

cement! sugar! refractories! power!

FUTURE TODAY

ARY/MoEF/Cement & CPP/EC/23-24/27

25.05.2023

To

The Director

Ministry of Environment, Forest and Climate Change Integrated Regional Office, 1st Floor, Additional Office Block for GPOA, Shastri Bhawan, Haddows Road, Nungambakkam, Chennai – 600 006.

Respected Sir,

Sub: Half Yearly Environmental Clearance Compliance Report – Oct'22 to Mar'23 of Dalmia Cement (Bharat) Limited, Govindapuram and Ottakovil 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 October 2022 to March 2023.

- 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 & Solar Plant 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

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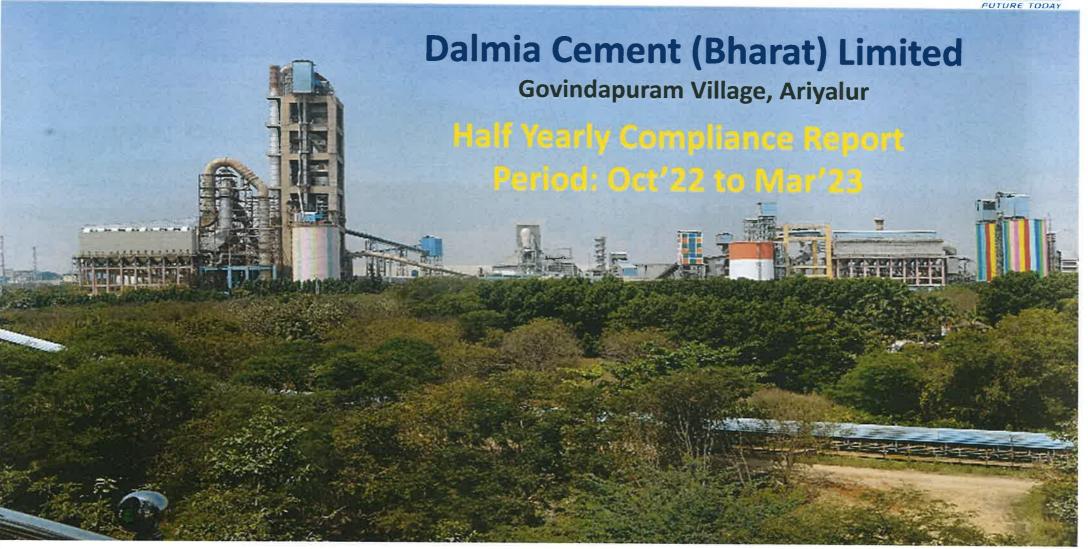
Unit Head

Encl: As stated above.

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

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





Dalmia Cement (Bharat) Limited, Ariyalur

Status of compliance stipulated in Environmental Clearances (For the period of Oct 2022 to Mar 2023)

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	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
	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.	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 areas etc. Asphalting/concreting of roads and water spray all around the stockyard and loading /unloading areas shall be carried	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 being used for sweeping spilled cement on shop floor and recycled back. Covered sheds provided for raw materials like crushed limestone, Coal, petcoke, Alternative fuels,

	out to control fugitive emissions. Covered sheds for storage of raw materials and fully covered conveyers for transportation of materials shall be provided.	Fire clay, gypsum and wet Fly ash. Raw meal, Clinker, Cement & dry Fly ash are stored in silos with bag filters. All belt conveyors were fully closed.
iii	Efforts shall be made to reduce impact of the transport of the raw materials and end products on the surrounding environment including agricultural land.	Complied with. We are getting limestone from Perianagalur, Kallakudi, Kavandukuruchi and Periyathirukonam mines and the transportation enroute has some agricultural lands and settlements. However, so far 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 shall not exceed 2,500 m³/day. No surface water shall be used. All the treated wastewater treated in a neutralized plant shall be recycled and reused in the cement Plant for cooling purpose and/or for dust suppression, green belt development and other plant related activities etc. No process Waste water shall be discharged outside the factory premises and zero discharge shall be adopted. Domestic treated effluent shall be used for greenbelt development within the plant and colony area.	Complied with. The total ground water requirements not exceed 2500 m³/day and the present water consumption is 1600 m³/day. No surface water is used for the plant operations. Treated waste water from the neutralization plant is recycled back into cement process and also in dust suppression. Domestic waste water generated is treated in the STP and treated water is used for gardening purpose. No process water is discharged outside and Zero discharge condition is maintained.
V	Permission for the drawl of 2,500 m³/day ground water shall be obtained from the state Ground Water Board/Central Ground Water Authority (SGWB/CGWA) and all the recommendations of the SGWB/ CGWA shall be followed	Complied with. Permission for Ground water withdrawal for 1620 m³ obtained from State Ground and Surface water resources data center, valid still 21.02.2024.
vi	All the cement dust collected from pollution control devices like ESPs, bag house, bag filters etc. shall be recycled and reused in the process and used for cement manufacturing Fly Ash from Captive power plant shall be used for manufacturing Pozzolana Portland Cement (PPC). Bottom ash shall be used as boiler bed material. Refractory bricks shall be disposed off in environment-friendly manner. ETP Sludge	Complied with Cement dust collected from pollution control devices is recycled back in the process. Fly ash from Captive Power Plant is used for making PPC. The bottom ash is collected in form of dry ash and the same is completely used in cement manufacturing. Some portion of refractory bricks is used for garden decoration, developing internal roads and also sold to recyclers. No ETP sludge is generated as neutralization method is adopted and sludge generated from STP

	shall be disposed off at landfill site. STP Sludge shall be used as manure for green belt development. Waste oil and grease and scrapped automobiles batteries shall be sold to authorized recyclers/re-processors only.	is used as manure for green belt development. Used oil & grease generated from the process is collected and disposed to the authorized recyclers and used lead acid batteries is been send back to manufacturers.		
vii	The Project authorities shall adhere to the provisions stipulated in the fly ash Notification, 1999 as amended in 2003.	Complied with. All the fly ash generated from Captive Power Plant is completely used in the cement manufacturing process.		
viii	Efforts shall be made to use fly ash maximum in making Pozzolana Portland cement (PPC)	Complied with. The entire fly ash generated is used in the cement manufacturing process. Percentage of fly ash used in PPC for FY 22-23 is 33.89%.		
ix	An effort shall be made to use of high calorific hazardous waste in the cement kiln and necessary provision shall be made accordingly	Complied with. Installed Full fledge alternative fuel feeding system for Co-Processing Hazardous/Non hazardous waste in Kiln with shredders, magnetic separators, screen, extractor and closed belt feeding system. Presently, co-processing Non Hazardous waste like 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 grade lime, more fly ash and solid waste in the cement manufacturing.	Complied with. Low grade Limestone is blended with High grade limestone and used for Cement manufacturing. Also, co-processing Textile ETP sludge as an 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.		
xi	As proposed, green belt shall be developed in 33% area in and around the project site as per as the CPCB guidelines to mitigate the effects of air emissions in consultation with local DFO	Complied with. More than 34% of the total area is covered with Green belt. As of Mar'23, 68,934 nos of trees were maintained inside the plant premises in consultation with local DFO initially and with 96% survival rate.		
xii	All recommendations made in the Corporate Responsibility for Environment Protection (CREP) for cement plants shall be implemented.	Complied with. S.No Conditions Compliance 1 Cement Plants, Air Pollution Control which are not complying maintained in order with notified to meet the emission		

	standards, will do the following to meet the	norms of <30 mg/Nm³. Regular checking of Bags is
	standards:	carried out based on
	• Augmentation of existing Air	the DP value and if any damage is
	Pollution Control	observed, it is
	Devices-by July 2003	replaced immediately. Also,
	• Replacement of	during every
	existing Air Pollution Control	shutdown/stoppages, Bag house chambers
	Pollution Control Devices-by July	is inspected and
	2004	maintained.
2	Cement Plants located in critically	The particulate emissions from
	polluted or urban	pollution control
	areas (including	equipment's designed
	5km distance outside urban	to meet the emission norms of <30
	boundary) will	mg/Nm ³ . Regular
	meet 100 mg/Nm ³	checking of Bags is
	limit of particulate matter by	being carried out based on the DP
	December 2004 and	value and if any
	continue working to	damage is observed,
	reduce the emission of particulate	it is replaced immediately. Also,
	matter to 50	during every
	mg/Nm ³	shutdown/stoppages, Bag house chambers
		is inspected and
		maintained.
3	The new cement	The particulate
3	kilns to be accorded	emissions from
-	NOC/Environmenta	pollution control
	l Clearance w.e.f 01.04.2003 will	equipment's is within the emission norms
	meet the limit of 50	of <30 mg/Nm ³ .
	mg/Nm ³ for	Al
	particulate matter emissions	
4	CPCB will evolve	The Load based
	load based	emission for
	standards by December 2003.	Particulate matter from Raw mill, kiln
	2000111001 2003.	and pre-calciner
		system put together is
		less than 0.125 kg/

			ton of clinker.
	5	CPCB and NCBM	The emissions levels
	3	will evolve SO ₂ and	of NO _x and SO ₂ are
		NO _x emission	well within the
		standards by June	standards proposed
	×	2004	by CPCB. We also
		2004	installed Duoplex
			burner (low NO _x) in
			kiln main stack
	6	The Cement	The fugitive emission
	ľ	industries will	is controlled by
		control fugitive	· · · · · · · · · · · · · · · · · · ·
		emissions from all	1. Most of the area
		the raw material	including raw
		and products	material handling
		storage and transfer	area covered with
		points by December	RCC pavement and
		2003. However, the	road sweeping carried
		feasibility for the	out using sweeping
		control of fugitive	machines.
		emissions from	2. All transfer points
100	l i	limestone and coal	are fully closed and
		storage areas will	fugitives controlled
		be decided by the National Task	by water spraying or extraction to Bag
		Force (NTF). The	extraction to Bag filters.
*		NTF will submit its	3. Covered sheds
		recommendations	provided for Raw
		within three	materials like crushed
		months.	limestone, Imported
			Coal, petcoke,
			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
			with respect to the
			CPCB guidelines on
			fugitive emission
			control vide
			PROBES/118/2007.
1			W.

