions	 Complied All CREP conditions for the Cement plants and Power plants are being implemented and strictly followed.
(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	 Greenbelt has been developed within the plant and outside boundary which includes about 15,800 nos. of sapling over an area of 16.90 Ha (~34%). Details of Plantation done so far is enclosed as <u>Annexure - VII.</u> Google image of the Green belt is enclosed as <u>Annexure-VIII</u>. Photographs of some greenbelt / plantation area attached as <u>Annexure - IX</u>. Gap Plantation will be undertaken in those areas in coming years.
(ix)	An effort shall be made to use of high calorific hazardous waste in the cement kiln and necessary provisions shall be made accordingly.	 Complied and being Complied The kiln has been designed to use high calorific hazardous wastes.
(viii)	control equipment shall be recycled back into the process and reutilized. Fly ash shall be utilized as per Fly ash notification,1999 subsequently amended in 2003	 recycled into the process and re utilized. Total Fly ash generated from the CPP is utilized in existing cement manufacturing.
(vi)	Prior permission for the drawl of 2500 m3/day from Lunar River shall be obtained from the concern department The dust collected from the pollution control equipment shall be regulated back.	 Obtained No objection certificate (NOC) from Irrigation Department Jowai, Jaintia hills for 5500 m³/day for Cement and Power plant dated 11th July 2007. The dusts from bag house and bag filters is
(v)	shall not exceed 2500 m3/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.	 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



Half Yearly Compliance report: October 2023 to March 2024

(i)	The project authority must adhere to the stipulations made by Meghalaya State Pollution Control Board and State Government	 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	 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, SO2 and NOx 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. We have established four (4) ambigurality monitoring stations as su Meghalaya State Pollution Control Data on ambient air quality and are submitted to MSPCB on regional officis being submitted. Latest Ambie Monitoring & Stack Emission report enclosed in Annexure respectively. We have also carried out Monitor parameters of Ambient Air Quality Monitori attached as Annexure – XI. We a 	
(iv)	Industrial waste water shall be properly collected and treated so as to confirm to the standards prescribed under GSR 422(E) dated 19th May 1993 and 31st December1993 or as amended from time to time .The treated waste water shall be utilized for plantation purpose.	 same will be continued in future compliances 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 & greace to.
(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).	 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.
4	Proper Housekeeping & adequate	 We maintained good housekeeping in all areas



	H:	alf Yearly Compliance report: October 2023 to March 2024
	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.	 of plant. Pphotographs of some area - before and after Housekeeping are attached as Annexure-XIII. 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)	The company shall harvest the rainwater from the rooftops and storm water drains to recharge the ground water.	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.
		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.
		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.
		Considering the above, It is kindly requested to exempt us from the said condition of recharging groundwater by rainwater harvesting.
(viii)	The company shall undertake eco- development measures including community welfare measures in the project area.	Complied. Undertaking various community welfare measures through CSR activities like. 1. Construction of footbridge cum culvert 2. Promotion of fuel efficient cook stoves and solar study lamps.



(ix)		alf Yearly Compliance report: October 2023 to March 2024 3. Medical camps, construction of schools toilets and awareness camps 4. Awareness generation campaign. Livelihood and Skill Training. etc. Report of the same is submitted to your good vide letter dated 8-10-2023. Yes, we are complying with EIA/EMP.
	measures and safeguards recommended in the 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 cchairmanship 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	This has been already sent to your office vide our letter dated 06/07/2011. The funds so provided will not be diverted for any
	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.	other purpose. The details recurring expenditure towards environmental protection during April, 2023 to September 2023 is enclosed as Annexure – XV .
(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.	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. The date of commissioning of various units is given as below: CEMENT PLANT : August 2010



	Ha	alf Yearly Compliance report: October 2023 to March 2024
		CAPTIVE POWER PLANT(CPP) : February
		2010
(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.	

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

Authorized Signatory

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

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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

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Report No.: ENV/DCBL/23-24/SE-10/01

Date

: 04/11/2023

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.	ı	DCBL/2023/SE-10/01		
02	Date of Sampling		09.10.2023		
03	Material of Construction	0.000	M. S.		
04	Stack Attached To	8 1-1	R. A. B. H.		
05	Stack Diameter (Meter)	900	3.0		
06	Flue Gas Temperature (°C)	162			
07	Exit Velocity of Gas (m/sec)	21.4			
08	Flow Rate (Nm³/hr)	373106			
09	Type of Fuel Used		Kiln Coal	48	
	Analy	sis Results of Flue Gas			
Sl. No.	Parameter(s)	Result(s)	Unit(s)	Limit(s)	
i.	Particulate Matter	23	mg/Nm³	30	
ii.	Sulphur Dioxide (as SO ₂)	667	mg/Nm³	1000	
iii.	Oxides of Nitrogen (as NO _x)	483	mg/Nm³	800	



Checked By: Mr. Pankaj Baroi, ENVIROCON

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Report No.: ENV/DCBL/23-24/SE-10/02

Date : 04/11/2023

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.	Ĺ	DCBL/2023/SE-10/02		
02	Date of Sampling		09.10.2023		
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)	12.4			
08	Flow Rate (Nm³/hr)		50237		
09	Type of Fuel Used		NA*		
	Analy	sis Results of Flue Gas			
Sl. No.	Parameter(s)	Result(s)	Unit(s)	Limit(s)	
i.	Particulate Matter `	16	mg/Nm³	30	
ii.	Sulphur Dioxide (as SO ₂)	462	mg/Nm³	1000	
iii.	Oxides of Nitrogen (as NO _x)	153	mg/Nm³	800	

^{*}NA: Not Applicable



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Report No.: ENV/DCBL/23-24/SE-10/03

Date : 04/11/2023

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-10/03			
02	Date of Sampling	09.10.2023			
03	Material of Construction	1001-2	M. S. Cooler E. S. P.		
04	Stack Attached To				
05	Stack Diameter (Meter)	4.0			
06	Flue Gas Temperature (°C)	129			
07	Exit Velocity of Gas (m/sec)	8.9			
08	Flow Rate (Nm³/hr)	298503			
09	Type of Fuel Used		NA*	-	
	Analysi	s Results of Flue Gas			
Sl. No.	Parameter(s)	Result(s)	Unit(s)	Limit(s)	
i.	Particulate Matter	21	mg/Nm³	30	
ii.	Sulphur Dioxide (as SO ₂)	BDL#	mg/Nm³	1000	
iii.	Oxides of Nitrogen (as NO _x)	BDL#	mg/Nm³	800	

*NA: Not Applicable

#BDL: Below Detection Level



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Report No.: ENV/DCBL/23-24/SE-10/04

: 04/11/2023 Date

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

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

STACK EMISSION TEST RESULTS

01	Test Ref. No.	DCBL/2023/SE-10/04			
02	Date of Sampling		10.10.2023		
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)	67			
07	Exit Velocity of Gas (m/sec)	12.6			
08	Flow Rate (Nm³/hr)	124916			
09	Type of Fuel Used	NA*			
	Analys	sis Results of Flue Gas			
Sl. No.	Parameter(s)	Result(s)	Unit(s)	Limit(s)	
i.	Particulate Matter	17	mg/Nm³	30	
ii.	Sulphur Dioxide (as SO ₂)	BDL*	mg/Nm³	1000	
iii.	Oxides of Nitrogen (as NO _x)	BDL*	mg/Nm³	800	

^{*}NA: Not Applicable

^{*}BDL: Below Detection Level



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Report No.: ENV/DCBL/23-24/SE-10/05

Date : 04/11/2023

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-10/05			
02	Date of Sampling		10.10.2023		
03	Material of Construction		M. S.	100	
04	Stack Attached To		Cement Mill No. 2	¥	
05	Stack Diameter (Meter)		2.0		
06	Flue Gas Temperature (°C)	· (1) mia	64		
07	Exit Velocity of Gas (m/sec)		14.9		
08	Flow Rate (Nm³/hr)	11	149033		
09	Type of Fuel Used	NA*			
	Analy	sis Results of Flue Gas			
SI. No.	Parameter(s)	Result(s)	Unit(s)	Limit(s)	
i.	Particulate Matter	15	mg/Nm³	30	
ii,	Sulphur Dioxide (as SO ₂)	BDL*	mg/Nm³	1000	
iii.	Oxides of Nitrogen (as NO _x)	BDL*	mg/Nm³	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-10/06

Date

: 04/11/2023

Order No.: 4551000128/311

Date

: 09/06/2023

Report Issued To: D

DALMIA CEMENT (BHARAT) LIMITED

Village: Thangskai, Lumshnong, Meghalaya

STACK EMISSION TEST RESULTS

01	Test Ref. No.	DCBL/2023/SE-10/06				
02	Date of Sampling	10.10.2023				
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)	4.2				
08	Flow Rate (Nm³/hr)	5762				
09	Type of Fuel Used		Coal			
	Analys	sis Results of Flue Gas				
Sl. No.	Parameter(s)	Result(s)	Unit(s)	Limit(s)		
i.	Particulate Matter	11	mg/Nm³	30		
ii,	Sulphur Dioxide (as SO ₂)	BDL#	mg/Nm³	1000		
iii.	Oxides of Nitrogen (as NO _x)	BDL#	mg/Nm³	800		

#BDL: Below Detection Level



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ISO 9001:2015 Certified ISO 45001:2018 Certified

Report No.: ENV/DCBL/23-24/SE-11/01

Date : 07/12/2023 Order No.: 4551000128/311 :09/06/2023 Date

Report Issued To: **DALMIA CEMENT (BHARAT) LIMITED**

Village: Thangskai, Lumshnong, Meghalaya

STACK EMISSION TEST RESULTS

and the same of th					
01	Test Ref. No.	D	OCBL/2023/SE-11/0	1	
02	Date of Sampling	15.11.2023			
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)	174			
07	Exit Velocity of Gas (m/sec)	20.3			
08	Flow Rate (Nm³/hr)	344426			
09	Type of Fuel Used	9	Kiln Coal		
	Analysi	s Results of Flue Gas			
Sl. No.	Parameter(s)	Result(s)	Unit(s)	Limit(s)	
i.	Particulate Matter	19 mg/Nm³ 30			
ji,	Sulphur Dioxide (as SO ₂)	530 mg/Nm³ 1000			
iii.	Oxides of Nitrogen (as NO _x)	460	mg/Nm³	800	



Checked By: Mr. Pankaj Baroi, ENVIROCON

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ISO 9001:2015 Certified ISO 45001:2018 Certified

Report No.: ENV/DCBL/23-24/SE-11/02

: 07/12/2023

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

DALMIA CEMENT (BHARAT) LIMITED Report Issued To:

