

cement! sugar! refractories! power!

FUTURE TODAY ARY/MOEF/Cement & CPP/EC/22-23/126

26.11.2022

To

The Director,

Ministry of Environment, Forest and Climate Change Regional Office (SEZ), 1st & 2nd Floor, Handloom Export Promotion Council, 34, Cathedral Garden Road, Nungambakkam, Chennai - 34.

Respected Sir,

Sub: Half Yearly Environmental Clearance Compliance Report - Apr'22 to Sep'22 of Dalmia Cement (Bharat) Limited, Govindapuram Village, Ariyalur.

Ref: F,No J-11011/751/2007-IA II(I), dated 19.06.2008.

We hereby submit the Half yearly environmental clearance compliance report for "Cement & Captive Power Plant" along with the following annexures for the period from April 2022 to September 2022.

- a) Summary report of Stack emission & Noise monitoring Annexure: 1
- b) Summary of Ambient air quality Annexure: 2
- c) Ambient Air quality survey report from NABL accredited lab Annexure:3
- d) Green belt development Annexure: 4
- e) Ground water clearances from State Ground and Surface Water Resources Data Centre - Annexure: 5
- f) CSR activities Annexure: 6
- g) Environmental Clearance published in Newspapers Annexure: 7
- h) Stack emission real time data display in entry gate Annexure: 8
- i) Awards & Accolades Annexure: 9

Kindly acknowledge the receipt of the same.

Thanking you

Yours faithfully

For Dalmia Cement (Bharat) Limited, Ariyalur

l'Robert Unit Head

Encl: As stated above.

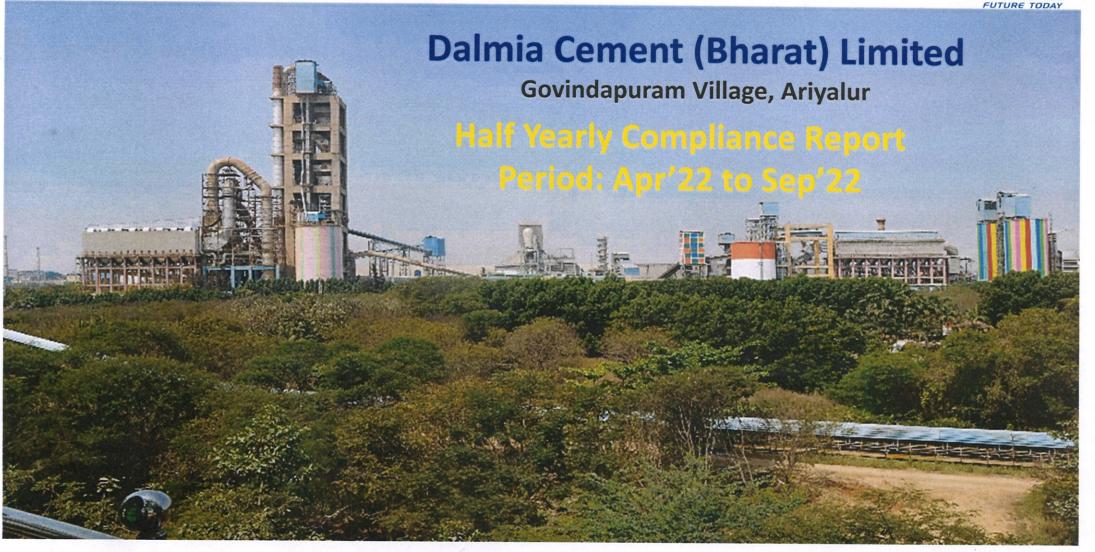
CC: 1. The Joint Chief Environmental Engineer, TNPCB, Trichy - 620 015.

2. The District Environmental Engineer, TNPCB, Ariyalur - 621 707.

Dalmia Cement (Bharat) Limited

27.85 வாரியம், அ Thamaraikulam, Ariyalur - 621 705, Tamil Nadu, India. W www.dalmiacement.com GIN: U65191TN1996PLC035963 Registered Office: Dalmiapuram, Dist. Tiruchirapalli - 621 651, Tamil Nadu, India. A Dalmia Bharat Group company, www.dalmiabharat.com









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Dalmia Cement (Bharat) Limited, Ariyalur

Status of compliance stipulated in Environmental Clearances (For the period of Apr 2022 to Sep 2022)

Ref: MoEF Letter No J-11011/751/2007-IA II (I) dated 19th June, 2008.

Sl. No	Conditions	Compliance
A	Specific Conditions	
i	Continuous stack monitoring facilities to monitor gaseous emissions from all the stacks shall be provided and limit of SPM shall be controlled by installing adequate air pollution control system Viz. Electrostatic precipitator (ESP) to cooler and captive power plant and bag house /bag filters etc. to other plants within 50 mg/Nm³ from the cement plant and 100 mg/Nm³ from captive Power Plant and data submitted to the Ministry's regional office at Bangalore, TNPCB and CPCB regularly. Raw meal, Clinker and fly ash shall be stored in silos.	Complied with. Installed Online Continuous Emission Monitoring Systems in all stacks (Cement mill, Coal mill, Cooler, Raw mill/kiln & Boiler of power plant) and following air pollution control systems were installed & maintained to control the emission levels well within the limits of 30 & 50 mg/Nm³; 1. Cement mill - Bag house, 2. Kiln/Preheater - Bag house, 3. Coal mill - Bag house 4. Cooler - ESP & 5. CPP- ESP. Stack monitoring is being carried manually every month and Quarterly through NABL accredited labs and half yearly by TNPCB. The Monitoring report is being submitted regularly to MoEF on half yearly basis & to TNPCB on monthly basis. Raw meal, clinker and dry fly ash were stored in concrete silos. Refer Annexure: 1 for Ambient Air Quality, Fugitive Emission & Stack emission report from NABL accredited lab.
ii	Secondary fugitive emissions shall be controlled and shall be within the prescribed limits and regularly monitored. Guidelines/code of practice issued by the CPCB in this regard should be followed. The Company shall install adequate dust collection and extraction system to control fugitive dust emissions at various transfer points, raw material handling (unloading, conveying, transporting, stacking), Vehicular movement, bagging and packing	Complied with. Secondary fugitive emissions are controlled by providing closed conveyors and storage sheds. Half yearly fugitive emission monitored through accredited labs & quarterly once internally. Fugitive emission guidelines issued by CPCB is been complied with. Dust extraction system provided at transfer points, raw material handling (Unloading, conveying, transporting, stacking) and packing areas to control fugitive dust. Water sprinkling carried out around stockyard, loading & unloading area, haul roads and other predominant places to control fugitive dust. Road sweeping carried out through sweeping machines daily. Also vacuum sweeping machines is

	areas etc. Asphalting/concreting	being used for sweeping spilled cement on shop
	of roads and water spray all	floor and recycled back.
	around the stockyard and loading	Covered sheds provided for raw materials like
	/unloading areas shall be carried	crushed limestone, Coal, petcoke, Alternative fuels,
	out to control fugitive emissions.	Fire clay, gypsum and wet Fly ash. Raw meal,
	Covered sheds for storage of raw	Clinker, Cement & dry Fly ash are stored in silos
	materials and fully covered	with bag filters.
	conveyers for transportation of	All belt conveyors were fully closed.
	materials shall be provided.	
iii	Efforts shall be made to reduce	Complied with.
	impact of the transport of the raw	We are getting limestone from Perianagalur,
	materials and end products on the	Kallakudi, Kavandukuruchi and Periyathirukonam
	surrounding environment	mines and the transportation enroute has some
	including agricultural land.	agricultural lands and settlements. However, so far
	morading agricultural land.	no complaints have been received from villages.
		Also all the raw materials vehicles are covered with
		tarpaulin cover during transportation.
iv	Total ground water requirement	Complied with.
	shall not exceed 2,500 m ³ /day.	The total ground water requirements not exceed
	No surface water shall be used.	2500 m ³ /day and the present water consumption is
	All the treated wastewater treated	$1600 \text{ m}^3/\text{day}.$
	in a neutralized plant shall be	No surface water is used for the plant operations.
	recycled and reused in the cement	Treated waste water from the neutralization plant is
	Plant for cooling purpose and/or	recycled back into cement process and also in dust
	for dust suppression, green belt	suppression.
	development and other plant	Domestic waste water generated is treated in the
	related activities etc. No process	STP and treated water is used for gardening
	Waste water shall be discharged	purpose.
	outside the factory premises and	No process water is discharged outside and Zero
	zero discharge shall be adopted.	discharge condition is maintained.
	Domestic treated effluent shall be	dio naige continue a same a sa
	used for greenbelt development	
	within the plant and colony area.	
v	Permission for the drawl of 2,500	Complied with.
	m ³ /day ground water shall be	Permission for Ground water withdrawal for 1620
	obtained from the state Ground	m ³ obtained from State Ground and Surface water
	Water Board/Central Ground	resources data center, valid still 21.02.2023.
	Water Authority (SGWB/CGWA)	
	and all the recommendations of	
	the SGWB/ CGWA shall be	
	followed	
vi	All the cement dust collected	Complied with
31.00	from pollution control devices	Cement dust collected from pollution control
	like ESPs, bag house, bag filters	devices is recycled back in the process.
	etc. shall be recycled and reused	Fly ash from Captive Power Plant is used for
	in the process and used for	making PPC.
L	III the process and asea for	naking 11 0.

	cement manufacturing Fly Ash from Captive power plant shall be	The bottom ash is collected in form of dry ash and the same is completely used in cement
	used for manufacturing Pozzolana	manufacturing.
	Portland Cement (PPC). Bottom	Some portion of refractory bricks is used for garden
Light special control of the control	ash shall be used as boiler bed	decoration and others were utilized in developing
	material. Refractory bricks shall	internal roads.
	be disposed off in environment-	No ETP sludge is generated as neutralization method is adopted and sludge generated from STP
	friendly manner. ETP Sludge shall be disposed off at landfill	is used as manure for green belt development.
	site. STP Sludge shall be used as	Used oil & grease generated from the process is
	manure for green belt	collected and disposed to the authorized recyclers
	development. Waste oil and	and used lead acid batteries is been send back to
	grease and scrapped automobiles	manufacturers.
	batteries shall be sold to	
	authorized recyclers/re-processors	
	only.	
vii	The Project authorities shall	Complied with.
	adhere to the provisions stipulated	All the fly ash generated from Captive Power Plant is completely used in the cement manufacturing
	in the fly ash Notification, 1999 as amended in 2003.	process.
viii	Efforts shall be made to use fly	Complied with.
\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	ash maximum in making	The entire fly ash generated is used in the cement
	Pozzolana Portland cement (PPC)	manufacturing process. Percentage of fly ash used
		in PPC for FY 22-23 up to Sep'22 is 33.87%.
ix	An effort shall be made to use of	Complied with.
	high calorific hazardous waste in	Installed Full fledge alternative fuel feeding system
	the cement kiln and necessary	for Co-Processing Hazardous/Non hazardous waste
	provision shall be made accordingly	in Kiln with shredders, magnetic separators, screen, extractor and closed belt feeding system. Presently,
	accordingry	co-processing Non Hazardous waste like Tyre
		chips, Plastics, Refuse Derived Fuel, Dry municipal
		waste, foot ware waste and Hazardous waste like
		Resin, Textile ETP Sludge, Paint sludge & Oil rags
		in Cement kiln by getting necessary authorization
		from TNPCB.
х	Efforts shall be made to use low	Complied with.
	grade lime, more fly ash and solid	Low grade Limestone is blended with High grade
	waste in the cement	limestone and used for Cement manufacturing. Also, co-processing Textile ETP sludge as an
	manufacturing.	alternative raw material for replacement of
		limestone.
		Maximum quantity of fly ash is used for
		manufacturing Pozzolana Portland cement. Further,
		high calorific value hazardous & non Hazardous
		wastes co-processed in the cement kiln.
<u></u>		931