		dated 06.07.2007.
7	CPCB, NCBM, BIS and Oil refineries will jointly prepare the policy on use of petroleum coke as fuel in cement kiln by July 2003.	We are using imported/domestic pet coke in the manufacturing process by obtaining necessary permission apart from imported coal and Lignite as a fuel in cement kiln.
8	After performance evaluation of various types of continuous monitoring equipment and feedback from the industries and equipment manufacturers, NTF will decide feasible unit operations/sections for installation of continuous monitoring equipment. The industry will install the continuous monitoring systems (CMS) by December 2003	The Continuous Emission and Effluent monitoring systems has been installed and readings are connected to TNPCB CAREAIR Centre, Chennai & also to CPCB Server through online. Further, the analyzers are calibrated regularly with respect to their functioning, drift, linearity as per the CPCB guidelines.
9	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,



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 No operation of the cement plant shall be carried out till the environmental clearance for the mining project is obtained from	The Cement plant is commissioned only after obtaining the environmental clearance for Limestone mines. The required limestone is
	mining project is obtained from the ministry of environment and forests and a copy submitted to the ministry's regional office at Bangalore.	
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, uploaded the information on PARIVESH Portal on 25.06.2021 for 'No increase in Pollution Load'

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	towards modernization and upgradation 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 upgradation work is being carried out. 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 (protection) Act, 1986 Rules, 1989 viz 75 dBA (day time) and 70 dBA (night time).	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.
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.
х	A separate environmental management cell to carry out various management and	Complied with. A full fledge separate environmental cell is in place with two qualified environments professional and a

up u	itoring functions shall be set under the control of Senior cutive.	Horticulturist under the direct supervision of Unit Head. Also, formed department wise SPOC's persons to monitor the Environmental aspects/impacts for taking effective corrective measures through Environment Management programme (EMP).
Rs.4 earm cost earm pollu judic cond Mini Fore Gove	proposed, Rs.17.45 Cores and .85 Crores/annum shall be tarked towards the capital and recurring cost/annum tarked for environment ation control measures and ciously used to implement the citions stipulated by the stry of Environment and sts as well as the state ternment. The funds so ided shall not be diverted for other purposes.	Complied with. Capital cost invested for the pollution control measures is 45 crore. Every year, for environmental protection budget is allotted and wisely spent. In FY 22-23, around 145.05 lakhs utilized as recurring cost for general activities and around 149.0 Crore 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
Mini TNP stipu mon the statis	regional Office of this stry at Bangalore / CPCB / CB shall monitor the lated conditions. A six thly compliance report and monitored data along with stical interpretation shall be nitted 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/22-23/126 dated 26.11.2022.
xiii The infor well Final appropriate concord	project authorities shall om the Regional Office as as Ministry, the date of ncial closure and final oval of the project by the erned authorities and the date commencing the land lopment work.	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.
ivx The information informatio	project proponent shall me the public that the project been accorded environmental rance by the Ministry and res of the clearance letter are able with the T.N. Pollution rol Board / Committee and also be seen at website of the stry of Environment and sets at http://envfor.nic.in. This ld be advertised within seven from the date of issue of the rance letter at least in two	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.

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





Annexure - 1

ANNEXURE - 1

Dalmia Cement (Bharat) Limited



Plant - Cement & CPP

Department : Environment

SUMMARY REPORT OF STACK EMISSION (PM)

PERIOD: Apr 2022 - Mar 2023

UNIT - mg/Nm³

Month	Kiln/Raw mill		Clinker cooler		Coal mill		Cement mill		Boiler ID fan	
	Observed Level	Norms								
Max	24.3		26.8	23.9	20	24.3	30	33.5	50	
Min	5.5	20		17.6		11.6		20.7		
Avg	13.4	30	23.2	30	21.3	30	19.0	30	26.7	30
St. Deviation	5.0		3.3		1.9		4.5		6.4	

SUMMARY REPORT OF STACK EMISSION (SO $_{\!2}$ & NO $_{\!x})$

PERIOD: Apr 2022 - Mar 2023

UNIT – mg/Nm³

	SO₂ Emission				NOx Emission				
Month	Kiln/Raw mill		Boiler ID fan		Kiln/Raw mill		Boiler ID fan		
	Observed Level		Observed Level	Norms	Observed Level	Norms	Observed Level	Norms	
Max	2.9		264.5		720.9		42.8		
Min	1.0	100	192.4	600	295.0	800	9.8	300	
Avg	2.3	100	236.9	000	464.0	000	31.1	000	
St. Deviation	0.6		38.9		144.2		18.5		

SUMMARY OF NOISE MONITORING REPORT

PERIOD: Apr 2022 - Mar 2023

UNIT - dB (A)

DAY & NIGHT TIME

Month	Northeast Boundary onth (Near CPP)		Southeast Boundary (Near crusher Transport system)		Southeast Boundary (Near Limestone stacker)		Northwest Boundary (Near substation)		Permissible 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	50.4	40.4	49.7	39.6	50.9	40.7	50.3	39.8	55	45
Avg	52.6	42.2	51.7	41.7	52.6	42.3	52.0	41.9		
St. Deviatton	1.4	0.8	1.3	1.2	0.9	0.9	1.1	1.2		

B.R.Prasannakumar

Manager - Environment

Dalmia Cement (Bharat) Limited

Ariyalur Plant

Month	Kiln/Raw mill	Clinker cooler	Coal mill	Cement mill	Boiler ID fan	Norms for Cement
Apr/22	14.4	23.7	22.9	18.5	33.5	30/50
May/22	5.5	13.4	17.6	11.6	20.7	30/50
Jun/22	10.9	23.9	19.3	12.3	26.0	30/50
Jul/22	9.1	24.4	23.9	20.7	Not in Operational	30/50
Aug/22	11.0	21.4	20.2	16.7	Not in Operational	30/50
Sep/22	10.5	24.6	22.4	23.3	Not in Operational	30/50
Oct/22	15.6	24.6	23.3	19.20	Not in Operational	30/50
Nov/22	11.2	23.1	22.6	13.4	Not in Operational	30/50
Dec/22	12.8	23.4	22.6	24.3	Not in Operational	30/50
Jan/23	16.9	26.8	19.7	23.1	Not in Operational	30/50
Feb/23	18.7	24.6	20.5	22.9	Not in Operational	30/50
Mar/23	24.3	24.7	20.2	21.8	Not in Operational	30/50
Max	24.3	26.8	23.9	24.3	33.5	
Min	5.5	13.4	17.6	11.6	20.7	30/50
Avg	13.4	23.2	21.3	19.0	26.7	
St. Deviation	5.0	3.3	1.9	4.5	6.4	

Dalmia CHARAT ENTERPRISE

Dalmia Cement (Bharat) Limited

Ariyalur Plant

Month	Kiln/Raw mill	Clinker cooler	Coal mill	Cement mill	Boiler ID fan	Norms for Cement CPP
Apr/22	2.8	2.5	10.3	BDL	192.4	100/600
May/22	2.3	2.8	9.4	BDL	253.7	100/600
Jun/22	2.5	2.1	9.2	BDL	264.5	100/600
Jul/22	2.9	1.9	8.5	BDL	Not in Operational	100/600
Aug/22	2.3	2.2	8.8	BDL	Not in Operational	100/600
Sep/22	1.0	2.4	8.6	BDL	Not in Operational	100/600
Oct/22	2.3	2.0	8.9	BDL	Not in Operational	100/600
Nov/22	2.5	2.2	9.2	BDL	Not in Operational	100/600
Dec/22	2.7	2.4	10.3	BDL	Not in Operational	100/600
Jan/23	2.5	2.1	9.7	BDL	Not in Operational	100/600
Feb/23	2.7	2.3	9.5	BDL	Not in Operational	100/600
Mar/23	1.3	BDL	4.2	BDL	Not in Operational	100/600
Max	2.9	2.8	10.3	0.0	264.5	
Min	1.0	1.9	4.2	0.0	192.4	100/600
Avg	2.3	2.3	8.9	BDL	236.9	
St. Deviation	0.6	0.3	1.6	0.0	38.9	

