

cement! sugar! refractories! power!

DCBL/RGP/ENV/ ECHC//298/2022

Date: 01.06.2022

To
The Additional Director, Government of India
Ministry of Environment, Forest & Climate Change (I.A. Division)
Indira Paryavaran Bhavan, Aliganj, Jorbagh Road
New Delhi – 110003

Sub:- Submission of six monthly compliance report (October 2021 to March 2022) of Environment Clearance letter F. No. J-11011/352/2005- 1A II (I) dated 5th April 2007.of M/s Dalmia Cement (Bharat) Limited, Rajgangpur, Tehsil-Rajgangpur, District – Sundargarh, Odisha.

Ref:- Environment Clearance letter F. No. J-11011/352/2005- 1A II (I) dated 5th April 2007.

Dear Sir,

With reference to above letter, we enclose herewith the six monthly compliance report (Ending March, 2022) of conditions stipulated in the Environmental Clearance for the Cement plant.

Thanking you

For, Dalmia Cement (Bharat) Limited, Rajgangpur

Dr.Satish Mishra Sr.G.M(Env.)/C.

Encl: As above

Copy to:

1. The Chairman,
Central Pollution Control Board
Parivesh Bhavan
CBD – cum- Office Complex
East Arjun Nagar
NEW DELHI – 110032

2. The Director (S)
Government of India
Ministry of Environment and Forest
Eastern Regional Office
A/3, Chandrasekharpur
BHUBANESWAR – 751023

3. The Chairman, State Pollution Control Board, Orissa Parivesh Bhavan, A/118, Nilakanthnagar, Unit – VIII BHUBANESWAR - 751012

SIX MONTHLY COMPLIANCE REPORT

(OCTOBER, 2021 TO MARCH, 2022)

OF

ENVIRONMENT CLEARANCE LETTER NO.

J-11011/352/2005-1A II (I) dated 5th April 2007 BY

DALMIA CEMENT (BHARAT) LIMITED

RAJGANGPUR – 770017

DIST- SUNDARGARH

ODISHA

Six monthly compliance report (October, 2021 to March, 2022) of conditions stipulated in Environmental Clearance Letter No. F. No. J-11011/352/2005-1A II (I) dated 5th April 2007, by MoEF&CC for Dalmia Cement (Bharat) Limited, Rajgangpur.

A. SPECIAL CONDITION

SI. No.	Description of Conditions	Compliance Status
i	The gaseous and particulate matter emissions from various units shall confirm to the standards prescribed by the Orissa State Pollution Control Board (OSPCB). At no time the particulate emissions shall exceed OSPCB. 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 is shut down automatically.	a. Complied. b. The compliance status of Stack emission is given below. The reading taken from different location are stipulated with respect to the standard prescribed within the norms of emission level. We have installed all the pollution control equipment in order to meet new emission standards, as revised by Gazette Notification G.S.R. 497 (E) dtd. 10 th May, 2016. Online CEMS (Continuous Emission Monitoring system) have been installed and facility for transmitting online data to OSPCB/CPCB. The gaseous and particulate matter emissions most of time are within the prescribed limits. Action plan for the compliance of notified emission norms, as per the directions under Sec. 5 of The EP Act, 1986 have been submitted for further improvement. We have been also conducted third party monitoring through an accredited agency empaneled by OSPCB. Stack emission monitoring monthly average report is given in Annexure-I Additional measures are being taken for operating practices of pollution control equipment. Tripping in kiln ESP is minimized. Facility have been provided to control emission in the event of any tripping or kiln shut down condition.
ii	Continuous on-line monitoring system to monitor gaseous emission shall be controlled with in 50 mg/Nm3 by installing adequate air pollution control system. On-line monitoring data shall be submitted to the OSPCB and CPCB regularly.	Complied. Continuous stack monitoring system has already been installed. On-line data through CEMS and CAAQMS are being transmitted to OSPCB/CPCB. Stack monitoring and Ambient air quality monitoring reports are submitted to SPCB in every month and half yearly basis to Regional office of MoEF&CC, Bhubaneswar.
iii	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 emission shall be carried out regularly in consultation with OSPCB and report submitted to the OSPCB quarterly and to the ministry's Regional office at Bhubaneswar half yearly. One ambient air quality monitoring station shall be installed in	 a. Monitoring of ambient air quality is carried out regularly in consultation with SPCB. The values are within the prescribed limit as stipulated under EPA/SPCB. Similarly, data on ambient noise level are within the stipulated norm, as furnished in Annexure-I b. Monitoring of ambient air quality and stack emission is carried out regularly in consultation with OSPCB and report is being submitted to the OSPCB on monthly basis and to the Ministry's Regional Office at Bhubaneswar on be half-yearly basis.