xi	As proposed, green belt shall be	Com	olied with.	
	developed in 33% area in and		•	al area is covered with
	around the project site as per as			19,909 nos of trees were
	the CPCB guidelines to mitigate			premises in consultation
	the effects of air emissions in			and with 96% survival
	consultation with local DFO	rate.		
xii	All recommendations made in the		olied with.	
	Corporate Responsibility for	S.No		Compliance
	Environment Protection (CREP)	1	Cement Plants,	Air Pollution Control
	for cement plants shall be	^	which are not	Devices installed &
	implemented.		complying	maintained in order
	impromotion.		with notified	to meet the emission
			standards, will do	norms of <30
			the following	mg/Nm ³ . Regular
			to meet the	checking of Bags is
			standards:	carried out based on
			• Augmentation of	
			existing Air	any damage is
			Pollution Control	observed, it is
			Devices-by July	replaced
			2003	immediately. Also
			• Replacement of	
			existing Air	shutdown/stoppages,
			Pollution Control	Bag house chambers
			Devices-by July	is inspected and
			2004	maintained.
		2	Cement Plants	The particulate
			located in critically	emissions from
			polluted or urban	pollution control
			areas (including	equipment's designed
		:	5km distance	to meet the emission
			outside urban	norms of <30
			boundary) will	mg/Nm³. Regular
			meet 100 mg/Nm ³	checking of Bags is
			limit of particulate	being carried out
			matter by	based on the DP
			December 2004 and	value and if any
			continue working to	damage is observed,
			reduce the emission	it is replaced
			of particulate	immediately. Also
			matter to 50	during every
			mg/Nm ³	shutdown/stoppages,
				Bag house chambers
				is inspected and
				maintained.

The new cement The particulate kilns to be accorded emissions from NOC/Environmenta pollution control
1 Clearance w.e.f o1.04.2003 will the emission norms meet the limit of 50 mg/Nm³ for particulate matter emissions
4 CPCB will evolve The Load based load based emission for standards by Particulate matter from Raw mill, kiln and pre-calciner system put together is less than 0.125 kg/ton of clinker.
The emissions levels will evolve SO ₂ and NO _x emission well within the standards by June 2004 by CPCB. We also installed Duoplex burner (low NO _x) in kiln main stack
The Cement industries will control fugitive emissions from all the raw material and products storage and transfer points by December 2003. However, the feasibility for the control of fugitive emissions from limestone and coal storage areas will be decided by the National Task Force (NTF). The NTF will submit its recommendations within three
months. limestone, Imported

			Coal, petcoke,	П
			Alternative fuels,	
			Lignite, Wet Fly ash	
			and Gypsum	
			4. Raw meal, Clinker,	
			Cement and dry fly	
			ash stored in Silos	
			with bag filters.	
			5. Cement packing	
			rotors/machines	
			equipped with dust	
			extraction system	
			with adequate	
			ventilation.	
			Also, we complied	
		T-Para-	with respect to the	
			CPCB guidelines on	
			fugitive emission	
			control vide	
			PROBES/118/2007.	
			dated 06.07.2007.	
	7	CPCB, NCBM, BIS	We are using	
		and Oil refineries	imported/domestic	
		will jointly prepare	pet coke in the	
		the policy on use of	manufacturing	
		petroleum coke as	process by obtaining	
		fuel in cement kiln	necessary permission	
		by July 2003.	apart from imported	
			coal and Lignite as a	
			fuel in cement kiln.	
	8	After performance	The Continuous	
		evaluation of	Emission and	
		various types of	Effluent monitoring	
		continuous	systems has been	
		monitoring	installed and readings	
		equipment and	are connected to	
		feedback from the	TNPCB CAREAIR	
		industries and	Centre, Chennai &	
		equipment	also to CPCB Server	
		manufacturers,	through online.	
		NTF will decide	Further, the analyzers	
		feasible unit	are calibrated	
		operations/sections	regularly with respect	
		for installation of	to their functioning,	
		continuous	drift, linearity as per	
	, ,		1 0000 1111	П
1		monitoring	the CPCB guidelines.	

9	equipment. The industry will install the continuous monitoring systems (CMS) by December 2003 Tripping in Kiln ESP to be minimized by July 2003 as per the recommendations of NTF	Tripping of ESP is minimized by taking all the necessary precautions like water spraying on flue gas and interlocking system with fan main drive.
10	Industries will submit the target date to enhance the utilization of waste material by April 2003.	Every monthly the quantity co-processed in kiln is being intimated to TNPCB and yearly to CPCB. Installed Alternative fuel feeding system consisting of Shredders, Magnetic separator, Extractor, hopper, Closed belt conveyor with all safety system. Co-processing emission monitoring carried out with NABL accredited labs half yearly & reports are summited to TNPCB.
11	NCBM will carry out a study on hazardous waste utilization in cement kiln by December 2003	High Calorific Hazardous and non- hazardous waste is co-processed/co- incinerated in the cement kiln.
12	Cement industries will carry out feasibility study and submit target dates to CPCB for co-generation of	Entire cooler hot gas is being used to dry raw materials in vertical raw mill as well as in the vertical cement mill.

		power by July 2003.
xiii	Recommendation of the state forest department regarding impact of proposed plant on surrounding reserve forests Viz. Vannankurichchi RF (9.5Km, E), Sedalaradi RF (14Km, NE), Manager RF(13Km, ESE), Vilangudi RF (14Km, SE) shall be obtained and implemented	Complied with. District forest officer had given NOC stating that there is no rare, endangered or threatened species of the plant and animals in or near the reserved forest. As per discussion with Forest department, the following plants viz Neem, Gulmohar, Casualina, Pungamia Glubra, Cassia, Bouhiania, etc were planted in our plant premises.
xiv	No operation of the cement plant shall be carried out till the environmental clearance for the mining project is obtained from the ministry of environment and forests and a copy submitted to the ministry's regional office at Bangalore.	Complied with. The Cement plant is commissioned only after obtaining the environmental clearance for Limestone mines. The required limestone is sourced from own mines located at various locations and there is no single captive mine for this project.
В	General Conditions	
i	The Project authority shall adhere to the stipulations made by T.N. Pollution control Board (TNPCB) and State Government.	Complied with. All the stipulations made by Tamil Nadu Pollution Control Board and State Government is complied.
ii	No further expansion or modification of the plant shall be carried out without prior approval of this Ministry	Noted and complied with. As per MoEF&CC S.O 980(E) dated 21.03.2021, we uploaded the information on PARIVESH Portal on 25.06.2021 for 'No increase in Pollution Load' towards modernization and expansion of Cement plant for production of Clinker from 2.0 to 2.5 MTPA and Cement from 3.0 to 4.0 MTPA and obtained acknowledgement with Single Window No. SW/1545/2021. Further, No Increase in Pollution Load Certificate obtained from TNPCB Pollution Load Assessment Committee vide Lr. No T4/TNPCB/F.0038/ARY/2021, dated 11.03.2022. Accordingly, Consent to Establishment obtained from TNPCB under Air and Water act and modernization and expansion work is being carried out.
iii	The gaseous and particulate matter emissions from various units shall conform to the standards prescribed by the T.N. Pollution control Board. At no time, the particulate emissions	Complied with. Online Emission Monitoring system is installed in all stacks and the monitored data is directly transmitted to Care Air Centre, TNPCB & CPCB. The Gaseous and particulate emissions from all the stacks are well within the prescribed norms.

	from the cement plant shall exceed TNPCB limit. Interlocking facility shall be provided in the pollution control equipment so that in the event of the pollution control equipment not working, the respective unit(s) is shut down automatically.	All necessary precautions like maintenance of Bag filters have been taken to ensure that the particulate emissions are within the prescribed limits. Interlock facilities provided. If the emission level of Raw mill/kiln, Cooler, Coal mill, Cement mill, CPP boiler goes above the prescribed norms, the ID fans gets tripped automatically and the unit will be tripped.
iv	One ambient air quality monitoring station shall be installed in downward direction. Ambient air quality including ambient noise levels shall not exceed the standards stipulated under EPA or by the state authorities. Monitoring of ambient air quality and stack emissions shall be carried out regularly in consultation with TNPCB and report submitted to the TNPCB quarterly and to the Ministry's Regional office at Bangalore - Half yearly	Complied with. Continuous Ambient Air Quality Monitoring Stations have been established in downwind and leeward direction. Necessary precautions like water spraying, regular cleaning of roads through sweeping machines carried out to control dust levels. Acoustic enclosures provided to control noise levels. Ambient noise, ambient air and stack emission monitoring is being monitored Quarterly through accredited labs. The Monitoring report is being submitted regularly to MoEF on half yearly basis & to TNPCB on monthly basis.
V	The company must harvest the rain water from the rooftops and storm water drains to recharge the ground water and use the same water for the various activities project to conserve fresh water.	Complied with. Roof top rain water harvesting structures provided as well as storm water drainage facilities to recharge ground water. The storm water is routed to two rain water harvesting pond (Logistic pond: 44000 m³ and Enviro park 9000 m³) of total capacity 53000 m³. In addition to this, two recharge shaft bore well were constructed near logistic Rain water harvesting pond and Raw mill bore well area. The harvested rain water is used for Green belt development and dust suppression activities.
vi	The company shall undertake eco-development measures including community welfare measures in the project area.	Complied with. Eco development measures like de-silting of village ponds, Check dams, Provision of Drinking water facility, Sanitation, Community cleaning and Rain water harvesting structures in schools carried out in nearby community. For community welfare measures, medical camps, fuel efficient stoves, solar lanterns, Livelihood development through skill trainings and awareness in schools & Villages carried out regularly.