Village: Thangskai, Lumshnong, Meghalaya

STACK EMISSION TEST RESULTS

01	Test Ref. No.		DCBL/2023/SE-11,	/02		
02	Date of Sampling	15.11.2023				
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)	56				
07	Exit Velocity of Gas (m/sec)	11.9				
08	Flow Rate (Nm³/hr)	47625				
09	Type of Fuel Used		NA*			
	Analy	sis Results of Flue Gas				
Sl. No.	Parameter(s)	Result(s)	Unit(s)	Limit(s)		
i.	Particulate Matter	12	12 mg/Nm³ 30			
ii.	Sulphur Dioxide (as SO ₂)	567 mg/Nm ³ 10		1000		
iii.	Oxides of Nitrogen (as NO _x)	128	mg/Nm³	800		

*NA: Not Applicable



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Order No.: 4551000128/311

:09/06/2023

Report No.: ENV/DCBL/23-24/SE-11/03

Date : 07/12/2023

Report Issued To:

DALMIA CEMENT (BHARAT) LIMITED

Village: Thangskai, Lumshnong, Meghalaya

STACK EMISSION TEST RESULTS

01	Test Ref. No.		DCBL/2023/SE-11/03		
02	Date of Sampling	15.11.2023			
03	Material of Construction	707	M. S.		
04	Stack Attached To		Cooler E. S. P.		
05	Stack Diameter (Meter)	4.0			
06	Flue Gas Temperature (°C)	221			
07	Exit Velocity of Gas (m/sec)	12.8			
08	Flow Rate (Nm³/hr)	349356			
09	Type of Fuel Used		NA*		
	Analy	sis Results of Flue Gas			
Sl. No.	Parameter(s)	Result(s)	Unit(s)	Limit(s)	
i.	Particulate Matter	24	mg/Nm³	30	
ii.	Sulphur Dioxide (as SO ₂)	BDL#	mg/Nm³	1000	
iii.	Oxides of Nitrogen (as NO _x)	BDL#	mg/Nm³	800	

*NA: Not Applicable

***BDL**: Below Detection Level



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Report No.: ENV/DCBL/23-24/SE-11/04

Date : 07/12/2023

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.	Ó	CBL/2023/SE-11/04	1			
02	Date of Sampling	16.11.2023					
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)	14.7					
08	Flow Rate (Nm³/hr)	147470					
09	Type of Fuel Used		NA*				
	Analy	sis Results of Flue Gas					
Sl. No.	Parameter(s)	Result(s)	Unit(s)	Limit(s)			
j.	Particulate Matter	. 16 mg/Nm³ 30					
ii.	Sulphur Dioxide (as SO ₂)	BDL# mg/Nm³ 1000					
iii.	Oxides of Nitrogen (as NO _x)	BDL#	mg/Nm³	800			

*NA: Not Applicable

#BDL: Below Detection Level



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

Report Issued To:

DALMIA CEMENT (BHARAT) LIMITED

Village: Thangskai, Lumshnong, Meghalaya

STACK EMISSION TEST RESULTS

01	Test Ref. No.		DCBL/2023/SE-11/	05		
02	Date of Sampling	16.11.2023				
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)	71				
07	Exit Velocity of Gas (m/sec)	17.3				
08	Flow Rate (Nm³/hr)		169516			
09	Type of Fuel Used		NA*			
	Analy	ysis Results of Flue Gas				
Sl. No.	Parameter(s)	Result(s)	Unit(s)	Limit(s)		
i.	Particulate Matter	16 mg/Nm³ 30				
íi.	Sulphur Dioxide (as SO ₂)	BDL* mg/Nm³ 1000				
iii.	Oxides of Nitrogen (as NO _x)	BDL*	mg/Nm³	800		

*NA: Not Applicable

***BDL: Below Detection Level**



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

Report No.: ENV/DCBL/23-24/SE-11/06

Date : 07/

: 07/12/2023

Report Issued To:

DALMIA CEMENT (BHARAT) LIMITED

Village: Thangskai, Lumshnong, Meghalaya

STACK EMISSION TEST RESULTS

01	Test Ref. No.	DCBL/2023/SE-11/06				
02	Date of Sampling	16.11.2023				
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)	4.2				
08	Flow Rate (Nm³/hr)	5230				
09	Type of Fuel Used	Coal				
	Analysi	s Results of Flue Gas				
Sl. No.	Parameter(s)	Result(s)	Unit(s)	Limit(s)		
Ĺ	Particulate Matter	12 mg/Nm³ 30				
ii.	Sulphur Dioxide (as SO ₂)	BDL# mg/Nm ³ 1000				
iii.	Oxides of Nitrogen (as NO _x)	BDL#	mg/Nm³	800		

***BDL: Below Detection Level**



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Report No.: ENV/DCBL/23-24/SE-12/01

Date

: 10/01/2024

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

DALMIA CEMENT (BHARAT) LIMITED Report Issued To:

Village: Thangskai, Lumshnong, Meghalaya

STACK EMISSION TEST RESULTS

01	Test Ref. No.		DCBL/2023/SE-12/0	11			
02	Date of Sampling	14.12.2023					
03	Material of Construction		M. S.				
04	Stack Attached To		R. A. B. H.	e de la composition			
05	Stack Diameter (Meter)	3.0					
06	Flue Gas Temperature (°C)	163					
07	Exit Velocity of Gas (m/sec)		18.2				
08	Flow Rate (Nm³/hr)		316586				
09	Type of Fuel Used		Kiln Coal				
	Analy	sis Results of Flue Gas					
Sl. No.	Parameter(s)	Result(s)	Unit(s)	Limit(s)			
i.	Particulate Matter	.22	. 22 mg/Nm³				
ii.	Sulphur Dioxide (as SO ₂)	658	mg/Nm³	1000			
iii.	Oxides of Nitrogen (as NO _x)	372	mg/Nm³	800			



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Report No.: ENV/DCBL/23-24/SE-12/02

: 10/01/2024

Order No.: 4551000128/311 : 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-12	/02		
02	Date of Sampling	14.12.2023				
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)	12.6				
08	Flow Rate (Nm³/hr)	51047				
09	Type of Fuel Used	NA*				
	Analys	sis Results of Flue Gas				
Sl. No.	Parameter(s)	Result(s)	Unit(s)	Limit(s)		
i.	Particulate Matter	18 mg/Nm³ 30				
ii,	Sulphur Dioxide (as SO ₂)	442 mg/Nm³ 1000				
iii.	Oxides of Nitrogen (as NO _x)	138	mg/Nm³	800		

*NA: Not Applicable



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Report No.: ENV/DCBL/23-24/SE-12/03

Date : 10/01/2024

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.	DC	BL/2023/SE-12/03		
02	Date of Sampling		14.12.2023		
03	Material of Construction		M. S.		
04	Stack Attached To		Cooler E. S. P.	1/8	
05	Stack Diameter (Meter)	4.0			
06	Flue Gas Temperature (°C)	137			
07	Exit Velocity of Gas (m/sec)	9.3			
08	Flow Rate (Nm³/hr)	305833			
09	Type of Fuel Used		NA*		
	Analy	rsis Results of Flue Gas			
Sl. No.	Parameter(s)	Result(s)	Unit(s)	Limit(s)	
i.	Particulate Matter	21 mg/Nm³ 30			
ii,	Sulphur Dioxide (as SO ₂)	BDL* mg/Nm³ 1000			
iii.	Oxides of Nitrogen (as NO _x)	BDL*	mg/Nm³	800	

*NA: Not Applicable

*BDL: Below Detection Level



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Report No.: ENV/DCBL/23-24/SE-12/04

Date : 1

: 10/01/2024

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-12/	04		
02	Date of Sampling	15.12.2023				
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)	66				
07	Exit Velocity of Gas (m/sec)	13.2				
08	Flow Rate (Nm³/hr)	131250				
09	Type of Fuel Used		NA*			
	Analy	sis Results of Flue Gas				
Sl. No.	Parameter(s)	Result(s)	Unit(s)	Limit(s)		
i.	Particulate Matter	18 mg/Nm³ 30				
ii.	Sulphur Dioxide (as SO ₂)	BDL#	mg/Nm³	1000		
iii.	Oxides of Nitrogen (as NO _x)	BDL#	mg/Nm³	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-12/05

: 10/01/2024

Order No.: 4551000128/311 :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-12/	05	
02	Date of Sampling		15.12.2023		
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)	71			
07	Exit Velocity of Gas (m/sec)	17.3			
08	Flow Rate (Nm³/hr)		176842		
09	Type of Fuel Used		NA*		
	Analy	sis Results of Flue Gas			
Sl. No.	Parameter(s)	Result(s)	Unit(s)	Limit(s)	
i.	Particulate Matter	17 mg/Nm ³			
ii.	Sulphur Dioxide (as SO ₂)	BDL* mg/Nm³ 1000			
íií.	Oxides of Nitrogen (as NO _x)	BDL*	mg/Nm³	800	

*NA: Not Applicable

***BDL: Below Detection Level**



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Report No.: ENV/DCBL/23-24/SE-12/06

Date

: 10/01/2024

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-12,	/06	
02	Date of Sampling	16.12.2023			
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)	4.4			
08	Flow Rate (Nm³/hr)	6037			
09	Type of Fuel Used	Coal			
	Analys	is Results of Flue Gas			
Sl. No.	Parameter(s)	Result(s)	Unit(s)	Limit(s	
i.	Particulate Matter	15 mg/Nm³ 30			
ii.	Sulphur Dioxide (as SO ₂)	BDL# mg/Nm ³ 1000			
iii.	Oxides of Nitrogen (as NO _x)	BDL#	mg/Nm³	800	

#BDL: Below Detection Level



Checked By: Mr. Pankaj Baroi, ENVIROCON

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

Date : 08/02/2024 Order No.: 4551000128/311 : 09/06/2023 Date

Report Issued To:

DALMIA CEMENT (BHARAT) LIMITED

Village: Thangskai, Lumshnong, Meghalaya

STACK EMISSION TEST RESULTS

01	Test Ref. No.	D	DCBL/2024/SE-01/01		
02	Date of Sampling	27.01.2024			
03	Material of Construction		M. S.		
04	Stack Attached To		R. A. B. H.		
05	Stack Diameter (Meter)	- 1770	3.0		
06	Flue Gas Temperature (°C)	161			
07	Exit Velocity of Gas (m/sec)	17.8			
08	Flow Rate (Nm³/hr)	311055			
09	Type of Fuel Used	Kiln Coal			
	Analy	sis Results of Flue Gas			
Sl. No.	Parameter(s)	Result(s)	Unit(s)	Limit(s)	
i.	Particulate Matter	26	mg/Nm³	30	
ii.	Sulphur Dioxide (as SO ₂)	641	mg/Nm³	1000	
iii.	Oxides of Nitrogen (as NO _x)	348	mg/Nm³	800	