(6)	downwind direction.	
iv	The company shall install adequate dust collection and extraction system to control fugitive dust emission at various transfer points, raw mill handling (unloading, conveying, transporting, stacking), vehicular movement, bagging and packing areas etc. ESP to Cooler, cyclone & bag filter to kiln, CVRM and bag filters shall be provided in the coal mill and cement mills to control air emissions less than 50 mg/ Nm3. Jet pulse bag filters/ dust extraction system shall be provided to control fugitive emissions in raw material, coal handling & cement grinding areas. Dust suppression system at unloading hoppers, discharge gate of silos and totally closed operations for all belt conveyors & storage etc shall be used. Raw materials shall stored in closed roof sheds & clinker in silos.	 Air pollution control measures & systems are adopted: a. Dust collection extraction system (Bag filters) have been installed and maintained at various transfer points such loading/ unloading areas. Raw materials are transported through closed conveyor belts. b. Coal handling, cement grinding units are equipped with bag filters to control fugitive dust emissions. c. Bag house installed for CVRM & Coal mill to maintate stack emission as per standard. d. Road sweeping machines are deployed on regulate cleaning of roads. Internal roads are concreted and wate sprinkling on the roads are also carried out. e. Belt conveyors are thoroughly hood covered. f. Clinker is stored in clinker silo & transported by hate adopter system. g. Raw material handling & its storing is carried out a closed shed. h. Water sprinkling dust suppression systems are installed raw material handling yards.
V	Asphalting/concerning of roads and water spray all around the coals stockpiles shall be carried out to control fugitive emissions.	Concreting and black-topping or paving with hard solid rejec Refractory bricks are completed. Road sweeping machines deployed & water spray in coal stockpiles are being done as per requirement to control the fugitive emission.
vi	Total water requirement from the Nakti nala and ground water source shall not exceed 5,788 m3/d including 785 m3/d respectively and prior permission for the drawl of ground water from the State water resources/Minor irrigation Deptt./CGWA shall be obtained. All the treated waste water shall be recycled and reused in the process, dust suppression, green belt development and other plant related activities etc. No process wastewater shall be discharged outside the factory premises and 'zero' discharge shall be adopted. Domestic effluent treated in Sewage Treatment Plant (STP) shall be used for green belt development within the plant and colony area.	 It is ensured that the water consumption shall not exceed the quantity mentioned and ground water source respectively. The treated water of ETP is reused. There is no effluent discharged outside the factory premises and "zero" discharge is adopted. Domestic sewerage is treated in STP. The treated water used for green belt development.
vii	All the cement dust collected from pollution control devices shall be recycled and reutilized in the process. Char from sponge iron plant of M/s. OCL shall be used as raw material in manufacturing cement and mixed with feed. Hazardous waste viz. Used oil from gear boxes and automotive batteries, etc shall be properly stored in a designated area and sold to authorized	 a.) Dust collected from pollution control devices is recycled and reutilized in the process. b.) Char is used as raw material, as per availability. c.) Used oil & batteries are stored at earmarked area and disposed off through the authorized recyclers/ re processors.