Vii	The overall noise levels in and around the plant area shall be kept well within the standards (85 dBA) by providing noise control measures including acoustic hoods, silencers, enclosures etc. on all source of noise generation. The ambient noise levels shall conform to the standards prescribed under Environmental	Complied with. Overall noise levels in and around the plant area are well within the TNPCB norms. Acoustic hoods and silencers provided in the noise generating equipment's. Ambient noise levels are being monitored internally every month and Quarterly once through external laboratory during day & night time and the levels are within the prescribed limits. Refer Annexure: 1 for the Noise monitoring report.
	(protection) Act, 1986 Rules, 1989 viz 75 dBA (day time) and 70 dBA (night time).	
Viii	Adequate rainwater harvesting measures shall be adopted to recharge the ground water.	Complied with. Roof top rain water harvesting structures provided as well as storm water drainage facilities to recharge ground water. The storm water is routed to two rain water harvesting pond (Logistic pond: 44000 m³ and Enviro park 9000 m³) of total capacity 53000 m³. In addition to this, two recharge shaft bore well were constructed near logistic Rain water harvesting pond and Raw mill bore well area.
ix	Proper housekeeping and adequate occupational health programmes shall be taken up	Complied with. Good housekeeping practice followed and the same is monitored through daily checklist, monthly audits by zone members and top management and quarterly SHE audits. Various Occupational health programmes and awareness campaign like yoga, personal and industrial hygiene, food habits, hand washing, health tips, first aid training, medical camp, fitness etc carried out and records are maintained.
x	A separate environmental management cell to carry out various management and monitoring functions shall be set up under the control of Senior Executive.	Complied with. A full fledge separate environmental cell is in place with two qualified environment professional and a Horticulturist under the direct supervision of Unit Head. Also we have formed department wise SPOC's persons to monitor the Environmental aspects/impacts for taking effective corrective measures through Environment Management programme (EMP).
xi	As proposed, Rs.17.45 Cores and Rs.4.85 Crores/annum shall be earmarked towards the capital cost and recurring cost/annum	Complied with. Capital cost invested for the pollution control measures is 45 crore. Every year, for environmental protection budget is

	earmarked for environment pollution control measures and judiciously used to implement the conditions stipulated by the Ministry of Environment and Forests as well as the state Government. The funds so provided shall not be diverted for any other purposes.	allotted and wisely spent. In FY 22-23, around 75.0 lakhs utilized as recurring cost for general activities and around 2265.45 lakhs towards environment & Energy improvement capex projects. Also additional funds are being allocated separately for implementing the conditions stipulated by MoEF & PCB from time to time. The funds provided for environmental pollution control measures is not be diverted for other purpose
xii	The regional Office of this Ministry at Bangalore / CPCB / TNPCB shall monitor the stipulated conditions. A six monthly compliance report and the monitored data along with statistical interpretation shall be submitted to them regularly.	Complied with. Half yearly compliance report is being submitted to MoEF Regional office & TNPCB. The last compliance report was submitted vide our letter no ARY/MoEF/Cement & CPP/EC/22-23/32 dated 16.05.2022.
xiii	The project authorities shall inform the Regional Office as well as Ministry, the date of Financial closure and final approval of the project by the concerned authorities and the date of commencing the land development work.	Complied with. Term loan sanctioned on 25.08.2008 & ECA sanctioned on 06.11.2008. For Cement plant, Date of commencement: 28.07.2008 & commissioning: Feb 2009. For Captive Power plant, Date of commencement: 10.09.2008 & commissioning: Aug 2010
ivx	The project proponent shall inform the public that the project has been accorded environmental clearance by the Ministry and copies of the clearance letter are available with the T.N. Pollution control Board / Committee and may also be seen at website of the Ministry of Environment and 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 Bangalore.	Complied with. Environmental clearance had been submitted to TNPCB office and also available in the website of the Ministry of Environment and Forests. Advertisement regarding obtaining of Environment clearance had been published in The Hindu paper and Local Tamil newspaper (Dinamani) on 01/07/08 and same has been submitted to MoEF regional office.

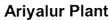
Additi	onal conditions issued by MoEF on	06.04.2011, Ref.No: J-11013/41/2006-IA. II(I)
i	Continuous monitoring of stack	Installed Continuous Emission Monitoring System
	emissions as well as ambient air	in all stacks for monitoring particulate emission and
	quality (as per notified standards)	two no's of Continuous Ambient Air Quality
	shall be carried out and	Monitoring System. The online monitoring data is
	continuous records maintained.	connected to the CARE AIR, TNPCB and to CPCB
	Based on the monitored data,	server. The data are being monitored daily and the
	necessary corrective measures as	emission levels are well within the limits. Also,
	may be required from time to	manual monitoring report is being submitted half
	time shall be taken to ensure that	yearly to MoEF regional office & the compliance
	the levels are within permissible	report along with monitoring results are uploaded
	limits. The results of monitoring	in our website. The real time data is displayed at
	shall also be submitted to the	the main gate.
	respective Regional office of	
	MoEF regularly. Besides, the	
	results of monitoring will also be	
	put on the website of the	
	company in the public domain.	
ii	The six monthly monitoring	We are updating the compliance condition
	reports as well as the monitored	stipulated in Environment clearance regularly in the
	data on various parameters as	website.
	stipulated in the environment	Website address: www.dalmiacement.com (under
	clearance conditions shall be put	Sustainability tab click Environmental Clearances
	on the website of the company	and compliances for plant).
	and also regularly updated. The	Also the monitoring data is submitted to TNPCB on
	monitored data shall also be	monthly basis & MoEF on half yearly regularly.
	submitted to respective state	
	pollution control board/UTPCCs	
	and the regional office of MoEF.	Deltine Orline monitorine detain is displayed in
iii	The ambient air quality data as	Real time Online monitoring data's is displayed in
	well as the stack emission data	Public domain at the Main gate of the plant.
	will also be displayed in public	
	domain at some prominent place	
	near the main gate of the	
	company and updated in real time.	
	time.	



Annexure - 1

ANNEXURE - 1

Dalmia Cement (Bharat) Limited



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Department : Environment

Plant - Cement & CPP

SUMMARY REPORT OF STACK EMISSION (PM)

PERIOD: Apr 2022 - Sep 2022

UNIT - mg/Nm³

	Kiln/Ra	w mill	Clinker	cooler	Coal	mill	Ceme	nt mill	Boiler	ID fan
Month	Observed Level	Norms	Observed Level	Norms	Observed Level	Norms	Observed Level	Norms	Observed Level	Norms
Max	14.4		24.6		23.9		23.3		33.5	-
Min	5.5	90	13.4	20	17.6	30	11.6	30	20.7	50
Avg	10.2	30	21.9	30	21.1	30	17,2	4,53,5	26.7	(3)
St. Deviation	2.9		4.3		2.4		4.6		6.4	

SUMMARY REPORT OF STACK EMISSION (SO $_2$ & NO $_x$) PERIOD: Apr 2022 - Sep 2022

UNIT -- mg/Nm³

	SO ₂ Emission				NOx Emission				
Month	Kiln/Raw mill		Boiler ID fan		Kiln/Raw mill		Boiler ID fan		
	Observed Level	Norms	Observed Level	Norms	Observed Level	Norms	Observed Level	Norms	
Max	2.9		264.5	600	592.5	800	42.8	300	
Min	1.0	100	192.4		328.6		9.8		
Avg	2.3	100	236.9		495.8		31.1	000	
St. Deviation	0.7		38.9		112.8		18.5		

SUMMARY OF NOISE MONITORING REPORT

PERIOD: Apr 2022 - Sep 2022 UNIT - dB (A)

DAY & NIGHT TIME

Month	Northeast (Near	-	Bounda crusher	heast ary (Near Transport tem)	(Near Li	Boundary mestone ker)	Bounda	nwest ary (Near tation)	Permiss	ible Limit
	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night
Max	54.2	43.1	53.7	43.9	53.9	43.5	54.1	43.4		
Min	50.0	40.4	50.8	39.6	50.0	40.7	50.3	41.6	55	45
Avg	52.2	42.0	52.3	41.6	52.3	42.0	52.1	42.4		
St. Deviation	1.4	1.0	1.2	1.5	1.0	1.1	1.4	0.7		

B.R.Prasannakumar

Manager - Environment



Annexure - 2

ANNEXURE - 2

Dalmia Cement (Bharat) Limited

Ariyalur Plant

Department : Environment

Plant - Cement & CPP

Dalmia.

SUMMARY REPORT OF AMBIENT AIR QUALITY
PARTICULATE MATTER (PM,0)
PERIOD: Apr 2022 - Sep 2022

UNIT - µg/m³

Month	Eastern Boundary near HR building	SE - Boundary near Crusher Transport system	SW - Boundary near Limestone Stacker	Western boundary near 110KVA substation	NW - Boundary compound wall	NE - Boundary near CPP	Permissible Limit
Max	68.4	60.5	72.4	64.8	76.2	72.8	
Min	60.3	53.8	64.8	60.8	69.2	64.9	400
Avg	63.9	57.6	68.8	62.6	72.3	69.3	100
St. Deviation	2.8	2.3	2.7	1.5	2.7	3.1	

SUMMARY REPORT OF AMBIENT AIR QUALITY PARTICULATE MATTER (PM_{2.5})
PERIOD: Apr 2022 - Sep 2022

UNIT - µg/m³

Month	Eastern Boundary (Weigh bridge)	SE - Boundary near Crusher Transport system	SW - Boundary near Limestone Stacker	Western boundary near substation	NW - Boundary compound wall	NE - Boundary near CPP	Permissible Limit
Max	32.4	27.9	33.6	30.1	38.6	36.5	
Min	25.8	24.3	30.4	24.7	31.3	29.1	60
Avg	29.8	26.3	32.2	27.8	35.5	33.2	00
St. Deviation	2.7	1.5	1.2	2.0	2.6	2.6	

SUMMARY REPORT OF AMBIENT AIR QUALITY SULPHUR DIOXIDE (SO₂) PERIOD: Apr 2022 - Sep 2022

UNIT - µg/m³

Month	Eastern Boundary near HR building	SE - Boundary near Crusher Transport system	I SW - Roundary near:	Western boundary near 110KVA substation	NW - Boundary compound wall	NE - Boundary near CPP	Permissible Limit
Max	30.4	29.5	34.6	33.6	36.5	37.7	
Min	22.8	24.5	27.1	29.7	32.7	29.7	20
Avg	25.6	26.1	30.8	31.1	34.0	33.7	80
St. Deviation	3.1	1.8	2.6	1.4	1.5	3.1	

SUMMARY REPORT OF AMBIENT AIR QUALITY
NITROGEN DIOXIDE (NO_x)
PERIOD: Apr 2022 - Sep 2022

UNIT - µg/m³

Month	Eastern Boundary (Weigh bridge)	SE - Boundary near Crusher Transport system	SW - Boundary near Limestone Stacker	Western boundary near substation	NW - Boundary compound wall	NE - Boundary near CPP	Permissible Limit
Max	30.2	32.4	33.4	34.9	36.5	37.4	
Min	23.7	27.6	29.7	27.8	31.9	29.5	80
Avg	27.2	29.8	31.4	31.1	34.7	34.3	00
St. Deviation/	2.2	1.7	1,4	2.4	1.8	3.1	•