Checked By: Mr. Pankaj Baroi, ENVIROCON

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Report No.: ENV/DCBL/23-24/SE-01/02

: 08/02/2024

Order No.: 4551000128/311

: 09/06/2023 Date

DALMIA CEMENT (BHARAT) LIMITED Report Issued To:

Village: Thangskai, Lumshnong, Meghalaya

STACK EMISSION TEST RESULTS

01	Test Ref. No.	DCBL/2024/SE-01/02			
02	Date of Sampling	27.01.2024			
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)	11.8			
08	Flow Rate (Nm³/hr)	47660			
09	Type of Fuel Used	NA*			
	Analys	is Results of Flue Gas			
Sl. No.	Parameter(s)	Result(s)	Unit(s)	Limit(s)	
î.	Particulate Matter	21 mg/Nm³ 30			
ii.	Sulphur Dioxide (as SO ₂)	415 mg/Nm³ 1000			
iii.	Oxides of Nitrogen (as NO _x)	122	mg/Nm³	800	

*NA: Not Applicable



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Report No.: ENV/DCBL/23-24/SE-01/03

Date : 08/02/2024

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/2024/SE-01/03			
02	Date of Sampling		27.01.2024		
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)	135			
07	Exit Velocity of Gas (m/sec)	8.6			
08	Flow Rate (Nm³/hr)	284199			
09	Type of Fuel Used		NA*		
	Analysi	is Results of Flue Gas			
Sl. No.	Parameter(s)	Result(s)	Unit(s)	Limit(s)	
i.	Particulate Matter	24	mg/Nm³	30	
ii,	Sulphur Dioxide (as SO ₂)	BDL#	mg/Nm³	1000	
iii.	Oxides of Nitrogen (as NO _x)	BDL#	mg/Nm³	800	

*NA: Not Applicable

*BDL: Below Detection Level



Checked By: Mr. Pankaj Baroi, ENVIROCON

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ISO 9001:2015 Certified ISO 45001:2018 Certified

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

Date : 08/02/2024

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

Report Issued To: DALMIA CEM

DALMIA CEMENT (BHARAT) LIMITED Village: Thangskai, Lumshnong, Meghalaya

STACK EMISSION TEST RESULTS

01	Test Ref. No.	DCBL/2024/SE-01/04		
02	Date of Sampling	28.01.2024		
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)	69		
07	Exit Velocity of Gas (m/sec)	13.8		
08	Flow Rate (Nm³/hr)	136012		
09	Type of Fuel Used	NA*		
	Analysi	s 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/Nm³ 100		
iii.	Oxides of Nitrogen (as NO _x)	BDL#	mg/Nm³	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-01/05

: 08/02/2024

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

Report Issued To:

DALMIA CEMENT (BHARAT) LIMITED

Village: Thangskai, Lumshnong, Meghalaya

STACK EMISSION TEST RESULTS

01	Test Ref. No.	DCBL/2024/SE-01/05		
02	Date of Sampling	28.01.2024		
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)	73		
07	Exit Velocity of Gas (m/sec)	18.3		
08	Flow Rate (Nm³/hr)	178279		
09	Type of Fuel Used	NA*		
	Analys	is Results of Flue Gas		
Sl. No.	Parameter(s)	Result(s)	Unit(s)	Limit(s)
i.	Particulate Matter	16 mg/Nm ³ 3		
ii.	Sulphur Dioxide (as SO ₂)	BDL* mg/Nm³ 1000		
iii.	Oxides of Nitrogen (as NO _x)	BDL*	mg/Nm³	800

^{*}NA: Not Applicable

^{*}BDL: Below Detection Level



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

Date : 08/02/2024

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

Report Issued To: DALMIA CEMENT (BHARAT) LIMITED

Village: Thangskai, Lumshnong, Meghalaya

STACK EMISSION TEST RESULTS

iii.	Oxides of Nitrogen (as NO _x)	BDL#	mg/Nm³	800	
ii.	Sulphur Dioxide (as SO ₂)	BDL# mg/Nm³ 100			
i.	Particulate Matter	13 mg/Nm³			
Sl. No.	Parameter(s)	Result(s)	Result(s) Unit(s) Limi		
	Analys	is Results of Flue Gas			
09	Type of Fuel Used	Coal			
08	Flow Rate (Nm³/hr)	5743			
07	Exit Velocity of Gas (m/sec)	4.2			
06	Flue Gas Temperature (°C)	29			
05	Stack Diameter (Meter)	0.7			
04	Stack Attached To	Crusher B.F.			
03	Material of Construction	м. s.			
02	Date of Sampling	28.01.2024			
01	Test Ref. No.	DCBL/2024/SE-01/06			

^{*}BDL: Below Detection Level



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Report No.: ENV/DCBL/23-24/SE-02/01

Date

: 02/03/2024

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/2024/SE-02/01			
02	Date of Sampling	14.02.2024			
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)	164			
07	Exit Velocity of Gas (m/sec)	21.9			
08	Flow Rate (Nm³/hr)	380076			
09	Type of Fuel Used	Kiln Coal			
	Analysi	s Results of Flue Gas			
Sl. No.	Parameter(s)	Result(s)	Unit(s)	Limit(s)	
i.	Particulate Matter	22	mg/Nm³	30	
ii.	Sulphur Dioxide (as SO ₂)	571	mg/Nm³	1000	
iii.	Oxides of Nitrogen (as NO _x)	492	mg/Nm³	800	



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Report No.: ENV/DCBL/23-24/SE-02/02

Date : 02/03/2024 Order No.: 4551000128/311 : 09/06/2023 Date

Report Issued To: **DALMIA CEMENT (BHARAT) LIMITED**

Village: Thangskai, Lumshnong, Meghalaya

STACK EMISSION TEST RESULTS

01	Test Ref. No.	1	DCBL/2024/SE-02/02			
02	Date of Sampling		14.02.2024			
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)	10.2				
08	Flow Rate (Nm³/hr)	41451				
09	Type of Fuel Used		NA*			
	Analy	sis Results of Flue Gas				
Sl. No.	Parameter(s)	Result(s)	Unit(s)	Limit(s)		
i.	Particulate Matter	18 mg/Nm³		30		
ii.	Sulphur Dioxide (as SO ₂)	490 mg/Nm³ 1·00				
iii.	Oxides of Nitrogen (as NO _x)	134	mg/Nm³	800		

^{*}NA: Not Applicable



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Village: Thangskai, Lumshnong, Meghalaya

STACK EMISSION TEST RESULTS

01	Test Ref. No.	DCBL/2024/SE-02/03				
02	Date of Sampling		14.02.2024			
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)	132				
07	Exit Velocity of Gas (m/sec)	7.9				
08	Flow Rate (Nm³/hr)	263001				
09	Type of Fuel Used		NA*			
	Analys	sis Results of Flue Gas				
Sl. No.	Parameter(s)	Result(s)	Unit(s)	Limit(s)		
i.	Particulate Matter	21	21 mg/Nm³			
ii.	Sulphur Dioxide (as SO ₂)	BDL# mg/Nm³ 10				
iii.	Oxides of Nitrogen (as NO _x)	BDL#	mg/Nm³	800		

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Report No.: ENV/DCBL/23-24/SE-02/04

Date : 02/03/2024

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.	1	OCBL/2024/SE-02/0)4	
02	Date of Sampling		14.02.2024		
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)	67			
07	Exit Velocity of Gas (m/sec)	12.4			
08	Flow Rate (Nm³/hr)	122933			
09	Type of Fuel Used		NA*		
	Analysi	s Results of Flue Gas			
Sl. No.	Parameter(s)	Result(s)	Unit(s)	Limit(s)	
i	Particulate Matter	24	mg/Nm³	30	
ii.	Sulphur Dioxide (as SO ₂)	BDL#	mg/Nm³	1000	
iii.	Oxides of Nitrogen (as NO _x)	BDL#	mg/Nm³	800	

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Date : 02/03/2024

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Report Issued To: DALMIA CEMENT (BHARAT) LIMITED

Village: Thangskai, Lumshnong, Meghalaya

STACK EMISSION TEST RESULTS

01	Test Ref. No.		DCBL/2024/SE-02/0	5	
02	Date of Sampling	15.02.2024			
03	Material of Construction		M. S.		
04	Stack Attached To		Cement Mill No. 2	6	
05	Stack Diameter (Meter)	17084	2.0		
06	Flue Gas Temperature (°C)	62			
07	Exit Velocity of Gas (m/sec)		17.3		
08	Flow Rate (Nm³/hr)		174071		
09	Type of Fuel Used		NA*		
	Analys	sis Results of Flue Gas			
Sl. No.	Parameter(s)	Result(s)	Unit(s)	Limit(s)	
Ĺ	Particulate Matter	18	mg/Nm³	30	
íi.	Sulphur Dioxide (as SO ₂)	BDL*	mg/Nm³	1000	
íii.	Oxides of Nitrogen (as NO _x)	BDL*	mg/Nm³	800	

^{*}NA: Not Applicable

^{*}BDL: Below Detection Level



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

Date

: 02/03/2024

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

Report Issued To:

DALMIA CEMENT (BHARAT) LIMITED

Village: Thangskai, Lumshnong, Meghalaya

STACK EMISSION TEST RESULTS

01	Test Ref. No.		DCBL/2024/SE-02/	06	
02	Date of Sampling	15.02.2024			
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)	4.2			
08	Flow Rate (Nm³/hr)	5781			
09	Type of Fuel Used		Coal		
A	Analysi	s Results of Flue Gas			
Sl. No.	Parameter(s)	Result(s)	Unit(s)	Limit(s)	
Ĺ	Particulate Matter	9.6	mg/Nm³	30	
íi,	Sulphur Dioxide (as SO ₂)	BDL#	mg/Nm³	1000	
iii.	Oxides of Nitrogen (as NO _x)	BDL#	mg/Nm³	800	

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Report No.: ENV/DCBL/23-24/SE-03/01