Dalmia BURAN ENTERPRISE

Dalmia Cement (Bharat) Limited

Ariyalur Plant

Month	Kiln/Raw mill	Clinker cooler	Coal mill	Cement mill	Boiler ID fan	Norms for Cement / CPP
Apr/22	582.5	7.5	13.3	BDL	9.8	800/300
May/22	589.8	6.8	12.1	BDL	40.6	800/300
Jun/22	484.7	7.4	11.8	BDL	42.8	800/300
Jul/22	396.5	8.3	12.3	BDL	Not in Operational	800/300
Aug/22	592.5	9.6	11.7	BDL	Not in Operational	800/300
Sep/22	328.6	10.2	10.9	BDL	Not in Operational	800/300
Oct/22	295.0	10.5	10.3	BDL	Not in Operational	800/300
Nov/22	566.8	11.9	25.7	BDL	Not in Operational	800/300
Dec/22	720.9	10.5	28.9	BDL	Not in Operational	800/300
Jan/23	302.5	10.7	30.4	BDL	Not in Operational	800/300
Feb/23	398.1	13.5	35.6	BDL	Not in Operational	800/300
Mar/23	310.5	10.4	25.4	BDL	Not in Operational	800/300
Max	720.9	13.5	35.6	0.0	42.8	
Min	295.0	6.8	10.3	0.0	9.8	800/300
Avg	464.0	9.8	19.0	#DIV/0!	31.1	
St. Deviation	144.2	2.0	9.3	#DIV/0!	18.5	



Annexure - 2

ANNEXURE - 2

Dalmia Cement (Bharat) Limited



Department : Environment

Plant - Cement & CPP

Dalmia

SUMMARY REPORT OF AMBIENT AIR QUALITY
PARTICULATE MATTER (PM₁₀)
PERIOD: Apr 2022 - Mar 2023

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	78.6	68.2	73.1	74.3	76.2	75.3	
Min	58.3	53.8	64.8	60.8	63.6	64.9	100
Avg	65.5	60.0	69.7	66.8	71.1	71.0	100
St. Deviation	5.8	4.4	2.4	4.9	3.2	3.1	

SUMMARY REPORT OF AMBIENT AIR QUALITY PARTICULATE MATTER (PM_{2.5})
PERIOD: Apr 2022 - Mar 2023

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	30.3	36.1	35.2	38.6	37.5	
Min	22.8	24.3	30.4	24.7	26.7	29.1	60
Avg	27.9	27.1	33.3	30.3	33.6	34.2	00
St. Deviation	3.5	1.7	1.6	3.2	3.4	2.5	

SUMMARY REPORT OF AMBIENT AIR QUALITY
SULPHUR DIOXIDE (SO₂)
PERIOD: Apr 2022 - Mar 2023
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	32.5	31.5	34.6	33.6	36.5	37.7	
Min	22.8	24.5	26.6	29.7	27.9	29.7	80
Avg	27.5	27.3	29.5	31.2	32.8	33.2	
St. Deviation	3.1	2.2	2.4	1.2	2.5	2.4	

SUMMARY REPORT OF AMBIENT AIR QUALITY NITROGEN DIOXIDE (NO_x) PERIOD: Apr 2022 - Mar 2023 UNIT - µg/m³

Month	Eastern Boundary (Welgh 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	35.9	34.6	33.4	34.9	36.5	37.4	
Min	23.7	27.6	28.5	27.8	29.5	29.5	80
Avg	29.3	30.9	31.3	31.4	33.8	34.3	
St. Deviat (0)	3.2	2,2	1.5	2.0	2.2	2.4	

B.R.Prasannakumar Manager - Environment

Dalmia Cement (Bharat) Limited

Ariyalur Plant

AAQS Locations ($PM_{2.5}$ - $\mu g/m^3$) for Apr 2022 - Mar 2023 DOC. No: SP-3;AM-7

Month	Eastern Boundary (HR Building)	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
Apr/22	31.5	26.8	30.4	24.7	36.2	29.1	60
May/22	32.4	27.9	31.8	26.4	38.6	31.2	60
Jun/22	31.4	24.3	33.2	28.4	37.3	33.6	60
Jul/22	30.5	26.8	31.6	30.1	35.6	34.9	60
Aug/22	27.1	24.6	32.5	27.7	34.2	36.5	60
Sep/22	25.8	27.3	33.6	29.4	31.3	33.7	60
Oct/22	24.7	25.3	34.5	30.2	33.5	35.6	60
Nov/22	22.8	27.5	32.5	33.7	35.6	34.1	60
Dec/22	23.6	28.4	33.6	35.2	31.7	36.8	60
Jan/23	24.8	30.3	34.6	32.3	29.8	35.5	60
Feb/23	28.4	27.5	36.1	32.2	26.7	37.5	60
Mar/23	31.6	28.1	34.6	33.6	32.8	31.6	60
Max	32.4	30.3	36.1	35.2	38.6	37.5	
Min	22.8	24.3	30.4	24.7	26.7	29.1	60
Avg	27.9	27.1	33.3	30.3	33.6	34.2	
SD	3.5	1.7	1.6	3.2	3.4	2.5	

Dalmia Cement (Bharat) Limited

Ariyalur Plant

AAQS Locations (PM₁₀ - µg/m³) for Apr 2022 - Mar 2023

DOC. No: SP-3;AM-7

Month	Eastern Boundary (HR Building)	SE - Boundary near Crusher Transport system	SW - Boundary near Limestone Stacker	Western boundary near substation	NW - Boundary near crsuher transfer tower	NE - Boundary near CPP WTP	Permissible Limit
Apr/22	68.4	60.5	64.8	62.7	70.5	64.9	100
May/22	65.5	57.6	67.6	61.5	73.6	66.8	100
Jun/22	62.7	53.8	70.3	63.7	76.2	68.5	100
Jul/22	63.8	56.7	72.4	60.8	74.1	71.5	100
Aug/22	60.3	59.2	67.3	62.1	70.3	72.8	100
Sep/22	62.6	57.6	70.5	64.8	69.2	71.5	100
Oct/22	60.5	54.8	67.6	66.8	72.0	73.6	100
Nov/22	58.3	60.5	69.5	70.3	73.2	69.3	100
Dec/22	64.5	61.8	71.5	74.3	70.7	72.6	100
Jan/23	66.7	62.5	73.1	71.8	69.5	74.3	100
Feb/23	73.9	66.7	70.5	69.7	63.6	75.3	100
Mar/23	78.6	68.2	71.6	73.4	70.8	70.3	100
Max	78.6	68.2	73.1	74.3	76.2	75.3	
Min	58.3	53.8	64.8	60.8	63.6	64.9	100
Avg	65.5	60.0	69.7	66.8	71.1	71.0	
SD	5.8	4.4	2.4	4.9	3.2	3.1	

Dalmia Cement (Bharat) Limited

Ariyalur Plant

AAQS Locations (NO_x - µg/m³) for Apr 2022 - Mar 2023

DOC. No: SP-3;AM-7

Month	Eastern Boundary (HR Building)	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
Apr/22	30.2	32.4	29.7	27.8	34.7	29.5	80
May/22	28.6	30.7	30.5	29.7	36.3	31.8	80
Jun/22	27.5	28.4	32.8	31.7	35.3	37.4	80
Jul/22	26.4	29.5	33.4	34.9	36.5	35.9	80
Aug/22	23.7	30.3	31.2	30.5	31.9	34.3	80
Sep/22	26.8	27.6	30.6	31.7	33.2	36.8	80
Oct/22	29.5	28.4	28.5	34.3	33.2	34.5	80
Nov/22	30.7	32.1	32.3	32.7	36.1	35.2	80
Dec/22	29.7	33.5	33.4	29.3	34.4	34.9	80
Jan/23	30.1	34.6	31.4	30.7	33.2	36.3	80
Feb/23	35.9	31.5	30.5	32.4	29.5	34.1	80
Mar/23	32.8	31.7	31.8	30.6	31.2	30.7	80
Max	35.9	34.6	33.4	34.9	36.5	37.4	
Min	23.7	27.6	28.5	27.8	29.5	29.5	80
Avg	29.3	30.9	31.3	31.4	33.8	34.3	
SD	3.2	2.2	1.5	2.0	2.2	2.4	

Dalmia Cement (Bharat) Limited Ariyalur Plant

Month	Eastern Boundary (HR Building)	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
Apr/22	23.2	25.7	34.6	30.4	32.7	30.5	80
May/22	24.8	26.5	32.3	30.1	34.8	29.7	80
Jun/22	22.8	25.3	31.6	31.4	32.9	33.8	80
Jul/22	23.8	24.5	29.5	33.6	34.3	34.8	80
Aug/22	28.3	25.2	27.1	29.7	36.5	37.7	80
Sep/22	30.4	29.5	29.6	31.3	32.8	35.7	80
Oct/22	27.9	25.3	26.6	31.7	33.6	32.8	80
Nov/22	28.5	29.4	28.3	31.5	34.2	31.6	80
Dec/22	30.1	28.4	29.5	32.7	33.1	35.1	80
Jan/23	29.4	31.5	27.5	29.7	32.5	32.8	80
Feb/23	32.5	27.5	29.7	31.8	27.9	33.7	80
Mar/23	28.4	28.2	27.5	30.8	28.4	30.3	80
Max	32.5	31.5	34.6	33.6	36.5	37.7	
Min	22.8	24.5	26.6	29.7	27.9	29.7	80
Avg	27.5	27.3	29.5	31.2	32.8	33.2	
SD	3.1	2.2	2.4	1.2	2.5	2.4	V