B.R.Prasannakumar Manager - Environment



Annexure - 3



Glens Innovation L

TEST REPORT

ULR No: TC858222000003310F

Report No

EN22070009-01

Report Date

12 July 2022

Customer Name

SAMPLE DRAWN BY LABORATORY M/S. Dalmía Cements (Bharat) Ltd

Customer Address

SF-630 Thamaraikulam Viilage, Ariyalur, Tamilnadu-621705

Sample Name

Ambient Air Quality

Sample Description

Ambient Air Quality

S unpling Date & Time

28 to 29 June 2022

Sample No

Note

EN22030071-08

09.35am to 09.35am

Sampling Location

Near HR Building

Sample Received on

04 July 2022

Sample Condition

Fit for Analysis

Test Started on

04 July 2022

Relative Humidity

58.1%

Test Completed on

12 July 2022

Sampling Procedure

IS 5182 °art V & XIV

Ambient Temperature

31°C

Test Results

Ilphur Dioxide as SO ₂ trogen Dioxide as NO ₂ urticulate Matter (PM 10) urticulate Matter (PM 2.5) cone as O ₃	IS 5182 (Part 2):2061 IS 5182 (Part 6):2006 IS 5182 (Part 23):2006 GL/EN/SOP/062	13.50 31.60 44.90	μg/m³ μg/m³	Requirement as per NAAQS Specification 80 80
rticulate Matter (PM 10) rticulate Matter (PM 2.5)	IS 5182 (Part 6):2006 IS 5182 (Part 23):2006	31.60 44.90	μg/m³	en e
rticulate Matter (PM 10) rticulate Matter (PM 2.5)	IS 5182 (Part 23):2006	44.90	-	ativa na producente proposal e e na a reproductiva producenta programma no programma na como esta de como esta
rticulate Matter (PM 2.5)	TO SEE CO. SECURITION OF THE PART PART PART OF THE PAR	Andrew Albert Stranger of Stranger Stra	μg/m³	and a produce that the second
The second secon	GL/EN/SOP/062	14 10	3. 1.67	
one as Os			µg/m³	and a second of the second
The state of the s	IS 5182 (Part 9):1974	Anna Cara Cara Cara Cara Cara Cara Cara C	·	• 60
ad as Pb	the state of the s	8DL(DL:20.0)	μg/m³	100
rbon Monoxide as CO (1 bour)	The second secon	the same of the sa	µg/m³	1
	I was a second of the second o	BDL(DL:1.14)	mg/m³	4
Compressed and the second of t	GL/EN/SOP/057	BDL(DL:2+10)	ug/m³	400
TO CHARLES THE PROPERTY OF THE PARTY OF THE	GL/EN/SOP/08	BLOULOG-4 D)		TOV
120 (a)Pyrene (Particulate Phase)	GL/EN-INS/SOP.700	The state of the s		and the second s
enic as As	Andrew Continues and Antonia a	The second section of the second seco		The state of the s
kel as Ni	The state of the s		ng/m³	-
	bon Monoxide as CO (1 hour) monia as NH3 izene izo (a)Pyrene (Particulate Phase) enic as As sel as Ni	IS 5182 (Part 22):2004	IS 5182 (Part 22):2004 BLQ(LOQ:0.002)	IS 5182 (Part 22):2004 BLQ(LOQ:0.002) Hg/m ³

: The above Sample complies as per NAAQS limit which is provided in the environmental protection Rule 3

(3B) Nov.2009, against the above tested parameter

: BDL: Below Detection Limit., DL: Detection Limit / NAAQS: National Ambient Air Quality Standard

BLQ-Below Limit of Quantification, LOQ-Limit of Quantification

End of Report

86/1 at Floor, Sri listhi Complex, Morugesen Street, Balavinayagar Nagat, Arushirekano, Chennal -- 600106.

Terms and Conditions:

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TEST REPORT

ULR No: TC858222000003303F

Report No

EN2207d009-02

Report Date

12 July 2022

SAMPLE DRAWN BY LABORATORY

Customer Name

M/S. Daimia Cements (Bharat) Ltd

Customer Address

SF-630 Thamaraikulam Village, Ariyalur, Tamilnadu-621705

Sample Name

Ambient Air Quality

Sample Description

Ambient Air Quality

IS 5182 Part V & XIV

Sampling Date & Time

28 to 29 June 2022

Sample No

EN22070009-02

09.50am to 09.50am

Sampling Location

Near 0 & M Colony

Sample Received on

04 July 2022

Sample Condition

Fit for Analysis

Test Started on

04 July 2022

Relative Humidity

58.1%

Test Completed on

12 July 2022

Sampling Procedure

Ambient Temperature

31°C

Test Results

SLNo	Test Name	Test Method	Results	Units	Requirement as per NAAQS Specification
1	Sulphur Dioxide as SO ₂	IS 5182 (Part 2):2001	18.10	μg/m³	80
2	Nitrogen Dioxide as NO ₂	IS 5182 (Part 6):2006	23.70	µg/m ³	80
3	Particulate Matter (PM 10)	IS 5182 (Part 23):2006	46.30	μg/m ³	and the first of t
4.	Particulate Matter (PM 2.5)	GL/EN/SOP/062	14.30	μg/m ³	100
5	Ozone as O ₃	IS 5182 (Part 9):1974	BDL(DL:20.0)	µg/m³	60
6	Lead as Ph	IS 5182 (Part 22):2004	BLQ(L00:0.002)		100
7	Carbon Monoxide as CO (1 hour)	IS 5182 (Part 10):1999	3DL(DL:1.14)	μg/m³	1
8	Ammonia as NH3	GL/EN/SOP/057	BDL(DL:20.0)	mg/m³	4
9	Benzene	GL/EN/SOP/09	B).Q(LOQ:4.0)	µg/m³	400
10	Benzo (a)Pyrene (Particulate Phase)	GL/EN-INS/SOP/09	BLQ(LOQ:0.03)	μg/m³	\$
11	Arsenic as As	IS 5182 (Part 22):2004	BLQ(L00:2.0)	ng/m³	*
12	Nickel as Ni	IS 5182 (Part 22):2004		ng/m³	A section of the sect
emarks	. The alarma Cample counting	, , , , , , , , , , , , , , , , , , ,	BLQ(LOQ:2.0)	ng/m³	•

: The above Sample complies as per NAAQS limit which is provided in the environmental protection Rule 3

(3B) Nov.2009, against the above tested parameter.

Note

: BDL: Below Detection Limit, DL: Detection Limit / NAAQS: National Ambient Air Quality Standard

BLQ-Below Limit of Quantification, LOQ-Limit of Quantification

End of Report

#6/1, ist Floor, Sn Intill Comptex, Muniges in Street, Balavinavegar Regar, Acumbakkam, Chanasi -- 60/1106.

terms and Considers:

The Test Respire testing below only to the issue served. The Test Report Shall not be represented in follow part without the written acquired of Sivit, * The test Remark be restained for more than 15 days from the day of the responsive properties report as responsive processes an excellent by the application regulation. The testination's forgone will be respected by the application regulation regulation for the process of the second of the process of the proce



TESTREPORT

ULR No : TC858222000003304F

Report No

EN22070009-03

Report Date

12 July 2022

SAMPLE DRAWN BY LABORATORY

Customer Name

M/S. Dalmia Cements (Bharat) Ltd

Customer Address

SF-630 Thamaraikulam Village Ariya'ır.Tamilnadu-621705

Sample Name

Ambient Air Quality

Sample Description

Ambient Air Quality

Sampling Date & Time

28 to 29 June 2022

Sample No

EN22070009-03

10.00am to 10.00am

Sampling Location

Sample Received on

Sample Condition

Near Steel Yard

Test Started on

04 July 2022

Fit for Analysis

Test Completed on

04 July 2022

Relative Humidity

58%

12 July 2022

Sampling Procedure

IS 5182 Part V & XIV

Ambient Temperature

31°C

Test Results

SLNo	Test Name	Test Method	Results	Units	Requirement as per NAAQS Specification
1	Sulphur Dioxide as SO ₂	IS 5182 (Part 2):20)1	11.50	Jig/m³	80
2	Nitrogen Dioxide as NOz	IS 5182 (Part 6):2006	18.80	µg/m³	
3	Particulate Matter (PM 10)	IS 5182 (Part 23):20(6	51.80	µg/m³	80
4	Particulate Matter (PM 2.5)	GL/EN/SOP/062	23.90	μg/m ²	60
5	Ozone as O ₃	IS 5182 (Part 9):1974	BDL(DL:20.0)	ид/m ³	100
6	Lead as Pb	IS 5182 (Part 22):2004	BLQ(LOQ:0.002)	hg/m3	1.0()
7	Carbon Monoxide as CO (1 hour)	IS 5182 (Part 10):1999	B9L(DL:1.14)	mg/m³	
8	Ammonia as NH ₃	GL/EN/SOP/057	BDL(DL:20.0)	μg/m³	400
9	Benzene	GL/EN/SOP/08	BLQ(L00:4.0)	μg/m³	400
10	Benzo (a)Pyrene (Particulate Phase)	GL/EN-INS/SOP/09	DLQ(LOQ:0,03)	ng/m³	
11	Arsenic as As	IS 5; 82 (Part 22):2004	BLQ(LOQ:2.0)	ng/m³	and the second of the second o
12	Nickel as Ni	IS 5182 (Part 22):2004	BLQ(LOQ:2.0)	ng/m²	

Note

The above Sample complies as per NAAQS limit which is provided in the environmental protection Rule 3

(3B) Nov.2009, against the above tested parameter, : BDL: Below Detection Limit., DL: Detection Limit / NAAQS: National Ambient Air Quality Standard

BLQ-Below Limit of Quantification, LOQ-Limit of Quantification

End of Report

#6/1,1st Floor, Sri tothi Complex, Murugesan Street, Balavicavagar Negar, Arumbakkam, Chengal - 600106.

Form and Compilion:

The Test Royal source only to the items sected. The Test Royal shall not be perceived in full or part without the united approval of RVR. The test down use not be reticated for ease than 15 days from the date of its ease of the result in the rease a counsed by the registration resultation. The interesting's Reservoirable and refer report is not very required to the resultance and will be not not by recitation registration and the resultance and



TESTREPORT

ULR No: TC858222009603305F

Report No

EN22070009-04

Report Date

12 July 2022

Customer Name

M/S. Dalmia Cements (Bharat) Ltd

Customer Address

SF-630 Thamaraikulam Village, Ariy:dur, Tamilnadu-621705

SAMPLE DRAWN BY LABORATORY

Sample Name

Ambient Air Quality

Sample Description

Ambient Air Quality

Near Circular stack

Sampling Date & Time

: 28 to 29 June 2022

Sample No

EN22070009-04

10.00am to 10.00am

Sampling Location

Sample Received on

04 July 2022

Sample Condition

Fit for Analysis

Test Started on

Relative Humidity

57.9%

Test Completed on

04 July 2022 12 July 2022

Sampling Procedure

15 5182 Part V & XIV

Ambient Temperature

31.6°C

Test Results

SI.No	Test Name	Test Method	Results	Units	Requirement as per NAAQS Specification
<u> </u>	Sulphur Dioxide as SO ₂	IS 5182 (Part 2):2001	15.40	ng/m³	80
2	Nitrogen Dioxide as NO ₂	IS 5182 (Part 6):2006	34.00	µg/m³	80
3	Particulate Matter (PM 10)	IS 5182 (Part 23):2006	47.60	µg/m³	franchista and a superference beautiful and a second secon
4	Particulate Matter (PM 2.5)	GL/EN/SOP/062	18.40	µg/m³	100
5	Ozone as O ₃	IS 5182 (Part 9):1974	BDL(DL:20.0)	 	60
6	Lead as Pb	IS 5192 (Part 22):2004	BLQ(LOO:0.002)	μg/m³	100
7	Carbon Monoxide as CO (1 hour)	IS 5182 (Fart 10):1999	BDL(DL:1.14)	μg/m ³	
8	Ammonía as NH ₃	GL/EN/SOP/057	BDL(DL:20.0)	mg/m³	4
9	Benzene	GL/EN/SOF/08	BLQ(LOQ:4.0)	μg/m³	400
10	Benzo (a)Pyrene (Particulate Phase)	GL/EN-INS/SOP/09		µg/m³	en e
11.	Arsenic as As	IS 5182 (Part 22):2004	6LQ(LOQ:0.03)	ng/m³	Control of the Contro
12	Nickel as Ni	IS 5182 (Part 22):2004	BLQ(LOQ:2.0) BLQ(LOQ:2.0)	ng/m³ ng/m³	en en alla della della consequenta della della consequenta della d

Note

The above Sample complies as per NAAQS limit which is provided in the environmental protection Rule $3\,$

(3B) Nov.2009, against the above tested parameter.