Date

: 09/04/2024

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.	D	CBL/2024/SE-03/0	1	
02	Date of Sampling	23.03.2024			
03	Material of Construction		M. S.		
04	Stack Attached To		R. A. B. H.	9	
05	Stack Diameter (Meter)	3.0			
06	Flue Gas Temperature (°C)	161			
07	Exit Velocity of Gas (m/sec)		19.3		
08	Flow Rate (Nm³/hr)		372218		
09	Type of Fuel Used		Kiln Coal		
	Analys	sis Results of Flue Gas			
Sl. No.	Parameter(s)	Result(s)	Unit(s)	Limit(s	
i.	Particulate Matter	24	mg/Nm³	30	
ii.	Sulphur Dioxide (as SO ₂)	634	mg/Nm³	1000	
iii.	Oxides of Nitrogen (as NO _x)	326	mg/Nm³	800	



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Date

: 09/04/2024

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/2024/SE-03/	02	
02	Date of Sampling	23.03.2024			
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)	11.8			
08	Flow Rate (Nm³/hr)	47954			
09	Type of Fuel Used		NA*		
	Analy	sis Results of Flue Gas			
Sl. No.	Parameter(s)	Result(s)	Unit(s)	Limit(s)	
i.	Particulate Matter	20	mg/Nm³	30	
ii.	Sulphur Dioxide (as SO ₂)	482	mg/Nm³	1000	
iii.	Oxides of Nitrogen (as NO _x)	140	mg/Nm³	800	

^{*}NA: Not Applicable



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Report No.: ENV/DCBL/23-24/SE-03/03

Date : 09/04/2024

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/2024/SE-03/0	3
02	Date of Sampling	23.03.2024		
03	Material of Construction	0.004	M. S.	a salan managar
04	Stack Attached To		Cooler E. S. P.	
05	Stack Diameter (Meter)	4.0		
06	Flue Gas Temperature (°C)	139		
07	Exit Velocity of Gas (m/sec)	9.6		
08	Flow Rate (Nm³/hr)	314166		
09	Type of Fuel Used		NA*	
	Analysi	s Results of Flue Gas		
Sl. No.	Parameter(s)	Result(s)	Unit(s)	Limit(s)
i.	Particulate Matter	23	mg/Nm³	30
íi,	Sulphur Dioxide (as SO ₂)	BDL#	mg/Nm³	1000
iii.	Oxides of Nitrogen (as NO _x)	BDL#	mg/Nm³	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-03/04

Date : 09/04/2024

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/2024/SE-03,	/04
02	Date of Sampling	24.03.2024		
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)	68		
07	Exit Velocity of Gas (m/sec)	14.2		
08	Flow Rate (Nm³/hr)	140365		
09	Type of Fuel Used		NA*	
	Analys	is Results of Flue Gas		
Sl. No.	Parameter(s)	Result(s)	Unit(s)	Limit(s)
i.	Particulate Matter	16	mg/Nm³	30
ii.	Sulphur Dioxide (as SO ₂)	BDL#	mg/Nm³	1000
iii.	Oxides of Nitrogen (as NO _x)	BDL#	mg/Nm³	800

^{*}NA: Not Applicable

[#]BDL: Below Detection Level



Checked By: Mr. Pankaj Baroi, ENVIROCON

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E-mail: envirocon@rediffmail.com

ISO 9001:2015 Certified ISO 45001:2018 Certified

Report No.: ENV/DCBL/23-24/SE-03/05

Date

: 09/04/2024

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

DALMIA CEMENT (BHARAT) LIMITED Report Issued To:

Village: Thangskai, Lumshnong, Meghalaya

STACK EMISSION TEST RESULTS

01	Test Ref. No.	D	CBL/2024/SE-03/0	5	
02	Date of Sampling	24.03.2024			
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)	73			
07	Exit Velocity of Gas (m/sec)		16.7		
08	Flow Rate (Nm³/hr)	162692			
09	Type of Fuel Used		NA*		
	Analy	sis Results of Flue Gas			
Sl. No.	Parameter(s)	Result(s)	Unit(s)	Limit(s	
i.	Particulate Matter	19	mg/Nm³	30	
ii,	Sulphur Dioxide (as SO ₂)	BDL*	mg/Nm³	1000	
iii.	Oxides of Nitrogen (as NO _x)	BDL*	mg/Nm³	800	

*NA: Not Applicable

*BDL: Below Detection Level



Checked By: Mr. Pankaj Baroi, ENVIROCON

NOTE:

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

Date : 09/04/2024

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.	1	DCBL/2024/SE-03/	06	
02	Date of Sampling	24.03.2024			
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)		4.2		
08	Flow Rate (Nm³/hr)		5781		
09	Type of Fuel Used		Coal		
	Analy	sis Results of Flue Gas			
Sl. No.	Parameter(s)	Result(s)	Unit(s)	Limit(s)	
i.	Particulate Matter	12	mg/Nm³	30	
II.	Sulphur Dioxide (as SO ₂)	BDL#	mg/Nm³	1000	
íii.	Oxides of Nitrogen (as NO _x)	BDL#	mg/Nm³	800	

***BDL: Below Detection Level**



Checked By: Mr. Pankaj Baroi, ENVIROCON

NOTE: 1. Results reported are valid at the time of and under the prevailing conditions of measurement.

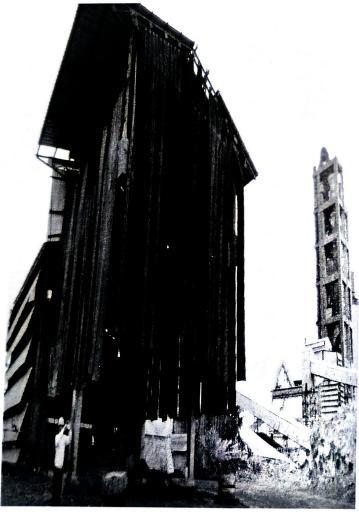
2. Results refer only to the particular parameters tested.

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Annexure – III 🕰









Annexure – IV





















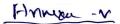














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Report No.: ENV/DCBL/23-24/FE-10/01

Date :

: 04/11/2023

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 (μg/m³)	Limits (μg/m³)
01	Fly-ash Storage Section	09.10.2023	2061	5000
02	Coal Storage Section	09.10.2023	867	2000
03	Limestone Storage Section	09.10.2023	1053	5000
04	Cement Packing Section	09.10.2023	2412	5000

Analysis Protocol: IS 5182



Checked By: Mr. Pankaj Baroi, ENVIROCON

NOTE

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ISO 9001:2015 Certified ISO 45001:2018 Certified

Report No.: ENV/DCBL/23-24/FE-11/01

Date : 07/12/2023 Order No.: 4551000128/311 : 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 (μg/m³)	Limits (μg/m³)
01	Fly-ash Storage Section	15.11.2023	2346	5000
02	Coal Storage Section	15.11.2023	978	2000
03	Limestone Storage Section	15.11.2023	1186	5000
04	Cement Packing Section	15.11.2023	2792	5000

Analysis Protocol: IS 5182



Checked By: Mr. Pankaj Baroi, ENVIROCON

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Report No.: ENV/DCBL/23-24/FE-12/01

Date

: 10/01/2024

Order No.: 4551000128/311 : 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 (μg/m³)	Limits (μg/m³)
01	Fly-ash Storage Section	14.12.2023	2378	5000
02	Coal Storage Section	14.12.2023	983	2000
03	Limestone Storage Section	14.12.2023	1199	5000
04	Cement Packing Section	14.12.2023	2803	5000

Analysis Protocol: IS 5182



Checked By: Mr. Pankaj Baroi, ENVIROCON

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Report No.: ENV/DCBL/23-24/FE-01/01

: 08/02/2024

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

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 (μg/m³)	Limits (µg/m³)
01	Fly-ash Storage Section	27.01.2024	2382	5000
02	Coal Storage Section	27.01.2024	981	2000
03	Limestone Storage Section	27.01.2024	1189	5000
04	Cement Packing Section	27.01.2024	2823	5000

Analysis Protocol: IS 5182



Checked By: Mr. Pankaj Baroi, ENVIROCON

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Report No.: ENV/DCBL/23-24/FE-02/01

Date : 02/03/2024 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 (μg/m³)	Limits (μg/m³)
01	Fly-ash Storage Section	14.02.2024	2314	5000
02	Coal Storage Section	14.02.2024	952	2000
03	Limestone Storage Section	14.02.2024	1136	5000
04	Cement Packing Section	14.02.2024	2710	5000

Analysis Protocol: IS 5182



Checked By: Mr. Pankaj Baroi, ENVIROCON

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Report No.: ENV/DCBL/23-24/FE-03/01

: 09/04/2024

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

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 (μg/m³)	Limits (µg/m³)
01	Fly-ash Storage Section	23.03.2024	2371	5000
02	Coal Storage Section	23.03.2024	968	2000
03	Limestone Storage Section	23.03.2024	1191	5000
04	Cement Packing Section	23.03.2024	2809	5000