Annexure - 3



ULR No: TC858222000007320F

Report No

EN23030080-02

Report Date

10 April 2023

SAMPLE DRAWN 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

Amblent Air Quality

Sampling Date & Time

29 to 30 Mar 2023

Sample No

EN23030000-02

Sample Received on

09.40am to 09.40 am 03 April 2023

Sampling Location

Near Steel Yard

Test Started on

03 April 2023

Sample Condition

Fit for Analysis

Test Completed on

10 April 2023

Relative Humidity

58%

Ambient Temperature

32°C

IS 5182 Part V & XIV Sampling Procedure

Test Results

SI.No	Test Name	Test Method	Results	Units	Requirement as per NAAQS Specification
1	Sulphur Dioxide as SO ₂	IS 5182 (Part 2):2001	12.3	μg/m³	90
2	Nitrogen Dioxide as NO ₂	IS 5182 (Part 6):2006	24.6	µg/m³	80
3	Particulate Matter (PM 10)	IS 5182 (Part 23):2006	59,8	μg/m³	100
4	Particulate Matter (PM 2.5)	GL/EN/SOP/062	23.6	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(LOQ: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 NH ₃	GL/EN/SOP/057	BDL(DL:20.0)	μg/m³	400
9	Benzene	GL/EN/SOP/08	BLQ(LOQ:4.0)	μg/m³	
10	Benzo (a)Pyrene (Particulate Phase)	GL/EN-INS/SÖP/09	BLQ(LOQ:0.03)	ng/m³	20
11	Arsenic as As	IS 5182 (Part 22):2004	BLQ(LOQ:2.0)	ng/m³	
12	Nickel as Ni	IS 5182 (Part 22):2004	BLQ(LOQ:2.0)	ng/m³	15

Remarks

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

Authorize E. PRITHIVIRAJAN LAB MANAGER

#6/1, ist Floor, Sri Jothi Complex, Murugesan Street, Balavinayagar Nagar, Arumbakkam, Chennai - 600106.

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GLens Innovation Labs Pvt Ltd.



TEST REPORT

ULR No: TC858222000007319F

Report No

EN23030080-01

Report Date

10 April 2023

SAMPLE DRAWN 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 Mar 2023

Sample No

EN23030080-01

Sample Received on

09.30am to 09.30 am

Sampling Location

Near O & M Colony

03 April 2023 03 April 2023

Sample Condition

Fit for Analysis

Test Started on

Relative Humidity

58%

Test Completed on

10 April 2023

Sampling Procedure

IS 5182 Part V & XIV

Ambient Temperature

32°C

Test Results

S1.No	Test Name	Test Method	Results	Units	Requirement as per NAAQS Specification
1	Sulphur Dioxide as SO ₂	IS 5182 (Part 2):2001	13.6	μg/m³	80
2	Nitrogen Dioxide as NO ₂	IS 5182 (Part 6):2006	21.8	μg/m³	80
3	Particulate Matter (PM 10)	IS 5182 (Part 23):2006	56.5	µg/m³	100
4	Particulate Matter (PM 2.5)	GL/EN/SOP/062	21.2	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(LOQ: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 NH ₃	GL/EN/SOP/057	BDL(DL:20.0)	μg/m³	400
9	Benzene	GL/EN/SOP/08	BLQ(LOQ:4.0)	μg/m³	*
10	Benzo (a)Pyrene (Particulate Phase)	GL/EN-INS/SOP/09	BLQ(LOQ:0.03)	ng/m³	le le
11	Arsenic as As	IS 5182 (Part 22):2004	BLQ(1.0Q:2.0)	ng/m³	- 12
12	Nickel as Ni	IS 5182 (Part 22):2004	BLQ(LOQ:2.0)	ng/m³	

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*

E. PRITHIVIRAJAN LAB MANAGER

#6/1, Ist Floor, Sri Jothi Complex, Murugesan Street, Balavinayagar Nagar, Arumbakkarn, Chennai - 600106.

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ULR No: TC858222000007318F

Report No

EN23030080-04

Report Date

10 April 2023

SAMPLE DRAWN 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 Mar 2023

Sample No

EN23030080-04

10.00am to 10.00 am

Sample Received on

Sampling Location

Near 110 KVA Sub station

Test Started on

03 April 2023

Sample Condition

Fit for Analysis

Test Completed on

03 April 2023

Relative Humidity

58%

10 April 2023

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	13.6	μg/m³	80
2	Nitrogen Dioxide as NO2	IS 5182 (Part 6):2006	25.9	µg/m³	80
3	Particulate Matter (PM 10)	IS 5182 (Part 23):2006	51.3	µg/m³	100
4	Particulate Matter (PM 2.5)	GL/EN/SOP/062	22.9	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(LOQ: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 NII3	GL/EN/SOP/057	BDL(DL:20.0)	μg/m³	400
9	Benzene	GL/EN/SOP/08	BLQ(LOQ:4.0)	μg/m³	
10	Benzo (a)Pyrene (Particulate Phase)	GL/EN-INS/SOP/09	BLQ(LOQ:0.03)	ng/m³	·
11	Arsenic as As	IS 5182 (Part 22):2004	BLQ(LOQ:2.0)	ng/m³	
12	Nickel as Ní	IS 5182 (Part 22):2004	BLQ(LOQ:2.0)	ng/m³	F#1

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

E. PRITHIVIRAJAN LAB MANAGER

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ULR No: TC858222000007317F

Report No

EN23030080-03

Report Date

10 April 2023

SAMPLE DRAWN 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 Mar 2023

Sample No

EN23030080-03

09.40am to 09.40 am

Sampling Location

Near Circular stack

Sample Received on

03 April 2023

Sample Condition

Fit for Analysis

Test Started on

03 April 2023

Relative Humidity

58%

Test Completed on

10 April 2023

Sampling Procedure

IS 5182 Part V & XIV

Ambieut Temperature

32°C

Test Results

SI.No	Test Name	Test Method	Results	Units	Requirement as per NAAQS Specification
1	Sulphur Dioxide as SO2	IS 5182 (Part 2):2001	12.6	μg/m³	80
_ 2	Nitrogen Dioxide as NO ₂	IS 5182 (Part 6):2006	23.9	μg/m³	80
3	Particulate Matter (PM 10)	IS 5182 (Part 23):2006	58.5	μg/m³	100
4	Particulate Matter (PM 2.5)	GL/EN/SOP/062	25.9	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(LOQ: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 NH ₃	GL/EN/SOP/057	BDL(DL:20.0)	μg/m³	400
9	Benzene	GL/EN/SOP/08	BLQ(1.0Q:4.0)	tig/m³	
10	Benzo (a)Pyrene (Particulate Phase)	GL/EN-INS/SOP/09	BLQ(LOQ:0.03)	ng/m³	-
11	Arsenic as As	IS 5182 (Part 22):2004	BLQ(LOQ:2.0)	ng/m³	•
12	Nickel as Ni	IS 5182 (Part 22):2004	BLQ(LOQ:2.0)	ng/m³	136

: 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

E. PRITHIVIRAJAN LAB MANAGER

#6/1,Ist Floor, Sri Jothi Complex, Murugesan Street, Balavinayagar Nagar, Arumbakkam, Chennai – 600106.

H6/I_IST Floor, Str Joth Complex, Murugesan Street, Balavinayagar magar, Accuminate and Conditions:

The Test Results Relate only to the Items tested. The Test Report Shell not be reproduced in full or part without the written approval of DVIL.* The test items will not be retained for more than 15 days from the date of Issue of text report excepts in the case as required by the application regulations. *The Laboratory's Responsibility under this report is limited to proven will alwaysers and will in a case be more than the invoiced amount.

A Satisfactory sat report in no way implies that the product so tested is approved by Nation. Laboratory is not responsible for the submitted to proven by National States and will not be the submitted of the Invoiced amount.

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ULR No: TC858222000007322F

Report No

EN23030000-06

Report Date

10 April 2023

SAMPLE DRAWN BY LABORATORY

Customer Name

: M/S. Dalmia Cements (Bharat) Ltd

Customer Address

SF-630 Thamaraikulam Village, Arlyalur, Tamilnadu-621705

Sample Name

: Ambient Air Quality

Sample Description

Ambient Air Quality

Sampling Date & Time

30 to 31 Mar 2023

Sample No

EN23030080-06

09.45am to 09.45am

Sampling Location

Near CPP boller

Sample Received on

03 April 2023

Sample Condition

: Fit for Analysis

Test Started on

03 April 2023

Relative Humidity

: 58%

Test Completed on

10 April 2023

Sampling Procedure

IS 5182 Part V & XIV

Ambient Temperature

31.6°C

Test Results

SI.No	Test Name	Test Method	Results	Units	Requirement as per NAAQS Specification
1	Sulphur Dioxide as SO ₂	IS 5182 (Part 2):2001	13.3	μg/m³	80
2	Nitrogen Dioxide as NOz	IS 5182 (Part 6):2006	23.6	μg/m³	80
3	Particulate Matter (PM 10)	IS 5182 (Part 23):2006	50.8	μg/m³	100
4	Particulate Matter (PM 2.5)	GL/EN/SOP/062	21.6	µg/m³	60
5	Ozone as O ₃	IS 5182 (Part 9):1974	BDL(DL:20.0)	μg/m ³	100
6	Lead as Pb	IS 5182 (Part 22):2004	BLQ(LOQ: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 NH ₃	GL/EN/SOP/057	BDL(DL:20.0)	μg/m³	400
9	Benzene	GL/EN/SOP/08	BLQ(LOQ:4.0)	μg/m³	#/
10	Benzo (a)Pyrene (Particulate Phase)	GL/EN-INS/SOP/09	BLQ(LOQ:0.03)	ng/m³	-
11	Arsenic as As	IS 5182 (Part 22):2004	BLQ(LOQ:2.0)	ng/m³	
12	Nickel as Ni	IS 5182 (Part 22):2004	BLQ(LOQ:2.0)	ng/m³	-

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

Authorized Signature

E. PRITHIVIRAJAN
LAB MANAGER

#6/1,ist Floor, Sri Jothi Complex, Murugesan Street, Balavinayagar Nagar, Arumbakkam, Chennai – 600106.