: BDL: Below Detection Limit, DL: Detection Limit / NAAQS: National Ambient Air Quality Standard BLQ-Below Limit of Quantification, LOQ-Limit of Quantification

End of Report

Authorized Signature

#6/1. Int Place, Sel Holly Complex, Munugesen Street, Balavinayagas Nagar, Acumbakkam, Chennai - 98/1106

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TEST KEROKT

ULR No: TC858222000003306F

Report No

EN22070009-05

Feport Date

12 July 2022

Customer Name

M/S. Dalmia Cements (Bharat) Ltd

Customer Address

SF-630 Thamaraíkulam Village, Ariyalur, Tancilnadu-621705

SAMPLE DRAWN BY LABORATORY

Sample Name

Ambient Air Quality

Sample Description

Ambient Air Quality

Sampling Date & Time

: 29 to 30 June 2022

Sample No

EN22070009-05

09.45am to 09,45am

Sampling Location

Sample Received on

04 July 2022

Sample Condition

Near 116 KVA Substation Pit for Fralysis

Test Started on

04 July 2022

Relative Humidity

58%

Test Completed on

12 July 2022

Sampling Procedure

IS 5182 Part V & XIV

Ambient Temperature

31.6°C

Test Resuit 3

SLNo	Test Name	Test Method	Results	Units	Requirement as per NAAQS Specification
1	Sulphur Dioxide as SO2	IS 5182 (Part 2):2001	8.60	µg/m³	80
2	Nitrogen Dioxide as NO2	IS 5182 (Part 6):2006	15.70	µg/m³	
3	Particulate Matter (PM 10)	IS 5182 (Part 23):2006	58.30	µg/m³	100
4	Particulate Matter (PM 2.5)	GL/EN/S02/062	20.00	μg/m³	100
5	Ozone as O ₃	IS 5182 (Part 9):1974	BDL(DL:20.0)	pg/m³	60
6	Lead as Pb	IS 5182 (Port 22):2064	BLQ(LOQ:0.002)		100
7	Carbon Monoxide as CO (1 hour)	IS 5 182 (Part 10):1999	BDL(DL:1.14)	μg/m³	**************************************
8	Ammonia as NH ₃	GL/EN/SCP/057	BDL(DL:20.0)	mg/m ³	4
9	Benzene	GL/EN/SUP/08	Committee of the commit	μg/m³	400
10	Benzo (a)Pyrene (Particulate Phase)	GL/EN-INS/SOF/09	BLQ(LOQ:4.9) BLQ(LOQ:0.03)	µg/m³	A CASA CARRANGE CONTRACTOR CONTRA
11	Arsenic as As	IS 5182 (Part 2 %):260)4	BLQ(LOQ:0.03)	ng/m³	The second of th
12	Nickel as Ni	IS 5182 (Part 22):2004	BLQ(L00:2.0)	ng/m³ ng/m³	and the state of t

ne above Sample complies as per NAAQS limit which is Dic vided in the environmental protection Rule 3

(3B) Nov. 2009, against the above tested parameter

Note

: BDL: Below Detection Limit, DL: Detection Limit / NAAQS: National Ambient Air Quality Standard

BLQ-Below Limit of Quantification, LOQ-Limit of Quantification
***End of Report**

e6/1,81 filos, 51 totto Complex, Moragesse Street, Belsomeyegat Negat, Arorseakkaro, Chronel - 600106

From sell Confidence.

The Yest Royal Relative code is the desire served in the Yest Reseal Study and be improved in failer over without the written automated in the .* The Yest Royal Relative code is the properties of the prope



Glens innovation Labs Pyt Ltd.



TESTREPORT

ULR No: TC853222000003307F

Report No

EN22070009-06

Report Date

12 July 2022

Customer Name

M/S. Dalmia Cements (Bharat) Ltd

Customer Address

SF-630 Thamaraikulam Village, Ariyalur, Tamilnadu-623705

SAMPLE DRAWN BY LABORATORY

Sample Name

Ambient Air Quality

Sample Description

Ambient Air Quality

Sampling Date & Time

: 29 to 30 June 2022

Sample No

EN22070009-06

09.55am to 09.55am

Sampling Location

Near coal crusher

Sample Received on

04 July 2022

Sample Condition

Fit for Analysis

Test Started on

04 July 2022

Relative Humidity

58%

Test Completed on

12 July 2022

Sampling Procedure

1S 5182 Part V & XIV

Ambient Temperature

3.L6°C

Test Results

Sl.No	Test Name	Test Method	Results	Units	Requirement as per NAAQS Specification
1	Sulphur Dioxide as SOz	IS 5182 (Part 2):2001	14.70	μg/m³	80
2	Nitrogen Dioxide as NO ₂	IS 5182 (Part 6):2006	21.00	μg/m ³	The second secon
3	Particulate Matter (PM 10)	IS 5182 (Part 23):2006	55.10		80
4	Particulate Matter (PM 2.5)	GL/EN/SOP/062	22.80	μg/m ³	100
5	Ozone as O ₂	IS 5182 (Part 9):1974	BDL(DL:20.0)	μg/m³	
6	Lead as Pb	IS 5182 (Part 22):2004	And the state of the second property of the s	μg/m³	100
7	Carbon Monoxide as CO (1 hour)	IS 5182 (Part 10):1999	BLQ(LOQ:0.002)	µg/m³	
8	Ammonia as NH _S	GL/EN/SOP/057	BDL(DL:1.14)	mg/m³	4
9	Benzene	GL/EN/SOP/08	BDL(DL:20.0)	μg/m³	400
10	Benzo (a)Pyrene (Particulate Phase)	A CONTRACTOR CONTRACTO	BLQ(LOQ:4.0)	Jig/m ³	
1.1	Arsenic as As	GL/EN-INS/SOP/(-9	BLQ(LOQ:0.03)	ng/m³	
12	Nickel as Ni	IS 5182 (Part 22):1004	BLQ(LOQ:2.0)	ng/m³	-
emarke	The photo Campillar	IS 5182 (Part 22):2004	BLQ(LOQ:2.0)	ng/m³	E.

: The above Sample complies as per NAAQS limit which is provided in the environmental protection Rule 3 (3B) Nov.2009, against the above tested parameter.

Note

; BDL: Below Detection Limit, DL: Detection Limit / NAAQS: Nations: Ambient Air Quality Standard

BLQ-Below Limit of Quantification, LOQ-Limit of Quantification
****End of Report***

#6/Ljst Gror, Sti Jothi Congrex, Murugesin Street, Balavinegegat Nagar, Frumbakkam, Chennal -- 600166.

Terms and Consistence.

The Test Results shall enter to the test as the test as percentaged in full or part values the volument approach of the ... The test as an ordinate be related for recent the respect to the state of the percentage of the test as a percentage of the test as a



Glens innovation Labs Put Ltd.



TEST REPORT

ULK No: TC858222000003308F

Report No

EN2207-1009-07

Report Date

12 July 2022

SAMPLE DRAWN FY LABORATORY

Customer Name

M/S. Dalmia Cements (Bharat) Ltd

Customer Address

SF-630 Thamaraikulam Village, Ariyaiur, Tamilnadu-621705

Sample Name

Ambient Air Quality

Sample Description

Ambient Air Quality

Sampling Date & Time

29 to 30 June 2022

Sample No

10.10am to 10.10am

EN22070009-07

Sample Received on

Sampling Location

Near coal crusher

04 July 2022

Sample Condition

Fit for Analysis

Test Started on

04 July 2022

Relative Humidity

57.8%

Test Completed on

12 July 2022

Sampling Procedure

IS 5182 Part V & XIV

Ambient Temperature

32°C

Test Results

SLNo	Test Name	Test Method	Results	Units	Requirement as per NAAQS Specification
1	Sulphur Dioxide as SO ₂	IS 5182 (Part 2):2001	8.60	μg/m³	described and a special constant and a philosophic are any described a second property of the second and the se
2	Nitrogen Dioxide as NO2	IS 5182 (Part 6):2006	13.00	· · · · · · · · · · · · · · · · · · ·	80
3	Particulate Matter (PM 10)	IS 5182 (Part 23):2J/)6	48.30	μg/m³	80
4	Particulate Matter (PM 2.5)	GL/EN/SOP/062	17.30	µg/m³	100
5	Ozone as O ₃	IS 5182 (Part 9):1974	2-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1	μg/m³	60
6	Lead as Pb	IS 5182 (Part 22):2004	BDL(DL:20.0)	µg/m³	100
7	Carbon Monoxide as CO (1 hour)	IS 5182 (Part 10):1999	BLQ(LOQ:0.002)	pg/m³	<u> </u>
8	Ammonia as NH ₃	GL/EN/SOP/057	BDL(DL:1.14)	mg/m³	4
9	Benzene		BDL(DL:20.0)	μg/m³	400
10	Benzo (a) Pyrenc (Particulate Phase)	GL/EN/SOP/08	BLQ(LOQ:4.0)	μg/m³	
11	Arsenic as As	GL/EN INS/SOP/09	BLQ(L0Q:0.03)	ng/m³	
12	Nickel as Ni	IS 5182 (Part 22):2004	BLQ(1.0Q:2.0)	ng/m³	4
marks	: The above Sample complies as per NA	IS 5182 (Part 22):2004	BLQ(LOQ:2.0)	ng/m³	#

QS limit which is provided in the environmental protection Rule 3

(3B) Nov.2009, against the above tested parameter

Note

: BDL: Below Detection Limit., DL: Detection Limit / NA/ QS: National Ambient Air Quality Standard

BLQ-Below Limit of Quantification, LOQ-Limit of Quantification

End of Report

#6/3,101 Floor, Sil Smili Complex, Kamilgerija Strent, Balavinayages Negel, Alumbakkam, Chennyl - 600006.

terms and Confidences.

The fact Results Related this to the deposition of a fact that not be expected as the composition of the content of t



TESTREPORT

ULR No: TC85822200C003309F

Report No

EN22070009-00

Report Date

12 July 2022

SAMPLE DEAWN BY LABORATORY

Customer Name

M/S. Dalmia Cements (Bharat) Ltd.