Analysis Protocol: IS 5182



Checked By: Mr. Pankaj Baroi, ENVIROCON

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Annexure – VI









Dalmia Cement Bharat Ltd. Thansgskai

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

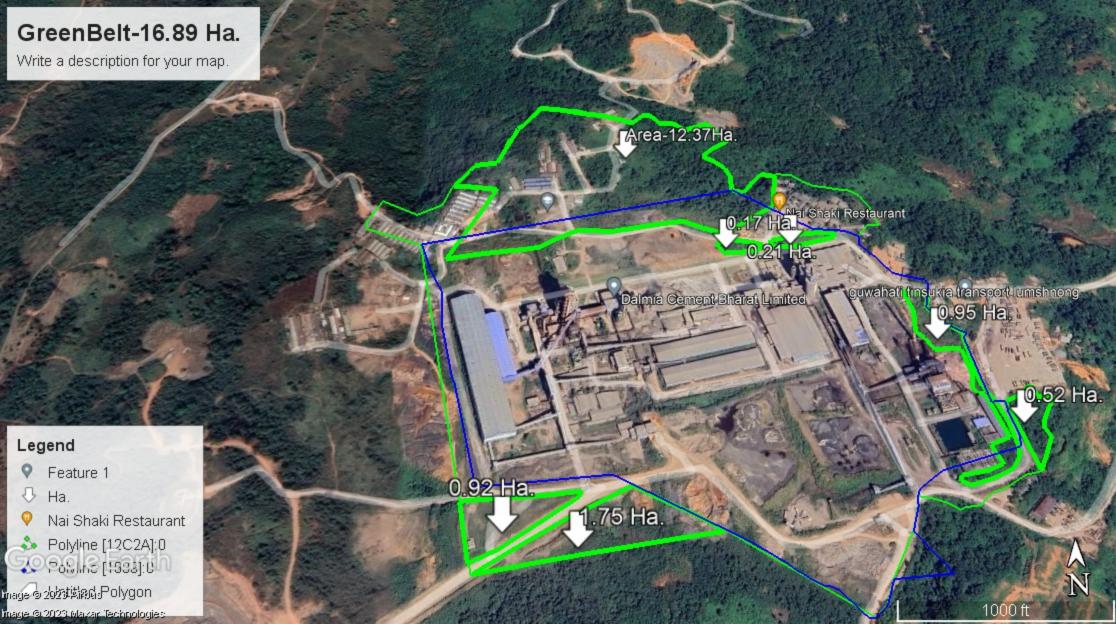
11								
Pitarya 10	11	18.06.2009				/		
12 20.7.2009			Pitariya		Near Sr.block	88%	18	
12		Total	Dalaya					
Orange 3 Near Hospital 90% 50	12	12 20.7.2000			-			
Total	12	20.7.2009			Near Hospital	90%	50	
13		Total	Orange		1			
13			Alogara	1				
Cane suger 10	13	09.03.2010			1			
Total					Near CEO house	65%	208	
14		Total		320	1			
Dhaou tea 10			Taro	2				
Total Figure Total Total Figure Total To	14	15.03.2010	Daliya	50		2221		
Neem 5			Dhaou tea	10	Near CEO house	90%	56	
15		Total		62				
Small plum			Neem	5				
Small plum	15	20.11.2010	Alogara	30				
Total				10	Admin Office	90%	40	
16		Total	·	45	1			
Near G.M. Block 90% 49			Patanya	10	Near G.M. Block	00%		
Total	16	23.11.2010	Kanaya	25			40	
Neem 100 Tajpata 100 Champa 200 Gold mohar 100			Koctash	20		90%	49	
Tajpata 100 Champa 200 A.C.L work Shop 95% 475		Total		55				
17			Neem	100		95%		
Champa 200 A.C.L work Shop 95% 475	47	02 02 2011	Tajpata	100				
Gold mohar 100 Total 500	1/	03.03.2011	Champa	200	A.C.L work Shop		475	
18			Gold mohar	100				
19		Total		500				
19	18	05.04.2011	Cook com	100	C.C.R	95%	95	
Alobara 100 Near Civil Office 90% 112		07.07.0044	Neem	25				
20	19	07.05.2011	Alobara	100	Near Civil Office	90%	112	
20		Total		125]			
20			Ghamari					
Gold mohar 100 Total 302 21 27.06.2011 Champa 60 Pump House to CCR (Road Side) 85% 51	20	11.05.2011		102	CDD to Carrepos	700/	211	
21 27.06.2011 Champa 60 Pump House to CCR (Road Side) 85% 51 22 Cook com Daliya 100 Daliya Mechanical Work Shop 70% 112			-	100	CPP to Crusher	70%	211	
Total 60 (Road Side) 85% 51 22 O6.07.2011		Total		302				
Total 60 (Road Side) 22 06.07.2011 Cook com 100 Daliya 50 Mechanical Work Shop 70% 112	21	27.06.2011	Champa	60	Pump House to CCR	0.50/	Г1	
22 06.07.2011 Daliya 50 Mechanical Work 70% 112 Rage 10 Shop		Total		60	(Road Side)	ŏ>% 	21	
Rage 10 Shop 70% 112			Cook com	100				
Rage 10 Shop 70% 112	22	06.07.2011	Daliya	50	Machanical Work		112	
Total 160		00.07.2011	Rage	10		70%		
		Total		160				

23	15.07.2011	Neem	20	- Mechanical Work		
	15.07.2011	Alobara	25	Shop	75%	34
	Total		45	3.100		
24	27.07.2011	Chandra mukhi	50	Mech. Work Shop	70%	35
Total		50	·			
25	05.10.2011	Daliya	100	Admin Office	050/	0.4
		Alobara	10	CEO House	85%	94
	Total	Dana	110	Chana		
26	15.11.2011	Rose	10	Store	CE0/	20
	<u> </u> Total	Cooks com	50	Raw mill section	65%	39
	Total		60			
27	10.12.2011	Chandra mukhi	50	Mechanical Work		
		Kanaya	20	Shop	80%	56
	Total		70			
20	10 12 2011	Pituniya	50			
28	18.12.2011	Ganda	60	Raw mill section	90%	99
	Total		110	1		
22	20.42.224	Champa	65			
29	30.12.2011	Rose	7	Mechanical Work	80%	58
	Total		72	Shop		
20	05 02 2012	Daliya	50			
30	30 05.02.2012	Selbiya	50	Admin Office	70%	70
Total		100				
		Cooks com	20	CEO House 90		
31	07.03.2012	Selbiya	30			
		Alobara	10		90%	54
	Total	7.110.001.0	60	1		
	<u> </u>	Daliva		CEO House		
32	15.04.2012	Daliya	30	CEO House	70%	49
		Mani plant	40	C.C.R	/ 0 / 0	43
	Total	CI. II. II	70			
33	20.04.2012	Chille flower	2	ACL Mandir	90%	1
	Total		2			
		Orange	2	-		
34	22.04.2012	Neem	2	Near Blue House	85%	6
		Pearya Mango Tree	2 1	iveal blue flouse	0370	O
	<u>I</u> Total	ivialigo ITEE	7	1		
	10tai	Mango Tree	200	Hospital		
				 		
25	05.00.3043	Neem	200	Pump House		
35	05.06.2012	Ghamari	200	Raw mill section	90%	900
		Hartki	200	Mech. Work Shop		
		Champa	200	CCR (Nearest)		
	Total		1000			
36	20.06.2012	Payan Tree	2	G.M.Block	90%	9

		Ashoka Tree	150	racking riant to haw		
37	03.07.2012	Chata Flower	5	Mech. Work Shop	90%	180
	Total		200		30,5	
		Ashoka Tree	50	Power Plant		
38	05.07.2012	Ashoka Tree	12	Mechanical	90%	56
	<u>I</u> Total	7.SHOKU TIEC	62	Weenamear	3070	30
	l	Champa	50	Vehicle		
		Champa				
39	07.07.2012	Ghamari	50	Vehicle		
	07.07.2012	Neem hortki	50 50	Vehicle Vehicle	85%	173
		Ashoka Tree	50 4	Store		
	Total	ASTIONA TIEE		Store		
	Total	I –	204			
		Mango Tree	20	4		
40	09.07.2012	Champa	20	Mech.Work shop	90%	54
		hortki	20			-
	Total		60			
		Ashoka Tree	50	Raw mill section		
		Chinese pump	2	Director Block		
41	03.08.2012	Definbikia	4	C.C.R	90%	F 2
		Fellendonda	2	C.C.R		53
		Larlamazme	1	C.C.R		
	Total		59			
42	05.08.2012	Chata Tree	1			
72	Total	Chata free	1	A.C.L Mandir	90%	49
	11.12.12	Chata Tree	50		80%	40
	Total	Chata free	50	Thangskai	8070	40
	l		30			
43	23.12.12	Chatra Tree	200	Near Director Block	90%	180
	Total		200		3373	
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	ehind Stacker Reclaim	90%	270
47	10.10.13	Local Species	500	ehind 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
		•				

Total	52	10.5.14	21 types of local species	180	cement Mill area, compressor house	90%	162
Total		Total		180			
Total	53	14.6.14		120		89%	107
Total		Total		120			
Total	54	23.01.15	, , , , , , , , , , , , , , , , , , ,	120	area, compressor	88%	105
Total Tota		Total		120			
Total	55	27.4.15		144	cement Mill area	84%	121
Total		Total		144			
Total	56		7 7	146	Near labour colony	82%	120
Total	ļ	Total		146			
Sal Tree 35	57			40	Near Engineer block	75%	30
Second							
Total 12 types of local species 81	58	21.8.15	Sal Tree		Near Gou Sala	69%	24
Second			421	35			
Total Stypes of local species 55 Near Sequrity office 73% 40	59		7.		Near CPP	80%	65
Total Species SS		Total	40. (1.1	81			
61 2.2.16 8 types of local species 31 Near Dispatch Office 58% 18 Total 31 Near Primary crusher 62% 43 Total 69 Pront of CCR & OHS 90% 3700 63 16.07.2016 30 types of different local species 25000 Front of CCR & OHS 90% 3700 Total 25000 Front of CCR 90% 90 Total 100 Front of Packing Plant 60% 48 Total 80 Front of Store 80% 120 Total 120 Front of Store 80% 120 Total 120 Front of Store 80% 90% 67 8.8.2017 Near CCR 100 Guava 90% 90%	60		7 7		Near Sequrity office	73%	40
Total Species Specie		Total		55			
62 20.6.16 17 types of local species 69 Near Primary crusher 62% 43 63 16.07.2016 30 types of different local species 25000 Front of CCR & OHS species 90% 3700 64 14.09.2016 Ashoka Tree 100 Front of CCR 90% 90 Total 100 Front of Packing Plant 60% 48 Total 80 Front of Store 80% 120 Total 120 Front of Store 80% 120 Total 120 Front of Store 80% 120 88.8.2017 Near CCR 100 Guava 90% 90	61				Near Dispatch Office	58%	18
Total Species 69 Crusher 62% 43		Total		31			
63 16.07.2016 30 types of different local species 25000 Front of CCR & OHS species 90% 3700 64 14.09.2016 Ashoka Tree 100 Front of CCR 90% 90 Total 100 Front of Packing Plant 60% 48 Total 80 Front of Store 80% 120 Front of Store 80% 120 Total 120 Front of Store 80% 120 120 Front of Store 80% 120 120 Front of Store 80% 120 120	62		7.		·	62%	43
63 16.07.2016 different local species 25000 Front of CCR & OHS 90% 3700 64 14.09.2016 Ashoka Tree 100 Front of CCR 90% 90 65 12.12.2016 Orange Tree 80 Front of Packing Plant 60% 48 50 Total 80 Front of Store 80% 120 66 05.03.2017 Mango Tree 120 Front of Store 80% 120 67 8.8.2017 Near CCR 100 Guava 90% 90		lotal	_	69			
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 Front of Store 80% 120 Total 120 Front of Store 80% 120 67 8.8.2017 Near CCR 100 Guava 90% 90	63	16.07.2016	different local	25000	Front of CCR & OHS	90%	3700
Total 100 90% 90		Total		25000			
65 12.12.2016 Orange Tree 80 Front of Packing Plant 60% 48 66 05.03.2017 Mango Tree 120 Front of Store 80% 120 Total 120 Guava 90% 90 67 8.8.2017 Near CCR 100 Guava 90% 90	64		Ashoka Tree		Front of CCR	90%	90
Total S0	ļ	Total	г	100	Frank of Double		
66 05.03.2017 Mango Tree 120 Front of Store 80% 120 Total 120 Guava 90% 90 67 8.8.2017 Near CCR 100 Guava 90% 90	65		Orange Tree		· · · · · · · · · · · · · · · · · · ·	60%	48
Total 120 80% 120 67 8.8.2017 Near CCR 100 Guava 90% 90					F		
67 8.8.2017 Near CCR 100 Guava 90% 90	66		Mango Tree		Front of Store	80%	120
	1		N 000				
69 22 12 2017 Near Coment Mill 90 Orango 00% 72	67	8.8.2017	Near CCR	100	Guava	90%	90
	60	22 12 2017	Near Cement Mill	90	Orange	90%	72