Terms and Consideran:

The Test Report Seal of the Test Report Shall not be reproduced in full or part without the written approval of BVIL.

The Test Results Relate only to the Items tested.

The Test Report Results Relate only to the Items tested.

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WARNING: Attention is drawn to the limitations of the Liability, indemnification and jurisdictional issues established there in any holder of their ducument is advised that information contained hareon reflex the company's findings of the time of its intervention only and within the limits of client's instructions, if any. The company's sole responsibility is to its client and this document does not example the parties to a transaction from exercising all their rights and philippings under the transaction ducument.





ULR No: TC858222000007321F

Report No

EN23030080-05

Report Date

10 April 2023

SAMPLE DRAWN 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

30 to 31 Mar 2023

Sample No

EN23030080-05

09.45am to 09.45am

Sampling Location

Near coal crusher

Sample Received on

03 April 2023

Sample Condition

Fit for Analysis

Test Started on

03 April 2023

Relative Humidity

58.1%

Test Completed on

10 April 2023

Sampling Procedure

IS 5182 Part V & XIV

Ambient Temperature

31.6°C

Test Results

SI.No	Test Name	Test Method	Results	Units	Requirement as per NAAQS Specification
1	Sulphur Dioxide as SO ₂	IS 5182 (Part 2):2001	14.6	μg/m³	80
2	Nitrogen Dioxide as NO ₂	IS 5182 (Part 6):2006	26.9	µg/m³	80
3	Particulate Matter (PM 10)	IS 5182 (Part 23):2006	53.9	µg/m³	100
4	Particulate Matter (PM 2.5)	GL/EN/SOP/062	20.9	μg/m³	60
5	Ozone as O ₃	IS 5182 (Part 9):1974	8DL(DL:20.0)	μg/m³	100
6	Lead as Pb	IS 5182 (Part 22):2004	BLQ(LOQ: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 NH ₃	GL/EN/SOP/057	BDL(DL:20.0)	μg/m³	400
9	Benzene	GL/EN/SOP/08	BLQ(LOQ:4.0)	μg/m³	H
10	Benzo (a)Pyrene (Particulate Phase)	GL/EN-INS/SOP/09	BLQ(LOQ:0.03)	ng/m³	(4)
11	Arsenic as As	IS 5182 (Part 22):2004	BLQ(LOQ:2.0)	ng/m³	(A)
12	Nickel as Ni	IS 5182 (Part 22):2004	BLQ(LOQ:2.0)	ng/m ³	(4)

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*

Authorized E. PRITHIVIRAJAN LAB MANAGER

#6/1,lst Floor, Sri Jothi Complex, Murugesan Street, Balavinayagar Nagar, Arumbakkarn, Chennai -- 600106.

Tarms and Conditions:

* The Test Results Relate only to the Items tested.* The Test Report Shall not be reproduced in full or part without the written approval of BVIL.* The test (terms will not be reteined for more than 15 days from the date of Shue 31 test rejoit excepts in the case as required by the application regulations. * The Leschatory a Repositibility under this report is invited to proven winth heighter and will in he case the mixe than the invalence of the invalence of the product so resided a approved by MABL. * Laboratory is not responsible by the authentistry of proceedings of the strephota.

**A Statifactory that report in no way implies that the product so resided a approved by MABL. * Laboratory is not responsible by the outhernorthy of proceedings of the strephota.

**WARNING: Alternition is drawn to the limitations of the Liability, indemnification and jurisdictional issues established there in any holder of their decument is advised that information contained hereon relieve the company's sold responsibility to to its client and this document does not under the instructions, it any. The company's sold responsibility to to its client and this document does not under the instructions.



ULR No: TC858222000007316F

Report No

EN23030080-08

Report Date

10 April 2023

Sample drawn by

Laboratory

Customer Name

M/S. Dalmia Cements (Bharat) Ltd

Customer Address

SF-630 Thamaraikulam Village, Ariyalur, Tamilnadu-621705

Sample Name

Amblent Air Quality

Sample Description

Ambient Air Quality

Sampling Date & Time

30 to 31 Mar 2023 10.30am to 10.30am

Sample No

EN23030080-08

Sample Received on

03 April 2023

Sampling Location

Near HR Building Fit for Analysis

Test Started on

03 April 2023

Sample Condition Relative Humidity

57.9%

Test Completed on

10 April 2023

Ambient Temperature

31.6°C

Sampling Procedure

IS 5182 Part V & XIV

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	12.0	μg/m³	80
2	Nitrogen Dioxide as NO ₂	IS 5182 (Part 6):2006	27.2	μg/m³	80
3	Particulate Matter (PM 10)	IS 5182 (Part 23):2006	51.5	μg/m³	100
4	Particulate Matter (PM 2.5)	GL/EN/SOP/062	27.2	μg/m³	60
5	Ozone as O ₃	IS 5182 (Part 9):1974	BDL(DL:20.0)	μg/m ³	100
6	Lead as Pb	IS 5182 (Part 22):2004	BLQ(LOQ:0.002)	μg/m³	1
7	Carbon Monoxíde as CO (1 hour)	IS 5182 (Part 10):1999	BDL(DL:1.14)	mg/m³	4
8	Ammonia as NH ₃	GL/EN/SOP/057	BDL(DL;20.0)	μg/m³	400
9	Benzene	GL/EN/SOP/08	BLQ(LOQ:4.0)	μg/m³	
10	Benzo (a)Pyrene (Particulate Phase)	GL/EN-INS/SOP/09	BLQ(LOQ:0.03)	ng/m³	-
11	Arsenic as As	IS 5182 (Part 22):2004	BLQ(LOQ:2.0)	ng/m³	
12	Nickel as Ni	IS 5102 (Part 22):2004	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*

E. PRITHIVIRAJAN LAB MANAGER

#6/1, Ist Floor, Sri Jothi Complex, Murugesan Street, Balavinayagar Nagar, Arumbakkam, Chennai – 600106.

Terms and Conditions:

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WARNING: Alternation is drawn to the limitations of the Labolity, indemonstration and productional issues established there is any backet of their document is advised that information reports that the company's findings at the time of its intervention only and widon the limits of ellent's instructions, if any. The company's sole responsibility is to its client and this document does not wanted by a trace that from exercising all their maths and obligations under the laborations.



GLens Innovation Labs Pvt Ltd



TEST REPORT

ULR No: TC858222000007323F

Report No

EN23030080-07

Report Date

10 April 2023

SAMPLE DRAWN 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

30 to 31 Mar 2023

Sample No

EN23030080-07

10,15am to 10,15am

Sampling Location

Near WTP

Sample Received on

03 April 2023

Sample Condition

Fit for Analysis

Test Started on

03 April 2023

Relative Humidity

58.1%

Test Completed on

10 April 2023

Sampling Procedure

IS 5182 Part V & XIV

Ambient Temperature

31.6°C

Test Results

SI.No	Test Name	Test Method	Results	Units	Requirement as per NAAQS Specification
1.	Sulphur Dioxide as SO ₂	IS 5182 (Part 2):2001	11.6	μg/m³	80
2	Nitrogen Dioxide as NO ₂	IS 5182 (Part 6):2006	28.1	μg/m³	80
3	Particulate Matter (PM 10)	IS 5182 (Part 23):2006	57.9	μg/m³	100
4	Particulate Matter (PM 2.5)	GL/EN/SOP/062	26.3	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(LOQ: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 NH ₃	GL/EN/SOP/057	BDL(DL:20.0)	μg/m³	400
9	Benzene	GL/EN/SOP/08	BLQ(LOQ:4.0)	μg/m³	
10	Benzo (a)Pyrene (Particulate Phase)	GL/EN-INS/SOP/09	BLQ(LOQ:0.03)	ng/m³	*
11	Arsenic as As	IS 5182 (Part 22):2004	BLQ(LOQ:2.0)	ng/m³	
12	Nickel as Ní	IS 5182 (Part 22):2004	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



E. PRITHIVIRAJAN LAB MANAGER

#6/1,4st Floor, Sri Jothi Complex, Murugesan Street, Balavinayagar Nagar,Arumbakkam, Chennai = 600106.

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GLens Innovation Labs Pvt Ltd.