Customer Address

SF-630 Thamaraikulam Village, Ariyalur, Tamilnadu-621705

Sample Name

Ambient Air Quality

Sample Description

Ambient Air Quality

Sampling Date & Time

29 to 30 June 2022

Sample No

EN22070009-08

10.20am to 10.20am

Sampling Location

Near WTP

Sample Received on

04 July 2022

Sample Condition

Test Started on

04 July 2022

Relative Humidity

Fit for Analysis 51%

Test Completed on

12 July 2022

Sampling Procedure

IS 5182 Part V & XIV

Ambient Temperature

32°C

Test Results

SI.No	Test Name	Test Method	Results	Units	Requirement as per NAAQS Specification
	Sulphur Dioxide as SO ₂	IS 5182 (Part 2):2001	11.10	μg/m³	80
2	Nitrogen Dioxide as NO ₂	IS 5182 (Part 6):2006	27,90	μg/m³	80
3	Particulate Matter (PM 10)	IS 5182 (Part 23):2006	46.60	µg/m³	100
4	Particulate Matter (PM 2.5)	GL/EN/SOP/062	15.00	μg/m³	60
5	Ozone as O ₃	IS 5182 (Part 9):1974	BDL(DL:20.0)	µg/m³	100
6	Lead as Pb	IS 5182 (Part 22):2004	BLQ(LOO:0.002)	µg/m³	1
7	Carbon Monoxide as CO (1 hour)	IS 5182 (Part 10):1999	BDL(DL:1.14)	mg/m³	4
8	Ammonia as NH3	GL/EN/SOP/057	BDL(DL:20.0)	μg/m³	400
9	Benzene	GL/EN/SOP/08	BLO(LOO:4.0)	ug/m³	
10	Benzo (a)Pyrene (Particulate Phase)	GL/EN-INS/SOP/09	ft.Q(L0Q:0.03)	ng/m³	
11	Arsenic as As	IS 5182 (Fart 22):2004	BLQ(L00;2.0)	ng/m³	*
1.2	Nickel as Ni	IS 5182 (Part 22)-2004	BLQ(LOQ:2.0)	ng/m³	A STATE OF THE STA

Remarks

: The above Sample complies as per NAAQS limit which is provided in the environmental protection Rule 3 (3B) Nov.2009, against the above tested parameter.

Note

: BDL: Below Detection Limit., DL: Detection Limit / NAAQS: National Ambient Air Quality Standard BLQ-Below Limit of Quantification, LOQ-Limit of Quantification

End of Report

86/1, ist Fkrm, Sti Joshi Comptex, Murugesan Street, Balavmayagar Nagar, Arumbakkan, Chemid -- 600109. Terms and Conditions:

From and Condition:

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Glens innovation Labs Pvt Ltd.



TESTREPORT

ULR No: TC858222060003314F

Report No

EN22070009-17

Report Date

12 July 2022

SAMPLET RAWN BY LABORATORY

Customer Name

M/S. Dalmia Cements (Bhacat) Ltd

Customer Address

SF-630 Thamaraikulam Village Ariyalur, Tamilnadu-621705

Sample Description

Stack Emission

Sample No

EN22070009-17

Sampling Date

28 June 2022

Sampling Location

Line 1 Kiln Stack

Sample Received on

04 July 2022

Sample Condition

Fit for Analysis

Test Started on

04 July 2022

Sampling Procedure

GL/EN/SOP/111

Test Completed on

12 July 2022

Test result

S.No	Test Name	Test Method	Results	Units	Limit as per CPCB
1	Stack Temperature	IS 11255 (Part -3):2008	360	***************************************	Standard
2	Velocity	EPA Method 1-3	14.30	K Jan	for
3	Volume of Gas Discharge	is 11255 (Part -3):2003	667866	m/sec Nm³/hr	A service of the serv
4	Oxygen as O ₂	GL/EN/SOP/149	12.60	WA STILL OF THE STATE OF THE ST	el.
5	Carbon Monoxide as CO	GL/EN/SOP/149	51	mg/Nm ³	
5	Carbon Dioxide as CO2	GL/EN/SOP/149	760	o%	e de la companya de l
7	Particulate Matter	GL/EN/SOP/113	16.70	201	A second
8	Sulphur Dioxíde as SO2*	EPA Method 6	07	mg/Nm³	30
9	Oxides Of Nitrogen as NOx* ults at 10% Oxygen level	GL/EN/SOP/149	593	mg/Nm³	100 800

......End of Report......

#5/1, ht Floor, Sri toubi Complex, Mutugeseu Street, Balavhoyagar Magar, Arumbukkam, Chennai - 600106.

Terms and Conditions

The Taxt process passed in the deep tested. The Test hasont shall not be considered in that or part visition approved in Sunt, "The test is near will not be retrieved for the deep from the part of the Constitution of the Con



Glens innovation Labs Pvt Ltd. NABL ACCEPTING AT VER ISO/IEC 17625 : 1817. CERTIFIED AS PER ISO 8001-2015 & 150 85081 ; 2018



TEST REPORT

ULR No: TC85E222000003312F

Report No

EN22070009-18

Report Date

: 12 July 2022

SAMPLE DRAWN BY LABORATORY

Customer Name

M/S. Dalmia Cements (Bharat) Ltd

Customer Address

SF-630 Thamaraikulam Village, Ariyalur, Tamılnadu-621705

Sample Description

Stack Emission

Sample No

EN220700J9-18

Sampling Date

28 June 2022

Sample Identification

Centent MLI-PPC-DIP

Sample Received on

04 July 2022

Sample Condition

Fit for Analysis

Test Started on

04 July 2022

Sampling Procedure

GL/EN/SOP/111

Test Completed on

12 July 2022

Test result

S.No	Test Name	Test Method	Results	Units	Limit as per CPCB Standard
1	Stack Temperature	IS 11255 (Part - 3):2008	365	***	Stantiard
2	Velocity	EPA Method 1-3	13.03	K	
3	Volume of Gas Discharge	IS 11255 (Part -3):2008	233682	m/sec	
4.	Oxygen as O ₂	GL/EN/SOP/149		Nm³/hr	
5	Carbon Monoxide as CO	GL/EN/SOP/149	20,8	%	The state of the s
6	Carbon Dioxide as CO2	GL/EN/SOP/149	BOL(DL:1.14)	mg/m³	A comment of provide and the particular specific
7	Particulate Matter	GL/EN/SOP/113	0.2 16.80	%	<u></u>
8	Sulphur Dioxide as SO2	EPA Method 6	BDL(DL:3.0)	mg/Nm³	30
9	Oxides Of Nitrogen as NO ₂	GL/EN/SOP/149	BDL(DL:2.0)	mg/m³ mg/m³	The second section of the

Note: BDL-Below Detection Limit, DL- Detection Limit

...... Und of Report Page 1 of 1

#6/1) is Filade, Sci Joshi Cemplex, Munugeson Street, Balavis ayagar biogar, Arivebakkam, Chemai ~600306.

From and Conditions:

The feet Result Relate only to the Henry beneal, " the Test Report that not be represented in facing and not without the without approved of trys." The test name was multiply extended for more than 15 days from the date of the freedom is a treat of the condition of the con



GLEDS INOVALION AND SERVING/REC 17025: 2017, CLASSFEED AS PER 150 8001:2015 & 150 45003: 2015



TESTREPORT

ULR No: TC8582228000003316F

Report No.

EN22070019-19

Report Date

12 July 2022

SAMPLE DRAWN BY LABORATORY

Customer Name

M/S. Dalmia Cements (Bharat) 133

Customer Address

SF-630 Thamaraikulam Village Ariyelur, Tamilnadu-621705

Sample Description

Stack Emission

Sample No

EN22070009-19

Sampling Date

29 June 2022

Sample Identification

Cooler

Sample Received on

04 July 2022

Sample Condition

Fit for Analysis

Test Started on

04 July 2022

Sampling Procedure

: GL/EN/SOP/111

Test Completed on

12 July 2022

Test result

S.No	Test Name	Test Method	Results	Units	Limit as per CPCB Standard
1	Stack Temperature	S 11255 (Part -3):2003	579		Januaru
2	Velocity	EPA Method 1-3	14.45	m/sec	
3	Volume of Gas Discharge	IS 11255 (Part -3):2066	254617		The second secon
4	Oxygen as O ₂	GL/EN/SOP/149	20.80	Nm³/hr %	*
5	Carbon Monoxide as CO	GL/EN/SOP/149	BOJ(DL:1.14)	ļ	
6	Carbon Dioxide as CO2	GL/EN/SOP/149	().2	rng/m³	-
7	Particulate Matter	GL/EN/SOP/113	20.00		The second of th
8	Sulphur Dioxide as SO2	FPA Method 6		mg/Nm³	30
9	Oxides Of Nitrogen as NO2	GL/EN/SOP/149	BLA (DLEED)	mg/m³	**

Note: BDL-Below Detection Limit, DL- Detection Limit

..... and of Report... Page Left

#6/1,list Floor, Sri toshi Complex, Murugesza Streve, Balevineyagar Nagar, Acurobekkam, Chennal - 608)106.

Form and Conditions:

The Test Agreement according to the Horis tested. The Test Report find not be inserted in tall at any without the written expected of Bull. The test Agreement for more than 13 days from the data of note than 15 days from the data of note than 15 days from the data of note than 15 days from the data of national contents are not the formation of the formation of the formation of the find of the formation of the find of the fin



Glens innovation Labs Pyt Ltd.



TEST REPORT

ULR No: TC858222000003311F

Report No

EN22070009-20

Report Date

12 July 2022

SAMPLE DRAWN BY LABORATORY

Customer Name

M/S. Dalmia Cements (Bharat) Ltd

Customer Address

SF-630 Thamaraikulam Village, Ariyalur, Tamilnadu-621705

Sample Description

Stack Emission

Sample No

EN22070009-20

Sampling Date

29 June 2022

Sample Identification

Coal Mill

Sample Received on

04 July 2022

Sample Condition

Fit for Analysis

Test Started on

04 July 2022

Sampling Procedure

GL/EN/SOP/111

Test Completed on

12 July 2022

Test result

S.No	Test Name	Test Method	Results	Units	Limit as per CPCB Standard
ł	Stack Temperature	IS 11255 (Part -3):2008	347		Standard
2	Velocity	EPA Method 1-3	10.40	***************************************	
3	Volume of Gas Discharge	(S 11255 (Part -3):2008	Company of the Compan	m/sec	
4	Oxygen as O2	GL/EN/SOP/149	99964	Nm ³ /hr	
5	Carbon Monoxide as CO	GL/EN/SOP/149	10,90	%	
6	Carbon Dioxide as CO2	GL/EN/SOP/149	54	mg/Nm³	
7	Particulate Matter	GL/EN/SOP/113	9.20	96 	d.
8	Sulphur Dioxide as SO2	EPA Method 6	28.50	mg/Nm³	.30
9	Oxides Of Nitrogen as NO ₂	GL/EN/SOP/149	BDL(DL:3.0) 544	mg/m³ mg/Nm³	

Note: BDL-Below Detection Limit, DL- Detection Limit

...End of Report..... Page 1 of 1

#6/1, lst Place, 3rd Jorga Compiles, Munugesen Steekt, Balavinsyagar Magar, Arambakkam, Chennol ~ 600108.