69	5.5.2018	Near Store Yeard	100	Local Species	90%	90
70	8.12.2018	Near Logistics office	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
82	02.2.2024	Near Colony Appro		Different Local Specie	90%	636
		All	total			15800





































<u>Recognised By</u> Pollution Control Board, Assam Anne x

Envirocon Building, I.O.C.L (AOD) New Market P.O.: Digboi, Dist.: Tinsukia, Assam – 786 171 Ph: 03751-264414, 9435008657, 8876028672 E-mail: envirocon@rediffmail.com

ISO 9001:2015 Certified ISO 45001:2018 Certified

Report No.: ENV/DCBL/23-24/AA-10/01

Date : 04/11/2023

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/m³)	PM 10 (μg/m³)	SO ₂ (μg/m³)	ΝΟ ₂ (μg/m ³)
	LIMIT(S) →		60	100	80	80
01	Near Cement Mill	09.10.2023	26.8	53.4	6.9	7.7
02	Near CPP	09.10.2023	23.5	48.9	6.2	6.9
03	Near CCR	09.10.2023	24.2	39.3	<5.0	<6.0
04	Vrindavan Colony	09.10.2023	20.7	32.6	<5.0	<6.0

Analysis Protocol: IS 5182



Checked By: Mr. Pankaj Baroi, ENVIROCON

NOTE:

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2. Results refer only to the particular parameters tested.

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ISO 9001:2015 Certified ISO 45001:2018 Certified

Report No.: ENV/DCBL/23-24/AA-11/01

Date : 07/12/2023

Order No.: 4551000128/311

Date : 09/06/2023

Report Issued To: DALMIA CEMENT (BHARAT) LIMITED

Village: Thangskai, Lumshnong, Meghalaya

AMBIENT AIR QUALITY TEST RESULTS

SI. No.	LOCATION(S) 1	Date of Sampling	PM 2.5 (μg/m³)	PM 10 (μg/m³)	SO ₂ (μg/m³)	NO ₂ (μg/m³)
LIMIT(S) →	LIMIT(S) → 60	60	100	80	80	
01	Near Cement Mill	15.11.2023	33.4	57.8	6.3	7.4
02	Near CPP	15.11.2023	27.9	51.4	5.5	6.3
03	Near CCR	15.11.2023	29.5	39.6	<5.0	<6.0
04	Vrindavan Colony	15.11.2023	21.3	32.4	<5.0	<6.0

Analysis Protocol: IS 5182



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ISO 9001:2015 Certified ISO 45001:2018 Certified

Report No.: ENV/DCBL/23-24/AA-12/01

Date : 10/01/2024

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) ↓ LIMIT(S) →	Date of Sampling	PM 2.5 (μg/m³) 60	PM 10 (μg/m³)	SO ₂ (μg/m³)	NO ₂ (μg/m³) 80
				100	80	
01	Near Cement Mill	14.12.2023	35.7	58.4	6.8	7.6
02	Near CPP	14.12.2023	29.1	53.3	5.7	6.5
03	Near CCR	14.12.2023	31.4	51.6	<5.0	<6.0
04	Vrindavan Colony	14.12.2023	20.3	35.9	<5.0	<6.0

Analysis Protocol: IS 5182



Checked By: Mr. Pankaj Baroi, ENVIROCON

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E-mail: envirocon@rediffmail.com

ISO 9001:2015 Certified ISO 45001:2018 Certified

Report No.: ENV/DCBL/23-24/AA-01/01

Date : 08/02/2024

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

Report Issued To:

DALMIA CEMENT (BHARAT) LIMITEDVillage: Thangskai, Lumshnong, Meghalaya

AMBIENT AIR QUALITY TEST RESULTS

Sl. No.	LOCATION(S) ↓	LOCATION(S) ↓ Date of Sampling	PM 2.5 (μg/m³)	PM 10 (μg/m³)	SO₂ (μg/m³)	NO ₂ (μg/m ³)
	LIMIT(S) →		60	100	80	80
01	Near Cement Mill	27.01.2024	36.8	59.7	6.9	7.8
02	Near CPP	27.01.2024	30.2	55.4	5.9	6.7
03	Near CCR	27.01.2024	33.9	53.2	<5.0	<6.0
04	Vrindavan Colony	27.01.2024	22.5	39.7	<5.0	<6.0

Analysis Protocol: IS 5182



Checked By: Mr. Pankaj Baroi, ENVIROCON

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ISO 9001:2015 Certified ISO 45001:2018 Certified

Report No.: ENV/DCBL/23-24/AA-02/01

Date : 02/03/2024

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/m³)	PM 10 (μg/m³)	SO ₂ (μg/m³)	NO ₂ (μg/m³)
	LIMIT(S) →	-	60	100	80	80
01	Near Cement Mill	14.02.2024	32.4	51.3	5.4	6.2
02	Near CPP	14.02.2024	25.2	45.8	6.2	6.7
03	Near CCR	14.02.2024	23.4	37.3	<5.0	<6.0
04	Vrindavan Colony	14.02.2024	18.3	29.2	<5.0	<6.0

Analysis Protocol: IS 5182



Checked By: Mr. Pankaj Baroi, ENVIROCON

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ISO 9001:2015 Certified ISO 45001:2018 Certified

Report No.: ENV/DCBL/23-24/AA-03/01

Date

: 09/04/2024

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/m³)	PM 10 (μg/m³)	SO ₂ (μg/m³)	ΝΟ ₂ (μg/m³)
	LIMIT(S) →		60	100	80	80
01	Near Cement Mill	23.03.2024	34.3	57.3	7.2	7.9
02	Near CPP	23.03.2024	28.6	54.9	5.9	6.9
03	Near CCR	23.03.2024	33.7	51.6	<5.0	<6.0
04	Vrindavan Colony	23.03.2024	19.4	37.8	<5.0	<6.0

Analysis Protocol: IS 5182



Checked By: Mr. Pankaj Baroi, ENVIROCON

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Name of the Industry: Dalmia Cement (Bharat) Limited Date: 28.3.2024

Monitoring Location: DCBL - Plant

Date of Monitoring: 11.03.24 to 12.03.24 **Report No**.: ENV/DCBL/23-24/AA-08/08

AMBIENT AIR QUALITY SURVEY REPORT

		Locations & A	Analysis Results		Permissible Limits
Pollutants	Near Cement Mill	Near CPP	Near CCR	Vrindavan Colony	(in μg/m³)
Particulate Matter size less than 10 μ (PM 10)	66.4	64.2	62.3	52.3	100*
Particulate Matter size less than 2.5 μ (PM 2.5)	22.8	21.8	22.8	20.5	60*
Sulfur dioxide (SO2)	7.1	6.8	7.9	7.4	80*
Oxides of Nitrogen (NOx)	8.2	8.3	8.0	6.4	80*
Carbon Monoxide (CO)	ND	ND	ND	ND	4**
Ammonia (NH3)	ND	ND	ND	ND	400
Ozone (O3)	ND	ND	ND	ND	180
Lead (Pb)	ND	ND	ND	ND	1.0
Benzene (C3H3)	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.



Pollution Control Board, Assam

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ISO 9001:2015 Certified ISO 45001:2018 Certified

Report No.: ENV/DCBL/23-24/N-10/01

Date

: 04/11/2023

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

DALMIA CEMENT (BHARAT) LIMITED Report Issued To:

Village: Thangskai, Lumshnong, Meghalaya

NOISE LEVEL MEASUREMENT RESULTS

Sl. No.	Location(s)	Date Of Measurement	Day time		Night Time	
			L _{eq} (dB-A)	Limit (dB-A)	L _{eq} (dB-A)	Limit (dB-A)
1	Near Admin Office	09.10.2023	68.3	75	56.9	70
2	Near Worker Colony	09.10.2023	45.8	55	39.7	45
3	Near Staff Colony	09.10.2023	47.2	55	33.6	45



Checked By: Mr. Pankaj Baroi, ENVIROCON

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ISO 9001:2015 Certified ISO 45001:2018 Certified

Report No.: ENV/DCBL/23-24/N-11/01

Date : 07/12/2023

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	
			L _{eq} (dB-A)	Limit (dB-A)	L _{eq} (dB-A)	Limit (dB-A)
1	Near Admin Office	15.11.2023	69.7	75	54.7	70
2	Near Worker Colony	15.11.2023	47.3	55	34.3	45
3	Near Staff Colony	15.11.2023	51.6	55	33.8	45



Checked By: Mr. Pankaj Baroi, ENVIROCON

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Report No.: ENV/DCBL/23-24/N-12/01

Date : 10/01/2024

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

Report Issued To:

: DALMIA CEMENT (BHARAT) LIMITED

Village: Thangskai, Lumshnong, Meghalaya

NOISE LEVEL MEASUREMENT RESULTS

		Date	Day time		Night Time	
Sl. No.	Location(s)	Of Measurement	L _{eq} (dB-A)	Limit (dB-A)	L _{eq} (dB-A)	Limit (dB-A)
1	Near Admin Office	14.12.2023	68.1	75	56.2	70
2	Near Worker Colony	14.12.2023	49.4	55	38.3	45
3	Near Staff Colony	14.12.2023	50.7	55	36.7	45



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

Date : 08/02/2024

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	
			L _{eq} (dB-A)	Limit (dB-A)	L _{eq} (dB-A)	Limit (dB-A)
1	Near Admin Office	27.01.2024	69.2	75	60.4	70
2	Near Worker Colony	27.01.2024	48.1	55	39.5	45
3	Near Staff Colony	27.01.2024	52.3	55	41.2	45



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ISO 9001:2015 Certified ISO 45001:2018 Certified

Report No.: ENV/DCBL/23-24/N-02/01

Date

: 02/03/2024

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	
			L _{eq} (dB-A)	Limit (dB-A)	L _{eq} (dB-A)	Limit (dB-A)
1	Near Admin Office	14.02.2024	66.4	75	55.1	70
2	Near Worker Colony	14.02.2024	46.3	55	37.7	45
3	Near Staff Colony	14.02.2024	48.6	55	32.6	45