TEST REPORT

ULR NO: TC858223000001473P

M/S.Dalmia Cements (Bharat) Ltd

SF-630 Thamaraikulam Village, Ariyalur, Tamiinadu-621705

Test Report Number

EN23020034-01

Report Date

21 Feb 2023

Lab Code

EN23020034-01

Page

1 to 02

Sample Name

Stack Emission

Received on

13 Feb 2023

Commenced on

13 Feb 2023

Sample Location

Line-1 Kiln

Customer Reference

Test Request Form Dated 10.02.2023

Completed on

21 Feb 2023

Sampled on

10.02,2023 (1.00 PM to 06:00 PM)

Sampled by

Glens Innovation Labs Pvt Ltd

Parameters	Unit	EMISSION STANDARDS	Procedure	RESULTS AT 10% OXYGEN LEVEL
Stack Temperature	К	NA	IS 11255 Part 3: 2008	365*
Velocity of the flue gas	m/sec	NA	EPA method 1-3: 1991	15.60*
Volume of the gas discharged	Nm³/hr	NA	IS 11255 (Part 3) :2018	714572*
Oxygen as O ₂	% v/v	NA NA	GL/EN/SOP/149	11.60*
Carbon Dioxide as COz	% v/v	NA NA	GL/EN/SOP/149	16.40*
Carbon Monoxide as	mg/ Nm³	NA	GL/EN/SOP/149	167
Sulphur Dioxide as SO ₂	mg/Nm³	100	EPA 6: 1991	BDL(DL:3.0)
Oxides of Nitrogen as NOx	mg/Nm³	800	GL/EN/SOP/149	157
Particulate Matter	mg/Nm³	30	GL/EN/SOP/113 (EPA 5): 1991	22.80
Total Organic carbon	mg/Nm³	1.0	EPA Method 21(PID)	3.70
Lead as Pb	mg/m³	NA	EPA method- 29: 1991	BDL(DL:0.03)
Cadmium as Cd	mg/m³	NA	EPA method- 29: 1991	BDL(DL:0.03)
Copper as Cu	mg/m³	NA	EPA method- 29: 1991	BDL(DL:0.03)
Nickel as Ni	mg/m³	NA	EPA method- 29: 1991	BDL(DL:0.03)
Selenium as Se	mg/m³	NA	EPA method- 29 : 1991	BDL(DL:0.03)
Antimony as Sb	mg/m³	NA	EPA method- 29: 1991	BDL(DL:0.03)



Authorized Signature E. PRITHIVIRAJAN LAB MANAGER

#6/1,1st Floor, Sri Jothi Complex, Murugesan Street, Balavinayagar Nagar, Arumbakkam, Chennai - 600,106.

Forms and Conditions:

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Report No : EN23020034-01

Report Date: 21 Feb 2023

Parameters	Unit	EMISSION STANDARDS	Procedure	RESULTS AT 10% OXYGEN LEVEL
Mercury as Hg	mg/m³	0,05	EPA Method 29:1991	BDL(DL:0.03)
Arsenic as As	mg/m³	NA	EPA Method 29:1991	BDL(DL:0.03)
Total Chromium as Cr	mg/m³	NA	EPA Method 29:1991	BDL(DL:0.03)
Vanadium as V	mg/m³	NA	EPA Method 29:1991	BDL(DL:0.03)
Manganese as Mn	mg/m³	NA	EPA Method 29:1991	0.020
Thallium as Tl	mg/m³	NA	EPA Method 29:1991	BDL(DL:0.03)
Cd+Tl +their Compounds	mg/Nm³	0.05	EPA Method 29:1991	BDL(DL:0.03)
Sb+As+Pb+Cr+Co+Cu+Mn+Ni+V+their	mg/Nm³	0.5	EPA Method 29:1991	0.021
Edition of the compounds	mg/Nm³	0.05	EPA Method 29:1991	BDL(DL:0.03)
Hydrogen Chloride (HCL)	mg/Nm ³	10	GL/EN/SOP/153	BDL(DL:0.02)
V. I Elizada (UE)	mg/Nm³	1	GL/EN/SOP/154	BDL(DL:0.02)
Dioxin and Furan ##	ngTEQ/ Nm³	0.1 gelis	EPA method- 23A	Less than 0.01
DIDUM RIM LAIME OF			1	_

Note: ## Dioxin and Furan Subcontracted to Eurofins Group Lab

* RESULTS AT EFFECTIVE OXYGEN LEVEL

BDL: Below Detection Limit, DL: Detection Limit End of Report.....



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E. PRITHIVIRAJAN LAB MANAGER

#6/1, Ist Floor, Sri Jothi Complex, Murugesan Street, Balavinayagar Nagar, Arumbakkam, Chennai – 600106.

ROA, IST FIDOR, SIN JOHN COMPLEX, With agosts the technical field or past without the written approval of Glens. * The test starms will not be retained for more than 15 days from the date of the Test Report is field or cold to the Items tested.* The Test Report Shall not be reported in full or past without the written approval of Glens. * The test starms will not be retained for more than 15 days from the date of the Test Report is field or proven will of negligence and will in no case be more than the invoiced amount. Its set of the substance of the test report is not way limited to proven will of negligence and will in no case be more than the invoiced amount. *A Satisfactory test report in not way limited that the problems as tested is a spreaded by All. *Laboratory is not responsible for the substance of the focus of the





ULR No: TC858222000007018F

Report No

EN23030080-26

Report Date

10 April 2023

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

EN23030080-26

Sampling Date

30 Mar 2023

Sample Identification

Cooler stack

Sample Received on

03 April 2023

Sample Condition

Test Started on

03 April 2023

Sampling Procedure

Fit for Analysis GL/EN/SOP/111

Test Completed on

10 April 2023

Test result

S.No	T'est Name	Test Method	Results	Units	Limit as per CPCE Standard
1	Stack Temperature	IS 11255 (Part -3):2008	568	К	•
2	Velocity	BPA Method 1-3	14.8	m/sec	-
3	Volume of Gas Discharge	IS 11255 (Part -3):2008	263311	Nm³/hr	
4	Oxygen as O ₂	GL/EN/SOP/149	20.8	%	-
5	Carbon Monoxide as CO	GL/EN/SOP/149	BDL(DL:1.14)	ıng/Nm³	Ne T
6	Carbon Dioxide as CO2	GL/EN/SOP/149	0.1	%	
7	Particulate Matter	GL/EN/SOP/113	19.8	mg/Nm³	30
8	Sulphur Dioxide as SO ₂	EPA Method 6	BDL(DL:3.0)	mg/m³	24
9	Oxides Of Nitrogen as NO ₂	GL/EN/SOP/149	BDL(DL:2.0)	mg/Nm³	Ve.

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

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

> E. PRITHIVIRAJAN LAB MANAGER

#6/1, ist Floor, Sri Jothi Complex, Murugesan Street, Balavinayagar Nagar, Arumbakkam, Chennal — 600106.

Held is the company's furting at the time of its intervention only and witton the limits of chert's instructions, if any, the company's sole responsibility is to its client and this document the initiations of the Libility, indemnification and provided instructions, if any, the company's sole responsibility is to its client and this document the initiations of the Libility, indemnification and provided instructions, if any, the company's sole responsibility is to its client and this document the initiations of the Libility, indemnification and provided instructions, if any. The company's sole responsibility is to its client and this document the initiations of the Libility indemnification and provided instructions, if any. The company's sole responsibility is to its client and this document the initiations of the initiations of the Libility indemnification and provided instructions, if any. The company's sole responsibility is to its client and this document the initiation from meaning all their rights and unlighteness under the transaction decument.







TEST REPORT

ULR No: TC858222000007018F

Report No

EN23030080-23

Report Date

10 April 2023

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

EN23030080-23

Sampling Date

30 Mar 2023

Sample Identification

Coal Mill-01

Sample Received on

03 April 2023

Sample Condition

Fit for Analysis

Test Started on

03 April 2023

Sampling Procedure

GL/EN/SOP/111

Test Completed on

10 April 2023

Test result

S.No	Test Name	Test Method	Results	Units	Limit as per CPCB Standard
1	Stack Temperature	IS 11255 (Part -3):2008	338	К	
2	Velocity	EPA Method 1-3	10,1	m/sec	9
3	Volume of Gas Discharge	IS 11255 (Part -3):2008	98621	Nm³/hr	
4	Oxygen as O ₂	GL/EN/SOP/149	10.71	%	20
5	Carbon Monoxide as CO	GL/EN/SOP/149	104	mg/Nm³	-
6	Carbon Dioxide as CO ₂	GL/EN/SOP/149	18.5	%	
7	Particulate Matter	GL/EN/SOP/113	26.3	mg/Nm³	30
8	Sulphur Dioxide as SO ₂	EPA Method 6	BDL(DL:3.0)	mg/m³	*
9	Oxides Of Nitrogen as NO ₂	GL/EN/SOP/149	510	mg/Nm³	

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

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

> E. PRITHIVIRAJAN LAB MANAGER

#6/1,Ist Floor, Sri Jothi Complex, Murugesan Street, Balavinayagar Nagar, Arumbakkam, Chennai – 600105.