	recyclers/ re processors.	\					
Viii	The company must harvest the rainwater	Following rain	water harvesting	projects are existing			
	from the roof tops and storm water	_	-	water drain have been			
	drains to recharge the ground water and		ant & near CPP.	water drain have been			
	use the same water for the various	_		s being practices in some			
	activities of the project to conserve fresh	part of colony	_	s being practices in some			
	water.			the week to a function			
	water.			rom the roof top of raw			
ix	Cross halt shall be developed in at land			also being carried out.			
IX	Green belt shall be developed in at least		=	leveloped in and around o			
	28.0 ha out of total 91.15 ha land in	plant. Distributing					
	consultation with the local DFO as per						
	the CPCB guidelines.	with cumulative fi					
			AR WISE PLANTA	ATION (CUMULATIVE			
		STATUS)	Lvo mpana				
		YEAR	NO. TREES	PLANTATION IN &			
		TT	PLANTED	AROUND OF			
		Up to	148655	INDUSTRY/ SAPLING			
		march,2007-08		DISTRIBUTED			
		2008-2009	155155	2300			
		2009-2010	162401	4800			
		2010-2011	171757	6964			
		2011-2012	177957	9964			
		2012-2013	183957	14164			
		2013-2014	190246	19664			
	-	2014-2015	196660	27664			
		2015-2016	203892	92664			
		2016-2017	209442	130364			
		2017-2018	212431	138922			
		2018-2019	214819	139922			
		2019-2020	245077	139922			
		2020-2021	255577	139922			
		2021-2022	288478	151922			
		Di					
X	The company shall undertake eco-	1 -	•	ing eco-development wor			
	development measures including	in the surrounding	area.				
	community welfare measures in the						
	project area.						
xi	All the recommendation mentioned in	It is being complie	d				
	the Charter on the Corporate						
	Responsibility for Environmental						
	Protection (CREP) shall be strictly						
	followed.						
xii	High calorific hazardous waste shall be	High calorific haza	ardous waste is be	eing burnt in cement kiln.			
	used as fuel in the cement kiln.	_		handling for co-processing			
	Accordingly, provision to be made in the			Provision were made to			
	kiln.			dous waste, as per the			
		statute guideline.		, F			
	<u> </u>						

xiii	Prior permission from the State Forest	The plant was constructed over non-forest land and an
	Department shall be obtained regarding	application to the Forest Deptt. Already submitted in this
	likely impact of proposed expansion on	regard.
	the reverse forest viz. Gudiali RF (3km),	
	Tunmura RF (6.5 km) Chudia RF (6.5	
	km) and Hathidhara R.F. (4 km) and	
	recommendations/ suggestion, if any	
	shall be implemented in a time bound	
	manner.	

B. GENERAL CONDITION

SI. No.	Description of conditions	Compliance Status			
i	The project authority must adhere to the stipulation made by Orissa State Pollution Control Board and State Government.	All condition laid by Orissa state pollution control board is strictly abiding to all stipulations.			
ii	No expansion or modification of the plant should be carried out without prior approval of this Ministry.	No expansion or modification have been made.			
iii	Adequate number of ambient air quality- monitoring stations shall be established in the downward direction as well as where maximum ground level concentration of SO2 and NOX are anticipated in consultation with the OSPCB. Data on ambient air quality and stack emission shall be regularly submitted to this Ministry including Regional Office at Bhubaneswar and OSPCB once in six months.	 a. Four numbers of ambient air quality monitoring stations are installed as per SPCB and CPCB guidelines. b. Data on ambient air quality and stack emission is submitted to SPCB/CPCB and MoEF&CC 			
iv	Industrial wastewater shall be properly collected, treated so as to confirm to the standards prescribed under GSR 422 (E) dated 19 th May 1993 and 31 st December 1993 or as amended from time to time. The treated waste water shall be recycled in the plant as well as utilization for plantation purposes.	a. Waste water generated in the plant is being treated in the effluent treatment plant (ETP). The last analysis report of ETP outlet [w.r.t GSR 422(E)] is given here under. S1. parameter ETP outlet treated water 1 PH value 7.3 2 Total suspended 9.5 solids (mg/l) 3 B.O.D (mg/l) 30.0 4 C.O.D (mg/l) 84.6 5 Oil & Grease <2.0 (mg/l) b. The treated water is utilized in the plant for machineries cooling, sprinkling on road & green belt development.			
V	The project authorities must strictly comply with the rules and regulations with regard to handling and disposal of hazardous waste in accordance with the Hazardous Waste (Management and Handling) Rules, 2003. Authorization from the OSPCB must be obtained for collection, storage, treatment and disposal of hazardous wastes.	Complied. Regular disposal of Hazardous waste, as per Rule are maintained and Form-IV is being submitted to OSPCB with required information.			
vi	The overall noise levels in and around the plant area	Noise monitoring is being carried out regularly			

s. Following data is given
cations. Detail report is
re-I
thly reports are being
ance report along with
ing submitted regularly.
fication, it is being sent by
fication, it is being sent by