Tent and Conditions

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Glens innovation Labs Pvt Ltd. Mark accredited as per iso/ipc 17025 : 2017, Certified as per iso good 2015 & 150 asoot : 7018



TESTREPORT

ULR No: TC358222000003317F

Report No

EN22070009-21

Report Date

12 July 2022

SAMPLE DRAWN BY LABORATORY

Customer Name

M/S. Dalmia Cements (Bharat) Ltd

Customer Address

SF-630 Thamaraikulam Village, Ariyolur, Tamilnadu-621705

Sample Description

Stack Emission

Sample No

EN22070009-21

Sampling Date

29 June 2022

Sample Identification

Packer-1

Sample Received on

04 July 2022

Sample Condition

Fit for Analysis

Test Started on

04 July 2022

Sampling Procedure

GL/EN/SOF/111

Test Completed on

12 July 2022

Test result

S.No	Test Name	Test Method	Results	Units	Limit as per CPCB Standard
1	Stack Temperature	IS 11255 (Part -3):2008	305		Sandard
2	Velocity	EPA Method 1-3	18.30	m/sec	
3	Volume of Gas Discharge	IS 11255 (Part -3):2008	©/\$0030		•
4.	Oxygen as O ₂	GL/EN/SOP/149	20.80	Nm³/lur %	•
5	Carbon Monoxide as CO	GL/EN/SOP/149	BDL(DL.1.14)		-
6	Carbon Dioxide as CO2	GL/EN/SOP/149	.01	mg/m³	
7	Particulate Matter	GL/EN/SOP/113	6.90		*
8	Sulphur Dioxide as SO2	EPA Method 6	BDL(DL:3.0)	mg/Nm³ mg/m³	30
9	Oxides Of Nitrogen as NO2	GL/EN/SO?/149	BUL(DL:2.0)	mg/m³	A

Note: BDL-Below Detection Limit, DL- Detection Limit

...Esd cfReport...... Page 1 of 1

#6/1) ist Pigni, No testa Cereplex, Maragesan Street, Belovinavagar Nagar, Arombakkara, Chennel – 6001,06.



Glens innovation Labs Pyt Ltd.



TESTREPORT

ULR No: TC658222000003319F

Report No

EN22070009-22

Report Date

: 12 July 2022

SAMPLE DRAWN BY LABOKATORY

Customer Name

M/S. Dalmia Cements (Bharat) Ltd

Customer Address

SF-630 Thamaraikulam V ilage.Ariyalur,Tamilnadu-62170S

Sample Description

Stack Emission

Sample No

EN22070009-22

Sampling Date

29 June 2022

Sample Identification

Packer-2

Sample Received on

04 July 2022

Sample Condition

Fit for Analysis

Test Started on

04 July 2022

Sampling Procedure

GL/EN/SOP/111

Test Completed on

12 July 2022

Test runt it

S.No	Test Name	Test Method	Results	Units	Limit as per CPCB Standard
1	Stack Temperature	IS 11255 (Part -3):2008	313	V	Standard
2	Velocity	EPA Method 1-3	16.40	m/sec	•
3	Volume of Gas Discharge	IS 11255 (Part -3):2006	43446	N _{in} 3/hr	
4.	Oxygen as O ₂	GL/EN/SOP/149	20.80	W	
5	Carbon Monoxide as CO	GL/EN/SOP/140	BP4.(DL:1.14)	mg/m³	and the second s
6	Carbon Dioxide as CO2	GL/EN/SUP/149	0.1	%	
7	Particulate Matter	GL/EN/SOP/113	9.80	mg/Nm³	30
8	Sulphur Dioxide as SO2	EPA Method 6	BDL(DL:3.0)	mg/m³	30
ŋ	Oxides Of Nitrogen as NO2	GL/EN/SOP/149	BDL(DL:2.0)	mg/m³	-

Note: BDL-Below Detection Limit, DL- Detection Limit

.....End of Report..... Page 1 of 1

86/1, ht Paper, Sti Joffel Complex, Munugesen Street, Halaninoyagor Nagar, Arussbakkain, Chennai - 500106.

Taim and Conditions

The Last liability lights only to the learn torted. The Test finant that our he remodered in full or only without the written approved of lays. The Last Beam witnes be restricted to reserve them to day our more of test for the Last Reserve to the Last Reserve to the Last Reserve to the Last Reserve with a separate with a process of them the day of the Last Reserve to the Last Reserve to the Last Reserve with a separate with a control of the Last Reserve to the



Glens innovation Labs Pvt Ltd.



TESTREPORT

ULR No: TC358222000003318F

Report No

EN22070009-23

Report Date

12 July 2022

SAMPLE DRAWN BY LABORATORY

Customer Name

M/S. Dalmia Coments (Bharac) Ltd

Customer Address

SF-630 Thamaraikulam Village, Ariyaiur, Tamilnadu-621705

Sample Description

Stack Emission

Sample No

EN22070009-23

Sampling Date

29 June 2022

Sample Identification

Packer 3

Sample Received on

04 July 2022

Sample Condition

Fit for Analysis

Test Started on

04 July 2022

Sampling Procedure

GL/EN/SOP/111

Test Completed on

: 12 July 2022

Test result

.No	Test Name	Test Method	Results	Units	Limit as per CPCB Standard
1	Stack Temperature	IS 11255 (Part -3):2008	303		Standard
2	Velocity	EPA Method 1-3	49.40	K	
3	Volume of Gas Discharge	IS 11255 (Part -3):2008	53870	m/sec	A CONTRACTOR OF THE CONTRACTOR
4	Oxygen as O2	GL/EN/SOP/149	And the second s	Nm ³ /hr	•
5	Carbon Monoxide as CO	GL/EN/SOP/149	20.80	%	
6	Carbon Dioxide as CO2	GL/EN/SOP/149	BDL(05:1,14)	mg/m³	V
7	Particulate Matter	GL/EN/SOP/113	0.1 6.40	%	*
3	Sulphur Dioxide as SO2	EPA Method 6	to the supplication of the state of the supplication of the state of t	mg/Nm³	30
)	Oxides Of Nitrogen as NO2	GL/EN/SOP/1 19	BDL(DL:3.0) EDL(DL:2.0)	mg/m³	

Note: BDL-Below Detection Limit, DL- Detection Limit

..... Bud of Report...... Page 1 of 1

\$671 Jul Floor, Stillothi Complex, Managesan Street, Balaviouyagar Noger, Acumbakkom, Chennal ~ 600106.

For a lead bendings:

The Fast Henric Relate only to the steme tosted.* The Fast Respect Super rective reproduced in full or post authors the available appropriate flux. * The Lead Beaut will not be retoked for more time 15 days from the data of a san fast rective averaged for rective and the respect of the same will not be retoked for more time 15 days from the data of a san fast rective rectiv



TEST REPORT

ULR No: TC858222000003322F to 3329F

Report No

EN22070009-27 to 34

Report Date

12 July 2022

SAMPLE DRAWN BY LABORATORY

Customer Name

M/S. Dalmia Cements (Bharat) Ltd

Customer Address

SF-630 Thamaraikulam Village, Ariyalur, Tamilnadu-621705

Sample Description

Fugitive Emission

Sampling Date

28 June 2022

Sample No

EN22070009-27 to 34

Sample Received on

04 July 2022

Sample Condition

Fit for Analysis

Test Started on

04 July 2022

Test Completed on

12 July 2022

Test result

S.No	Sample Location	Test Name	Test Method	Results	Units
•	Green Fuel Shed	Respirable Suspended Particulate matter	NIOSH-0600	166.60	µg/m³
2	Cooler	Respirable Suspended Perficulate matter	NIOSH-0600	62,50	µg/m³
3	Coal Tippler	Respirable Suspended Particulate matter	NIOSH-0600	41.60	Hg/m³
4	Packing Plant	Respirable Suspended Particulate matter	NIOSH-0600	145.80	h&\u03
5	LS Crusher	Respirable Suspended Particulate matter	NIOSH-0600	104.10	µg/m³
6	Coal Yard	Respirable Suspended Particulate matter	NIOSH-0600	125.0	µg/m³
7	Coal Crusher	Respirable Suspended Particulate matter	NIOSH-0600	177.08	µg/m³
8	CPP Boiler	Respirable Suspended Particulate matter	NIOSH-0600	129.10	hg/m³

....End of Report...... Page 1 of 1

86/1, ist Floor, Sri John Complex, Murugessin Street, Ballydinayagar Nagar, Arumbakkara, Channal – 600104

Terms and Conditions:

Terms and Conditions

The Test Basel's Risks only to the Research test in the Test Small not be represented in this or pay content the animal and pay the most straight of the animal test or pay content to the animal to prove any test to be the animal to prove any test to be animal to be animal to prove any test to be animal to be animal to be animal to be animally and the animal test animal test animal test to be animally and the animal test anima



Green Belt







Plantation: 69,9909 Nos (40% Plant area)

96% Sustenance Rate

Individual Zone Owner Responsibility

Plant in the Garden & not Garden in the plant

Good Biodiversity, 94 Acre

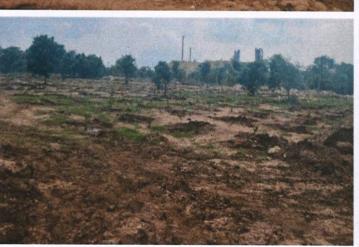




2500 plants covering 32 varieties planted in 6.5 acre land for attracting birds 26 varieties of bird species identified in plant premises

S.No	Particulars	Quantity (Nos)
1	Acerola-Barbados Cherry Fruit	100
2	Sweet Cherry Fruit	50
3	Singapore Cherry	150
4	Country Fig	100
5	Grafted Fig	100
6	Elanthai Fruit	100
7	Noni Fruit	75
8	Jack Fruit	25
- 9	Black Jamun	50
10	White Jamun	50 ·
11	Water Apple	50
12	Sweet Star Fruit	40
13	Guava - Thaiwan Pink	100
14	Guava - L 49	100
15	Kodukapulli	200
16	Pomegranite Fruit	200
17	Mango-Himanupasandhu	50
18	Amla Small	50
19	Pomegranite Fruit	150
20	People Tree	50
21	Indian Almond Tree	75
22	Mahilam Tree	100
23	Arabian Date Palms	10
24	Bael Tree	50
25	Babul Tree	50
26	Arjuna Tree	50
27	Vagai Tree	50
28	Illuppai Tree	100
29	Vanni Tree	100
30	Perumarudhu Tree	50
31	Vilvam Tree	25
32	Champaka Tree	50
	Total	2500













GOVERNMENT OF TAMIL NADU WATER RESOURCES DEPARTMENT

From:

Er. S.Prabakaran, B.E., Chief Engineer, WRD, State Ground & Súrface Water Resources Data Centre Tharamani, Chennai 600 113 Phone: 91-44-22542223 (Direct)

91-44-22541526/27(Board)

Email: cegwchennai@gmail.com
Web site: www.groundwatertnpwd.org

To:

M/s. Dalmia Cement (Bharat) Ltd., SF.NO.630,Tmaraikulam Village, Ariyalur Block & Taluk, Ariyalur-621 705.