Tarms and Conditions:

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TEST REPORT

ULR No: TC858222000007018F

Report No

EN23030080-25

Report Date

: 10 April 2023

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

EN23030080-25

Sampling Date

30 Mar 2023

Sample Identification

Cement mill

Sample Received on

03 April 2023

Sample Condition

Fit for Analysis

Test Started on

03 April 2023

Sampling Procedure

: GL/EN/SOP/111

Test Completed on

10 April 2023

Test result

S.No	Test Name	Test Method	Results	Units	Limit as per CPCB Standard
1	Stack Temperature	IS 11255 (Part -3):2008	394	К	
2	Velocity	EPA Method 1-3	18.80	m/sec	(*
3	Volume of Gas Discharge	IS 11255 (Part -3):2008	310257	Nm³/hr	5-6
4	Oxygen as O ₂	GL/EN/SOP/149	20.8	%	List III
5	Carbon Monoxide as CO	GL/EN/SOP/149	BDL(DL:1.14)	mg/Nm³	244
6	Carbon Dioxide as CO2	GL/EN/SOP/149	0.1	%	7
7	Particulate Matter	GL/EN/SOP/113	20.7	mg/Nm³	30
8	Sulphur Dioxide as SO ₂	EPA Method 6	BDL(DL:3.0)	mg/m³	
9	Oxides Of Nitrogen as NO ₂	GL/EN/SOP/149	BDL(DL:2.0)	mg/Nm³	

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

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

E. PRITHIVIRAJAN

LAB MANAGER

#6/1, lst Floor, Sri Jothi Complex, Murugesan Street, Balavinayagar Nagar, Arumbakkam, Chennal — 600106

Terms and Conditions:

The Test Results Related by the Dates Associated the proof code in full or part without the written expensed of GVIL.* The test is not swell not be reported and of the respect to the Dates Report Shall not be reproduced in full or part without the written approach of GVIL.* The test is not will not be retained for more than 15 days from the date of the respect to the control of the respect to the same test the respect to the







TEST REPORT

ULR No : TC858222000007018F

Report No

EN23030080-27

Report Date

10 April 2023

Sample drawn by

Laboratory

Customer Name

M/S. Dalmia Cements (Bharat) Ltd

Customer Address

SF-630 Thamaraikulam Village, Arlyalur, Tamilnadu-621705

Sample Description

Stack Emission

Sample No

EN23030080-27

Sampling Date

31 Mar 2023

Sample Identification

Packer stack -01

Sample Received on

03 April 2023

Sample Condition

Fit for Analysis

Test Started on

03 April 2023

Sampling Procedure

GL/EN/SOP/111

Test Completed on

10 April 2023

Test result

S.No	Test Name	Test Method	Results	Units	Limit as per CPCE Standard
1	Stack Temperature	IS 11255 (Part -3):2008	306	К	
2	Velocity	EPA Method 1-3	19.1	m/sec	-
3	Volume of Gas Discharge	IS 11255 (Part -3):2008	51792	Nm ³ /hr	¥
4	Oxygen as O ₂	GL/EN/SOP/149	20.8	%	-
5	Carbon Monoxide as CO	GL/EN/SOP/149	BDL(DL:1.14)	mg/Nm³	
6	Carbon Dioxide as CO2	GL/EN/SOP/149	0.1	%	*
7	Particulate Matter	GL/EN/SOP/113	10.9	mg/Nm³	30
8	Sulphur Dioxide as SO ₂	EPA Method 6	BDL(DL:3.0)	mg/m³	A
9	Oxides Of Nitrogen as NO ₂	GL/EN/SOP/149	BDL(DL:2.0)	mg/Nm³	

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

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

> E. PRITHIVIRAJAN LAB MANAGER

#5/1, Ist Floor, Sri Jothi Complex, Murugesan Street, Balavinayagar Nagar, Arumbakkam, Chennai — 600106.

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GLens Innovation Labs Pvt ACCREDITED AS PER ISO/IEC 17025 : 2017, CERTIFIED AS PER ISO 2001:2015 & ISO 45001 : 2018

TEST REPORT

ULR No: TC858222000007018F

Report No

EN23030080-29

Report Date

: 10 April 2023

Sample drawn by

Laboratory

Customer Name

M/S. Dalmia Cements (Bharat) Ltd

Customer Address

SF-630 Thamaralkulain Village, Ariyalur, Tamilnadu-621705

Sample Description

Stack Emission

Sample No

EN23030080-29

Sampling Date

31 Mar 2023

Sample Identification

Packer stack -03

Sample Received on

03 April 2023

Sample Condition

Fit for Analysis

Test Started on

03 April 2023

Sampling Procedure

GL/EN/SOP/111

Test Completed on

10 April 2023

Test result

S.No	Test Name	Test Method	Results	Units	Limit as per CPCE Standard
1	Stack Temperature	IS 11255 (Part -3):2008	306	К	.5
2	Velocity	EPA Method 1-3	21.00	m/sec	
3	Volume of Gas Discharge	IS 11255 (Part ~3):2008	56160	Nm³/hr	*
4	Oxygen as O2	GL/EN/SOP/149	20.8	%	
5	Carbon Monoxide as CO	GL/EN/SOP/149	BDL(DL:1.14)	mg/Nm ³	-
6	Carbon Dioxide as CO2	GL/EN/SOP/149	0.1	%	-
7	Particulate Matter	GL/EN/SOP/113	12.7	mg/Nm³	30
8	Sulphur Dioxide as SO ₂	EPA Method 6	BDL(DL:3.0)	mg/m³	
9	Oxides Of Nitrogen as NO ₂	GL/EN/SOP/149	BDL(DL:2.0)	mg/Nm³	

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

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

E. PRITHIVIRAJAN LAB MANAGER

#6/List Floor, Sri Jothi Complex, Murugesan Street, Balavinayagar Nagar, Arumbakkam, Chennal - 600106.

Terms and Conditions:

Terms and Conditions:

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TEST REPORT

ULR No: TC858222000007018F

Report No

EN23030080-28

Report Date

: 10 April 2023

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

EN23030080-28

Sampling Date

31 Mar 2023

Sample Identification

Packer stack -02

Sample Received on

03 April 2023

Sample Condition

Pit for Analysis

Test Started on

03 April 2023

Sampling Procedure

: GL/EN/SOP/111

Test Completed on

10 April 2023

Test result

S.No	Test Name	Test Method	Results	Units	Limit as per CPCB Standard
1	Stack Temperature	IS 11255 (Part -3):2008	306	К	4
2	Velocity	EPA Method 1-3	19.8	m/sec	
3	Volume of Gas Discharge	IS 11255 (Part ~3):2008	52929	Nm³/hr	
4	Oxygen as O ₂	GL/EN/SOP/149	20.8	%	
5	Carbon Monoxide as CO	GL/EN/SOP/149	BDL(DL:1.14)	mg/Nm³	
6	Carbon Dioxide as CO ₂	GL/EN/SOP/149	0.1	%	-
7	Particulate Matter	GL/EN/SOP/113	14.0	mg/Nm³	30
8	Sulphur Dioxide as SO ₂	EPA Method 6	BDL(DL:3.0)	mg/m³	*
9	Oxides Of Nitrogen as NO ₂	GL/EN/SOP/149	BDL(DL:2.0)	mg/Nm³	5

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

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

E. PRITHIVIRAJAN LAB MANAGER

#6/1,lst Floor, Sri Jothi Complex, Murugesan Street, Balavinayagar Nagar, Arumbakkarn, Chennai – 600106.

HACL SET FLOOR, SET TOTAL COMPLEX, CHARGES AT SECRET, CARACTER SET OF THE ANALYSIS AND ANALYSIS ANALYSIS AND ANALYSIS AND







TEST REPORT

ULR No: TC858222000007021Fto 7029F

Sample code

EN23030080-09 TO 14

Report Date

10 April 2023

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

: 30 Mar 2023

Sample No

EN23030080-09 TO 14

Sample Received on

03 April 2023

Sample Condition

Fit for Analysis

Test Started on

03 April 2023

Test Completed on

10 April 2023

Test result

S.No	Sample Location	Test Name	Test Method	Results	Units
1	Coal Yard	Respirable Suspended Particulate matter	N10SH-0600	88.9	μg/ιn³
2	ESP Cooler	Respirable Suspended Particulate matter	NIOSH-0600	60.3	μg/m³
3	Coal Tippler	Respirable Suspended Particulate matter	NIOSH-0600	71.8	μg/m³
4	Packing Plant	Respirable Suspended Particulate matter	NIOSH-0600	68.6	μg/m³
5	LS Crusher	Respirable Suspended Particulate matter	NIOSH-0600	80.6	μg/m³
6	Cement mill	Respirable Suspended Particulate matter	NIOSH-0600	78.6	μg/m³

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



E. PRITHIVIRAJAN LAB MANAGER

16/1, Ist Floor, Sri Jothi Complex, Murugesan Street, Balavinayagar Nagar, Arumbakkam, Chennai - 600106.

Terms and Conditions:

The Test Results Belate only to the Items tested. The Test Report Shall not be reproduced in full or part without the written approval of ICVIL.* The Lest items will not be retained for more than 15 days from the date of Island at the report shape to the case of the Condition of ICVIL.* The Lest items will not be retained for more than 15 days from the date of Island at the report shape to the Condition of Items and will in the case be more than the invoiced amount.

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Annexure - 4

Green Belt







Plantation: 68,934 Nos (34% Plant area)

96% Sustenance Rate

Individual Zone Owner Responsibility

Plant in the Garden & not Garden in the plant

Good Biodiversity, 94 Acre

Development of Biodiversity Park

Cement FUTURE TODAY

2500 plants covering 32 varieties planted in 6.5 acre land for attracting birds



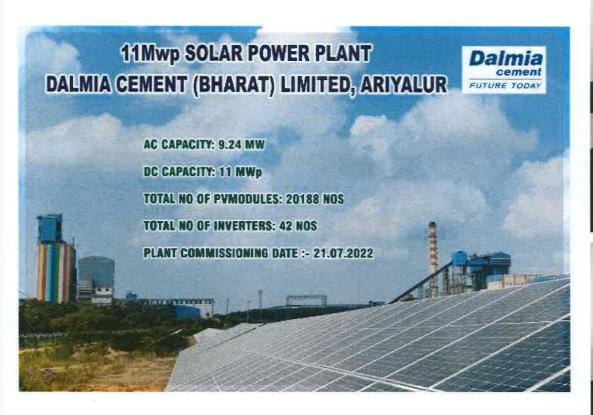






Renewable Energy – Solar Power Plant











Annexure - 5



GOVERNMENT OF TAMIL NADU WATER RESOURCES DEPARTMENT

From:

Er. S.Prabakaran, B.E., Chief Engineer, WRD, State Ground & Surface Water Resources Data Centre Tharamani, Chennai 600 113. Phone: 91-44-2254223 (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-2/197/Renewal of NOC /Trichy/ 2023 dated: /L. .03.2023.