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Report No.: ENV/DCBL/23-24/N-03/01

Date : 09/04/2024

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

Report Issued To:

DALMIA CEMENT (BHARAT) LIMITED Village: Thangskai, Lumshnong, Meghalaya

NOISE LEVEL MEASUREMENT RESULTS

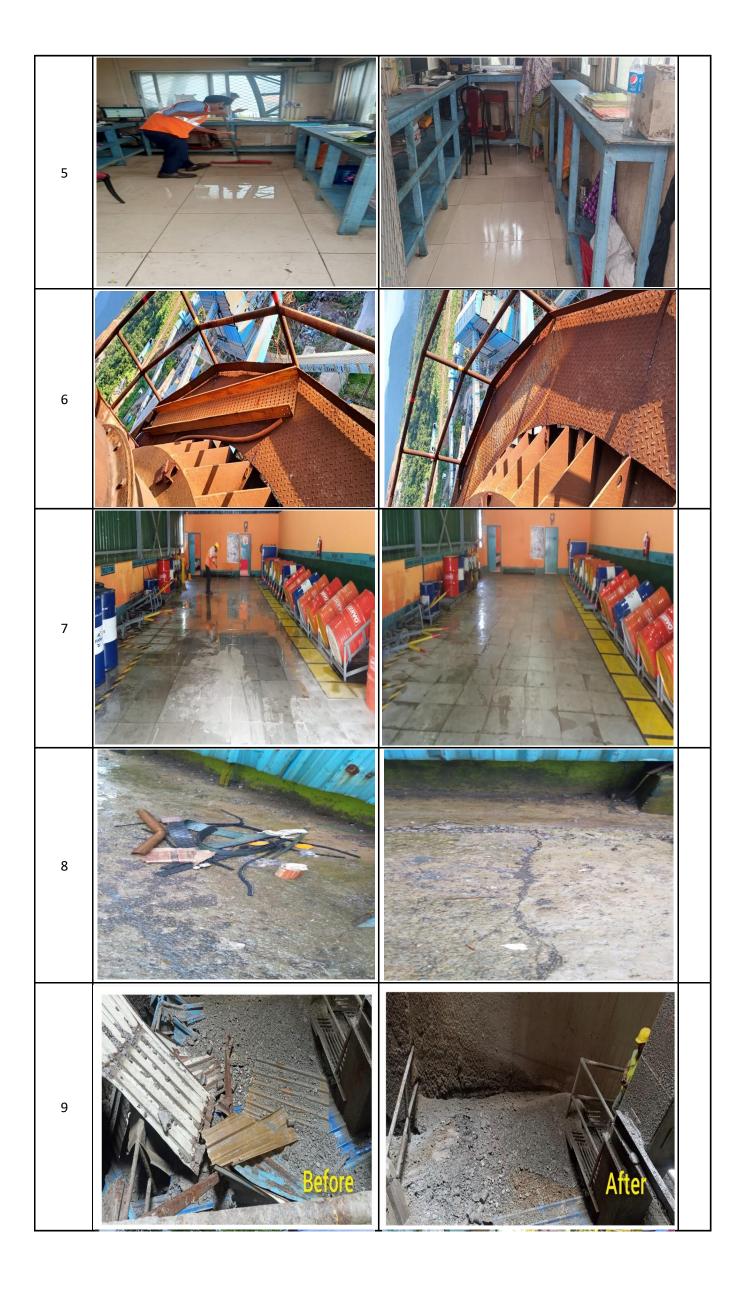
Sl. No.	Location(s)	Date Of Measurement	Day time		Night Time	
			L _{eq} (dB-A)	Limit (dB-A)	L _{eq} (dB-A)	Limit (dB-A)
1	Near Admin Office	23.03.2024	67.6	75	58.6	70
2	Near Worker Colony	23.03.2024	48.3	55	39.5	45
3	Near Staff Colony	23.03.2024	49.7	55	40.2	45



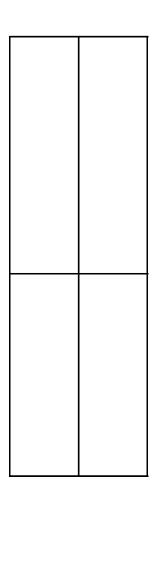
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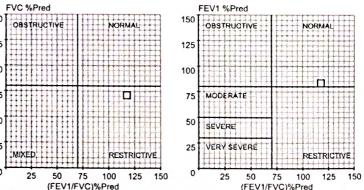




OHC DALMIA CEMENT (BHARAT) LTD Umsoo Mootang, Thangskai (Vill), East Jaintia Hills District, Meghalaya-793210 OHC DALMIA CEMENT (SHARAT) LTD 503 - BALA JEE PANDEY **FVC TEST** Pred Eqn : CLARITY Eth.Corr: 100 Temp: 0°C 30 Years / Male / Ht 172 Cms /79 Kgs / Non-Smoker Date: 16-04-2024 (T1) Ref By: NONE F(Liters/Sec) Parameter Pred Pre Pre% Post Post% Imp% **FVC** 2.62 71 [L] 3.69 FEV1 [L] 2.60 83 3.12 FEV.5 [L] 2.25 FEV3 [L] 3.58 10 FEV6 [L] DEF25% **PEFR** [L/s] 9.34 8.24 88 FEF50% FEF25-75 [L/s] 4.43 5.15 116 FEF75-85 2.45 [L/s] 7.04 92 FEF.2-1.2 [L/s] 7.67 FEF75% FEF25% [L/s] 8.15 9.19 113 FEF50% 5.31 89 [L/s] 5.97 2 3 4 5 6 7 V(Liters), [L/s] FEF75% 3.16 3.04 96 FEV.5/FVC 85.96 [%] FEV1/FVC [%] 84.55 99.41 118 FEV3/FVC [%] 97.00 FEV6/FVC [%] FEV1/FEV6 [%] 1.21 [S] 0.07 ExplTime [S] V(Liters) LungAge [Y] 30.00 35.00 117 FIVC [L] 3.37 ---**PIFR** [L/s] 7.65 FIF25% [L/s] 8.79 FIF50% [L/s] 4.45 FIF75% [L/s] 1.68 FIV.5 [L] 0.02 FIV1 1.71 [L] FIV3 [L] FIV.5/FIVC 0.47 [%] FIV1/FIVC __ [%] 50.69 FIV3/FIVC [%] FVC %Pred FEV1 %Pred OBSTRUCTIVE NORMAL - Pre Medication Report : Spirometery shows Mild Restriction as FVC% < 80 A 125 nd FEV1/FVC% > 100 MODERATE 50

- Pre COPD Severity Report: COPD Severity within Normal range

- Doctor's Comments :



Dr. Ramanand Prasad

124
124
- /
irmal Range
< 140
< 140

:End of Report:

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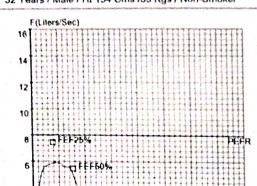
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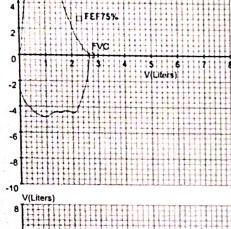
Dalmia Cement (Bharat) Ltd.

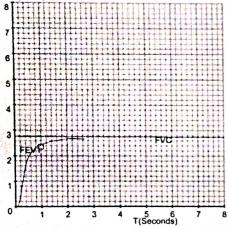
Umsoo Mootang, Thangskal (Vill), East Jaintia Hills District, Meghalaya-793210

372 - GOLDEN STAR RYMBAI 32 Years / Male / Ht 154 Cms /53 Kgs / Non-Smoker FVC TEST Date: 27-03-2024 (T1) Pred Eqn : CLARITY Eth.Corr Ref By : NONE

Temp : 0°C







Pre Medication Report :
 Spirometery within Normal range as FVC% >= 80 And FEV1/FVC% > 70

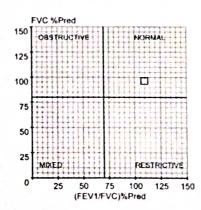
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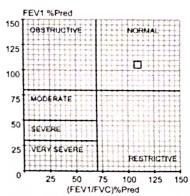
4

- Pre COPD Severity Report: COPD Severity within Normal range

- Doctor's Comments ;

Parameter		Pred	Pre	Pre%	Post	Post%	Imp%
FVC	(L)	2.76	2.66	96	**	**	-
FEV1	[L]	2.36	2.49	106	na	**	-
FEV.5	[L]	A-10	2.14	wa .	**		-
FEV3	[L]	2.68	-		trail .		
FEV6	{L}	***					-
PEFR	[L/s]	7.99	5.92	74	-	sea.	
FEF25-75	[L/s]	4.00	5.00	125			-
FEF75-85	[L/s]		1.72				-
FEF.2-1.2	[L/s]	6.62	5.43	82			-
FEF25%	[L/s]	7.48	6.60	88			-
FEF50%	[L/s]	5.44	6.23	114			
FEF75%	[L/s]	2.82	2.32	82		-	-
FEV.5/FVC	[%]		80.19	-			-
FEV1/FVC	[%]	85.37	93.53	110			-
FEV3/FVC	[%]	97.00		-			-
FEV6/FVC	[%]						-
FEV1/FEV6	[%]			-			
FET	[S]	-	2.58	-			-
ExplTime	[S]		0.25	-		-	-
LungAge	[Y]	32.00	30.00	94			-
FIVC	[L]		2.94	-	~		_
PIFR	[L/s]		4.80	-			-
FIF25%	[L/s]		6.66				-
FIF50%	[L/s]	-	6.32	-			
FIF75%	[L/s]		2.14	-			-
FIV.5	[L]		2.00	-			-
FIV1	[L]		2.94	_			-
FIV3	[L]						
FIV.5/FIVC	[%]		68.10	-			
FIV1/FIVC	[%]		100.00	-			-
FIV3/FIVC	[%]	4-					-





Dr. Ramanand Prasad

DALMIA CEMENT (BHARAT) LTD, MEGHALAYA Medical Laboratory Report, OHC Report Date: 27/03/29
Sample collection Date: 27/03/29
Lab Report No: 6 Name: Goldenstah Rymban Aze: 32 Genderi In Normal Range Unit Results Si. No. Test Name Blood < 140 mg/dL 98 V Blood glucose (Random) Seen/Not seen AFB Staining

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Dalmia Cement (Bharat) Ltd.