Lr.No.OT 8/AG-2/273/Renewal of NOC /Trichy/ 2022 dated: 오토.04.2022.

Sir,

Sub: "Renewal of No Objection Certificate" for drawal of ground water to M/s. Dalmia Cement (Bharat) Ltd., Govindapuram and Ottakovii Village. Ariyalur Block, Ariyalur Taluk, Ariyalur District – 7th Renewal of NOC - Reg.

Ref:

- 1. This Office Lr.No. OT8/AG-2/325/renewal of NOC/Trichy/2021 dt:16.08.2021
- 2. The firm Renewal of NOC application date: 18.01.2022
- 3. Triis Office Lr.No:29DD(G)/AG-VI/Renewal of NOC/2022DI:28.01.2022
- 4 SE,GWC,ThanjavurLr No:81°/AG/T F44C(TRY)/NOC/GWC/TNJ/2022 - Dt:05.04.2022

Please find the enclosed "Renewal of No Objection Certificate", for drawal of ground water to M/s. Dalmia Cement (Bharat) Ltd., Govindapuram and Ottakovil Village. Ariyalur Block, Ariyalur Taluk, Ariyalur District. As per the G.O.(Ms).No 142 PW(R2)Department dt:23.07.2014, NOC should be renewed every year for the water based industries. You are requested to strictly adhere to the quantity permitted and conditions mentioned in the certificate and apply for renewal of NOC before two months from the date of expiry i.e., 21.02.2023 without fail.

Enclosure:

1. Renewal of No Objection Certificate & Conditions

Chief Engineer (SG &SWRDC), WRD, Tharamani, Chennai-113



Certificate No.273/2022 (R-7)

Dated: 25.04.2022

GOVERNMENT OF TAMIL NADU WATER RESOURCES DEPARTMENT STATE GROUND & SURFACE WATER RESOURCES DATA CENTRE CHENNAI – 113 Renewal of No Objection Certificate

This is to certify that "M/s. Dalmia Cement (Bharat) Ltd", Govindapuram and Ottakovil Village, Ariyalur Block, Ariyalur Taluk, Ariyalur District, is falling under the "Safe Category" as on 2009 Categorisation, is hereby given the "Renewal of No Objection Certificate" for the drawal of total quantity of 16,20,000 LPD (Sixteen Lakh and Twenty Thousand Litres per day) of groundwater for the purpose of "Industry (Cement Industry)" from the Groundwater structure listed below with strict adherence of stipulated conditions.

SI.	Referred		Co-ordinates		Quantity Permitted		
No	Well / Bore Well & SF, No	Village/Block	Latitude	Longitude	for pumping in LPD		
1.	TW1/630/1 2B	Govindapuram/Ariyalur	11 ⁰ 10'85" N	79 º06'01" E	2,43,000		
2.	TW2/640/0 5	Govindapuram/Ariyalur	11 ⁰ 11'05" N	79 ⁰ 06'08'' E	2,43,000		
3.	TW3/614/0 8B	Govindapuram/Ariyalur	11 ⁶ 10'59" N	79 ⁰ 05'96" E	3,73,500		
The state of the s	TW4/158/0	Ottakovil/Ariyalur	11° 11'17' N	79 ⁰ 06'01" E	3,73,500		
5.	TW5/162/1	Ötlakovil /Ariyalur	11 ⁰ 10'23" N	79 °05 19" E	3,87,000		
Special control of the second	Total 16,20,000						

This renewal certificate is valid from 22.02.2022 to 21.02.2023 and the NOC is accorded under the conditions laid down over leaf.

Chief Engineer (SG &SWRDC), WRD, Tharamani, Chennai-113

Conditions pertaining to M/s. Dalmia Cement (Bharat) Limited, Ariyalur District

- This No Objection certificate issued for ground water extraction applies to the referred ground water abstraction structure only.
- 2 All the other ground water abstraction structures (dug wells/bore wells/dug-cum bore wells) other than the permitted one inside the plant area should not be considered for this permission.
- 3 Such structures as said in Condition No.2 should be closed or used only for Rain water harvesting purposes.
- 4 This Certificate is applicable for drawal of permitted Quantity of ground water only and not for transportation.
- The Company should instail necessary "flow meters" to the referred well /bore well and monitor the quantity which should not exceed the permitted level. Proper Records should be maintained continuously from the date of drawal. Monthly statement of daily drawal of water should be sent to the Executive Engineer, Groundwater Division, Trichy as per format enclosed.
- As and when the officials of Ground Water Wing of PWD inspect the site/premises, perusal of drawal records and water quality observations should be allowed.
- 7 Rain water harvesting structure is to be established as per the direction of this department. Rain water harvesting structures already exist inside the plant premises, it should be maintained properly.
- 8 Violation of the above stipulations in any form may lead to cancellation of the permission accorded by the Government.
- The Company should be ready to pay the lavylcharges for drawal of ground water for commercial purposes, if Government / Ground Water Authority imposes any such orders in future.
- As per the G.O.(Ms) No 142 PW(R2)Department dt 23.07.2014, NOC should be renewed every year for the water based industries.
- It is also informed that during the renewal of the NOC, depending upon the hydrogelogical condition the category of the area and the site conditions, the quantity will be vary from permitted quantity.
- 12 The handed over Bore Well to this Department for Water Level monitoring purpose should be maintained properly
- This No Objection Certificate is applicable only for the purpose of "Cement Industry", if any deviation in the usage of ground water is found, the NOC accorded is automatically deemed to be cancelled.
- The Executive Engineer, Ground Water Division of the respective District would inspect either the rain water harvesting structures established in the premises of the firm or the records maintained or even the drawal of ground water as and when needed and it is the mandatory of the firm to maintain the Rain water harvesting structure/ structures properly and show the records needed.
- If any information / Documents submitted by this firm is found to false / in correct or any data provided by the firm is found to be incorrect, the NOC issued to the firm will be cancelled by this department without any prior notice.

Chief Engineer, SG & WRDC, WRD, Tharamani, Chennai-113.



Sustainability Oriented Priorities



One Million Livelihoods

- Enroll maximum number of beneficiaries the mission journey through intense field interventions
- Best uUtilization of "Gram Parivartan" project team to reach out to optimal number of beneficiaries for livelihood creation
- Partnership with NABARD, RSETI, HP, Tamil Nadu Govt. Skills Dept, etc. for funding support
- Collaboration with KVK, Govt. Projects for technical and convergence support
- Working with Financial Institutions for Credit Support
- Trainings, farm demonstrations, Livestock best practices, creation of micro enterprises and job referrals



Sustainability Oriented Priorities



 To enroll optimal number of beneficiaries for One Million Livelihoods mission Journey - 2030

Farming and Agriculture

 To support plant achieve 20 times water positivity well before 2025



 Extensive works to be carried out in the agriculture front aiming Water and Soil conservation inevitable for a sustainable livelihood

Demand Oriented Priorities



Drinking water accessibility

- Community RO Plants
- Water tanks
- Drinking water borewells

Infrastructure support for sports, education and health sectors

- Class room renovations, school sanitation, teaching aides
- Support for PHC Clinical equipments, hospital amenities
- Play grounds, sports materials

Village Infrastructure

- Tower lights, street lights,
- · Roads, drainages, community sanitation
- Ration shop building





Farmers meetings to address issues during croping seasons





Modern farming practices to farmers through road side meetings





Village pond deepening activity at Thamaraikulam, Ariyalur District





Livestock support camps





Livelihoods activities



Women trained in Fast Food preparation in collaboration with RSETI



Making women entrepreneurs through collaborative efforts







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THE JOHNSTY OF ENVIRONMENT & Forests, New Delhi had accorded Egyronmental Clearance to the Proposed Project of 20 MTPA Clinker & 3.0 MTPA Cement and 27 MW Power Plant by M/S Dalinia Cement (Bharat) Limited at Sovindapuram Village of Ariyalur jaluk Ariyatur Bistrici, Tamil Nadu.

The Copies of the plearance are available with Tamil Nedu Politition Control Beard and also in the website of Ministry of Environment & Forest at http://envfor.pic.in

Management

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Species (1872). Easter by Chipat M. Fram (Editor thing conditions have been consulted the PAS (18)).

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Signer von 6 Gup Gereiche Sei Ossu-Appel in Gelgenist George (IIII 1874) geschriebe Gen von Schrowen ் இதும் வளிதுறை அமைச்சுக்க், டால்பியிர் இரும்பத்தில் அறிக்காவிலுள்ள கோவிந்தபும் விராமத்தில் 2.0 MTPA கிலிங்கர், 3.0 MTPA கிலையை மற்றும் 27 MV பவர் பிளாண்ட் ஆகியமை உள்ள கிவ உற்றேகிக்கப்பட்டுள்ள கிலமண்ட ஆணை நிறவ கற்றுக்கும் தொடர்பான ஒப்புதல் அளித்துள்ளது.

தித்த ஒப்புதலின் நகல்கள், தமிழக மாக எட்டுப்படு காறியத்தீரும் மற்றும் சுற்றுச்சுமல் மற்றும் வனத்துறை அமைச்சக இணைய தனத்தும் (http://onvfor.nic.in) உள்ளது என்பதை செறியவம்.

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Online Monitoring System and real time display





Real Time display at Gate



Online Effluent monitoring system at ETP



Online Effluent monitoring system at STP



Online Emission Monitoring System





Green Champion Award from Tamil Nadu Pollution Control Board





Platinum Award for Environmental Excellance 2021 by Apex India Foundation









Gold Award for CSR Excellance 2021 by Apex India Foundation







Dalmia cement FUTURE TODAY

Platinum Award for Sustainability in Green Crest Environment Management Awards - 2022 by Green Maple Foundation.

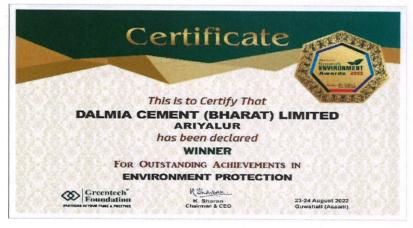






Winner in 22nd Greentech Environment Award 2022 organized by Greentech Foundation







Runner up in Best Zero Liquid Discharge CPP during water Optimization Award 2022 by Mission India Foundation





Winner in Smart Factory of the year 2022 from Manufacturing today



Runner up in Excellence in Human Resource 2022 (Large) from Manufacturing today





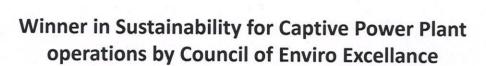




Fly Ash utilization Award Winner for Green Building Material - Cement, 2022



Platinum Award for Occupational Health & Safety 2022 by Apex India Foundation









ENV

This is to certify that

Dalmia Cement (Bharat) Limited - Ariyalur,
has participated and been awarded

ver" for CEE National Award for Excellence In Environ
Sustainability - 2022 in CPP - Liginite Category.

ias been based on evaluation done by the panel of jury al Award for Excellence In Environmental Sustainabi 2ld on 18th August 2022 on Next-Gen Virtual platform.

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Thank you