Sir.

Sub: "Renewal of No Objection Certificate" for drawal of ground water to M/s. Dalmia Cement (Bharat) Ltd., Govindapuram and Ottakovil Village, Ariyalur Firka, Ariyalur Block, Ariyalur Taluk, Ariyalur District – 8th Renewal of NOC - Reg.

Ref: 1.This Office Lr.No. OT8/AG-2/273/renewal of NOC/Trichy/2022 dt:25.04.2022

2. The firm Renewal of NOC application date: 16.02.2023

3.This Office Lr.No:71DD(G)/AG-VI/Renewal of NOC/2023Dt:16.02.2023

4.SE,GWC,ThanjavurLr.No:65^s/AG/T.F44C(TRY)/NOC/GWC/TNJ/2022 Dt:27.02.2023

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., 21.02.2024 without fail. If you fail to apply for renewal of NOC, it will be treated as "illegal" and informed to District Monitoring Committee to seal the bore well in your unit as per Madras High Court Order, dt:20.03.2020 in WP.No.16299/2018.

Enclosure:

1. Renewal of No Objection Certificate & Conditions

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



Certificate No.197/2023 (R-8)

Dated: 14.03.2023

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 Firka, Ariyalur Block, Ariyalur Taluk, Ariyalur District 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-ord	Quantity Permitted		
No	Well / Bore Well & SF. No	Village/Firka	Latitude	Longitude	for pumping in LPD	
1,	TW1/630/1 2B	Govindapuram/Ariyalur	11 ⁰ 10'85" N	79 ⁰ 06'01" 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 ⁰ 10'59" N	79 ⁰ 05'96" E	3,73,500	
4.	TW4/158/0 5	Ottakovil/Ariyalur	11 ⁰ 11'17" N	79 ⁰ 06'01" E	3,73,500	
5,	TW5/162/1 1	Ottakovil /Ariyalur	11º 10'23" N	79 ⁰05'19'' E	3,87,000	
				Total	16,20,000	

This renewal certificate is valid from 22.02.2023 to 21.02.2024 and the Renewal of NOC is issued under the conditions laid down.

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

Renewal of NOC Conditions pertaining to M/s. Dalmia Cement (Bharat) Limited, Arivalur 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.
- This Certificate is applicable for drawal of permitted Quantity of ground water only and not for transportation.
- The Company should install 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 WRD inspect the site/premises, perusal of drawal records and water quality observations should be allowed.
- 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 levy/charges 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.
- 11 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
- 13 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.
- 15 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 &SWRDC, WRD, Tharamani, Chennai-113.



Annexure - 6

CSR Priorities in Ariyalur



Sustainability Oriented Priorities

- One Million Livelihoods mission
 Journey 2030
- 20 times water positivity well before 2025



Need Oriented Priorities

- Drinking water
- Infrastructure support for Education, sports and health sectors
- Village amenities



Soil and Water Conservation





Village Pond De-silting at Thamaraikulam and Kamarajapuram





Bore well recharge pit at Eluppaiyur and Kamrajapuram

Dalmia cement



RO Plant 25 LPH at Edayathankudi Govt school



Bore well for Drinking water at Keelakaangiyanur

Livestock support camps









Veterinary Camps at Kallankurichi, Manakkudi, Srinivasapuram







Farmers Training program

Rabies Awareness and Vaccination Camp

Social Infrastructure





Fencing at Ottakovil PHC



Plantation drive at Thamaraikulam Village



Medical Check up at Ariyalur



Furniture to Thamaraikulam and Asthinapuram Schools

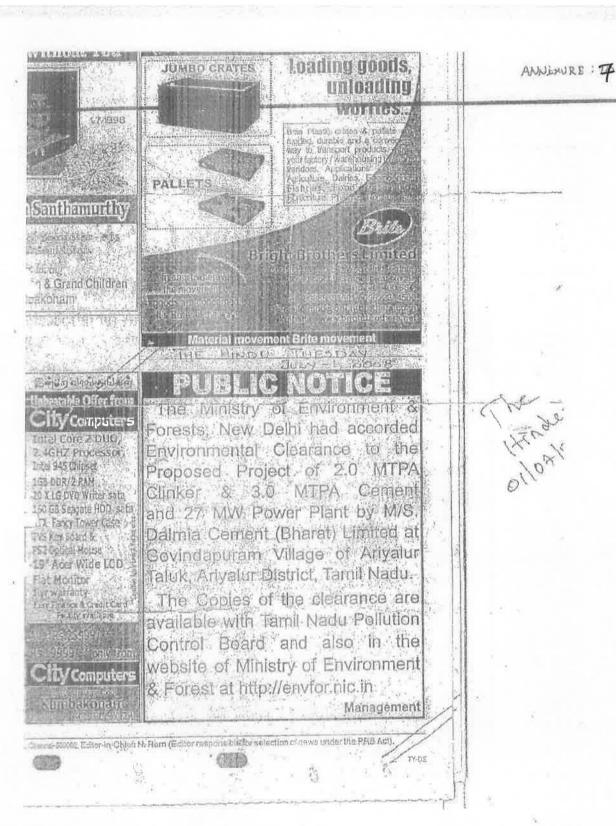




Fans and Cupboards to Edaiyathankudi School



Annexure - 7



ஆக்கோளும் பூறிறாரு கோல்களை பிரிமுக ஆதிரையின்றுக் அதிரையின் அதிரையின் பிரிம்குகாமடைப்

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தென்னர் 6 பேர் கொள்வ வில் தெற்புடைய மேலுவிட் பேண்டு பொலிசிலில் விரம்க சேரு வருகின்றனர். மற்றும் வனத்துறை அமைச்சகம், டால்மியர் கோந்த) கூட நிறுவனத்தற்கு அரியலூர் மாவட்டம் (தமிழ்தாடு) அரியலூர் தாலுக்காகிலுள்ள கோவிந்தபுரம் சிராமத்தில் 2.0 MTPA கிளிங்கர், 3.0 MTPA சிலெண்டமற்றும் 27 MW பவர் பிளான்ட் ஆகியவை உள்ளடக்கிய உத்தேசிக்கப்பட்டுள்ள சிலமண்ட் ஆலை நிறுவ கற்றுக்கும் தொடர்பான ஒப்புதல் அளித்துள்ளது.

இந்த ஒப்புதலின் நகல்கள், தமிழக மாசு கட்டுப்படு வளியத்திலும்' மற்றும் கற்றுச்சுழல் மற்றும் வனத்துறை அமைச்சக இணைய தனத்திலும் (http://envfor.nic.in) உள்ளது என்பதை அறியவும்.

மிர்வாகம்

ப்பப்படும்

spide da saidu duriu ga qu. rda gean upa, reit w seadea. Ist w seadea. Ist arb roughu e si Ursawa Adw gaugh.

நாழு செடுவின்பட்டு அடி நுறு மூரம் 155 வரு வி படுதிறது. அரசு தேரில் ம்மிக் முற்றை இருக் பண்றை அரசு திரில் ம் வுடன் வரட்டுக்க கூடிக் தேரிக்கில் கடிப்பட்ட புதி என்று பிரித்து புதிற்றுள்ள வரடிக் கேரும் அரசு செடிக்கு வறு அவர்க் முறையுள்

சு பஸ் ஜப்தி

ட்டிடு வழங்கப்பட்ட இதை கொடர்ந்து நேத அரசு பன் குப்தி ட்டது, உடனே போத் சுழக்பு ஒரு அட்ட அப்தேர்களில் தடிப்பு நட்டிய இரு அட்ட கிறு பரசு இரு காரம் அது கிறு நட்டியிர் முற்றை நடித்து கோட்டில் நடித்து கோடியிரு நடித்து கோட்டில் குடித்து கோட்டு குடித்து கோட்டுக்கு குடித்து கோட்டுக்கு குடித்து கோட்டுக்கு குடித்து கோட்டுக்கு குடுக்குத்து கோட்டுக்குத்து குடுக்குத்து கோட்டுக்குத்து குடுக்குத்து கோட்டுக்குத்து குடுக்குத்து கோட்டுக்குத்து குடுக்குத்து கோட்டுக்குத்து குடுக்குத்து கோட்டுக்குத்து पहिंदी insuit प्राप्तापृत्वेद्धर्वा

நீதாஞ்சலி மெழக்கள் செள்டர்

GMC **⊗**

உலக மருத்துவர் தினமான இன்று

அமைத்து மருத்துவர்களுக்கும்

வைது உள்ளம் கணிந்த முன்னாழ்த்துங்களை தெரிகாத்துக் கொவிகின்றோர்.









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Annexure - 8

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



Annexure - 9



Green Champion Award from Tamil Nadu Pollution Control Board







Consolation award for Circular Economy and Environment function from NCCBM in 2022







Excellent Energy efficient consecutive for 11 years from CII



Energy Leadership Award from CII in 2022





Winner in 22nd Annual Greentech Environment Award 2022

Apex India Platinum Award 2022, Environnent Excellence







Industry 4.0 Award (Smart operations) 2021, Certificate of Appreciation



Platinum Award from Green Crest - Green Maple Foundation





IconSWM-CE Excellence Award for Plastic & RDF Category (Diamond)







Thank you