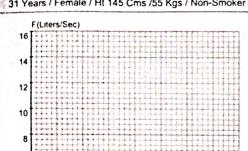
Umsoo Mootang, Thangskai (Vill), East Jaintia Hills District, Meghalaya-793210

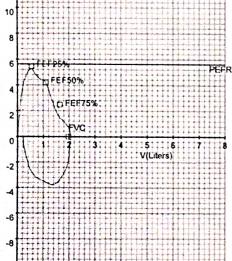
429 - PHERLIN LITING

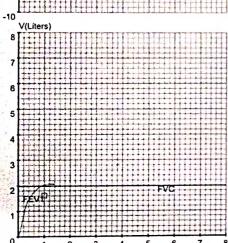
31 Years / Female / Ht 145 Cms /55 Kgs / Non-Smoker

FVC TEST Date: 04-04-2024 (T1) Pred Eqn: CLARITY Ref By: NONE

Temp: 0°C



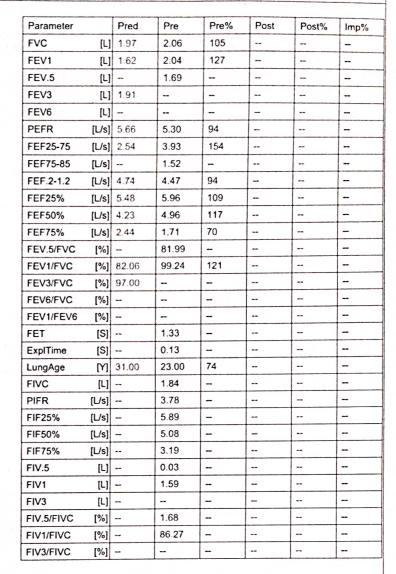


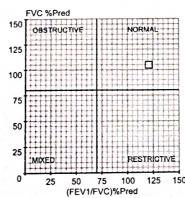


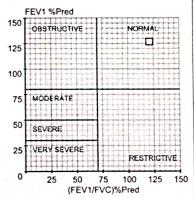
- Pre Medication Report : Spirometery within Normal range as FVC% >= 80 And FEV1/FVC% > 70

- Pre COPD Severity Report: COPD Severity within Normal range

- Doctor's Comments :







Dr. Ramanand Prasad

and the later teachers are a	DALMIA CIN	MENT (BHARAT) LTD, MEGH	ALAYA	
-	Medi	cal Laboratory Report, OHC	The same of the sa	The effect in the first states and place in the property of the effect in the effect i
Name : Age : Gender	Therein liting	Sample collec	Report Date : tion Date : eport No :	4.4.24
SI. No.	Test Name	* ************************************	Unit	Normal Range
Secretary lowers	Blood	THE RESERVE THE PROPERTY OF THE PARTY OF THE		A MINISTERIO DE PROPERTO DE LA COMPANSA DE PROPERTO DE
1	Blood glucose (Random)	105	me/dl	< 140
2 maintaining spanning	APB Staining	Seen/Not self	The second secon	and the second section of the second section in the second section is section in the second section in the se
- market by the contra			Concert Combinates Size and Proposed Size on Popular Size on P	prikter plikter i getioner film med sind engigt defendelik med dem sidde blev, sammitter film timper
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	1		MODERN SAUDING TO THE PARTY OF	A STATE OF THE PARTY OF THE PAR

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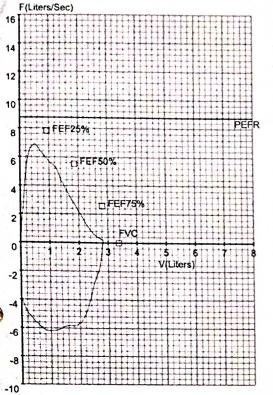
OHC DALMIA CEMENT (BHARAT) LTD

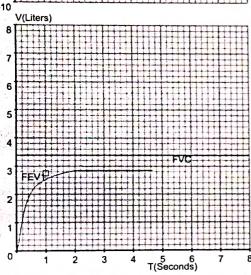
MIA CEMENT (BHARAT) LTD Umsoo Mootang, Thangskai (Vill), East Jaintia Hills District, Meghalaya-793210

AISHU ROY ears / Male / Ht 169 Cms /53 Kgs / Smoker

FVC TEST Date; 20-04-2024 (T1) Pred Eqn : CLARITY Ref By : NONE Eth.Corr: 100

Temp: 0°C



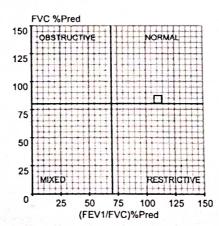


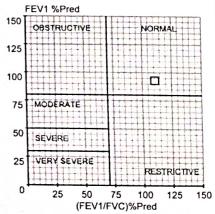
Pre Medication Report:
 Spirometery within Normal range as FVC% >= 80 And

FEV1/FVC% > 70

- Pre COPD Severity Report: COPD Severity within Normal range

Parameter	T	Pred	Pre	Pre%	Post	Post%	Imp%
FVC	[L]	3.37	2.84	84		-	
FEV1	[L]	2.75	2.56	93	-	_	
FEV.5	[L]		2.12				
FEV3	[L]	3.27	2.56	78			
FEV6	[L]		_				
PEFR	[L/s]	8.71	6.87	79			
FEF25-75	[L/s]	3.83	4.36	114	_		
FEF75-85	[L/s]		1.34				
FEF.2-1.2	[L/s]	6.70	5.94	89		-	
FEF25%	[L/s]	7.81	7.10	91		-	
FEF50%	[L/s]	5.53	4.90	89			
FEF75%	[L/s]	2.62	1.75	67	-		
FEV.5/FVC	[%]		74.87	_	-		
FEV1/FVC	[%]	81.49	90.08	111			
FEV3/FVC	[%]	97.00	90.08	93			
FEV6/FVC	[%]		-	-			
FEV1/FEV6	[%]	-	-	-	-		
FET	[S]		4.63			-	-
ExplTime	[S]		0.10	-		-	
LungAge	[Y]	42.00	45.00	107		-	
FIVC	[L]		3.31	-	-	,	
PIFR	[L/s]		6.24				
FIF25%	[L/s]		7.17				
FIF50%	[L/s]		4.35			-	
FIF75%	[L/s]	_	1.14				
FIV.5	[L]	-	0.94				
FIV1	[L]		3.18	-			
FIV3	[L]		-	-			
FIV.5/FIVC	[%]		28.46	-		-	
FIV1/FIVC	[%]	-	96.27	-			
FIV3/FIVC	[%]		-		-		





- Doctor's Comments :

DALMIA CEMENT (BHARAT) LTD, MEGHALAYA Medical Laboratory Report, OHC Name: Bishu Roy Age: 42 Gender: Male Report Date: 20 /4/24
Sample collection Date: 20 /4/24
Lab Report No: 2 Test Name Results Unit Normal Range Blood Blood glucose (Random) 130 mg/dL < 140 AFB Staining 2 Seen/Not seen

:End of Report:



Dalmia Cement (Bharat) Ltd.
Umsoo Mootang, Thangskai (Vill), East Jaintia Hills District, Meghalaya-793210

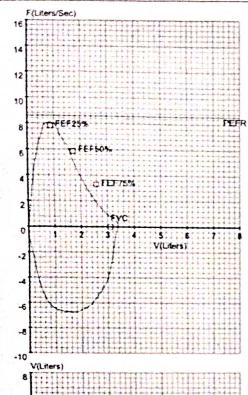
428 - MILON SINHA

22 Years / Male / Ht 158 Cms /54 Kgs / Non-Smoker

FVC TEST Date: 04-04-2024 (T1)

Pred Eqn : CLARITY Ref By : NONE

Eth.Corr: 100



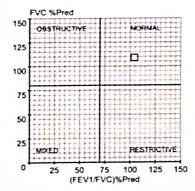
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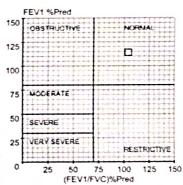
- Pre Medication Report : Spirometery within Normal range as FVC% >= 80 And FEV1/FVC% > 70

- Pre COPD Severity Report: COPD Severity within Normal range

- Doctor's Comments :

Parameter		Pred	Pre	Pre%	Post	Post%	Imp%
FVC	[L]	3.10	3.39	109	-		-
FEV1	[L]	2.73	3.11	114			-
FEV.5	[L]	-	2.54	-		-	-
FEV3	[L]	3 01	-	-		-	-
FEV6	[L]	-	-	-	-		-
PEFR	[L/s]	8.63	8.15	94	-		-
FEF25-75	[L/s]	4.52	5.35	118	-	-	-
FEF75-85	[L/s]		1.66	-			-
FEF.2-1.2	[L/s]	7.50	7.03	94	-	1-	-
FEF25%	[L/s]	7.82	9 22	118	-	-	-
FEF50%	[L/s]	5 85	5.83	100			-
FEF75%	[L/s]	3.29	2.08	63		-	-
FEV.5/FVC	[%]	~	75.01	-			-
FEV1/FVC	[%]	87.94	91.73	104			-
FEV3/FVC	[%]	97.00	-	-	4-	-	-
FEV6/FVC	[%]	-	-	_		-	-
FEV1/FEV6	[%]	400			-	-	
FET	[S]	**	1.71	-	-	-	-
ExplTime	[S]		0.17	-		-	-
LungAge	[Y]	22.00	19.00	86	-	-	-
FIVC	[L]	-	3.38	-	-		-
PIFR	[L/s]	**	6.77	-	-	-	-
FIF25%	[L/s]		9.17	-	-		
FIF50%	[L/s]	-	6.99	-	-	-	-
FIF75%	[L/s]	-	2.88	-	-	-	-
FIV.5	[L]		0.66	-	-	-	-
FIV1	[L]	_	3.28	-	-	-	-
FIV3	[L]	-	-	-	~	-	-
FIV.5/FIVC	[%]		19.64	-		-	-
FIV1/FIVC	[%]	-	96.83	-	-	-	
FIV3/FIVC	[%]	_	-		-		





Dr. Ramanand Prasad

DALMIA CEMENT (BHARAT) LTD, MEGHALAYA Medical Laboratory Report, OHC Milon Sinha Report Date : 4/4/24 Age : 414/24 224 Sample collection Date : Gender: Lab Report No : make SI. No. Test Name Results Unit Normal Range Blood Blood glucose (Random) 1 111 mg/di < 140 AFB Staining Seen/Not seen

and of heport.



Row Labels	Sum of Amount
Enviroment Monitoring	888498
NOC Cement Plant	79515
Pollution Control	1279046
Rates & Taxes	649927
Grand Total	2896986