ENVIRONMENTAL MONITORING REPORT

BASED ON DATA GENERATED

FROM

OCTOBER 2021 TO MARCH 2022

FOR

DALMIA CEMENT (BHARAT) LIMITED

At/Po: RAJGANGPUR, District: SUNDARGARH, ODISHA

ΑT

CEMENT PLANT (LINE - 1 & LINE - 2)

Prepared by: Environment Management Department Dalmia Cement (Bharat) Limited, Rajgangpur, Odisha

MONTHLY AVERAGE VALUE FOR PM EMISSION FROM STACKS:

6, 1, 4, 1, 1,		Partic	ulate matter e	mission in mg	/Nm3	
Stack attached to	Oct-21	Nov-21	Dec-21	Jan-22	Feb-22	Mar-22
Cement VRM-1 B/F	22.14	18.23	9.93	9.96	10.04	18.15
Cement VRM-2 B/F	19.7	23.34	15.34	20.09	19.71	24.01
Cement VRM-3 B/F	11.91	12.59	9.92	11.63	11.6	11.22
Kiln & VRM BAG HOUSE,L-I	Under Shutdown	10.56	7.72	12.76	12.79	9.22
Coal Mill B/F, L-I	Under Shutdown	15.83	7.41	13.76	13.92	14.53
Cooler ESP, L-I	Under Shutdown	22.42	9.48	8.56	8.42	18.91
Kiln & VRM BAG HOUSE ,L-II	9.41	12.83	8.84	11.93	15.78	12.97
Coal Mill B/F, L-II	7.28	15.06	7.83	14.03	11.4	8.57
Cooler ESP, L-II	11.5	21.53	9.89	12.76	17.8	18.71

AMBIENT AIR AVG.DATA (FROM OCTOBER 2021 TO MARCH 2022)

Location of sampling station	SO2 (μg/m 3)	NOX(µg/m3	PM ₁₀ (μg/m 3)	PM _{2.5} (μg/m3)	Ozone (o3) (µg/m3)	Lead (Pb) (μg/m	CO (mg/m 3)	Ammon ia (NH3)	Benzene (C6H6) (µg/m3)	Benzo(a) Pyrene (BaP) – particula te phase	Arseni c (AS) (μg/m	Nickel (Ni) (μg/m
	<i>J</i> ,	,	3)		(mgms)	3)	3,	(μg/m3)	(με/ΙΙΙ3)	only (µg/m3)	3)	3)
Workshop building	5	15	47	18	< 20.0	< 0.4	< 0.1	60	< 0.5	< 0.1	< 0.2	< 12.0
Engineering hostel building	5	11	78	29	< 20.0	< 0.4	< 0.1	61	< 0.5	< 0.1	< 0.2	< 12.0
Near water harvesting area of CPP	5	11	79	29	< 20.0	< 0.4	< 0.1	86	< 0.5	< 0.1	< 0.2	< 12.0
Store building	5	20	68	26	< 20.0	< 0.4	< 0.1	71	< 0.5	< 0.1	< 0.2	< 12.0
Canteen building	5	20	88	34	< 20.0	< 0.4	< 0.1	60	< 0.5	< 0.1	< 0.2	< 12.0
Loco gate	6	17	57	22	< 20.0	< 0.4	< 0.1	97	< 0.5	< 0.1	< 0.2	< 12.0

NOISE AVG, DATA (FROM OCTOBER 2021 TO MARCH 2022)

	Sampling locations											
Particular	Store building	Engineering hostel building	Loco gate	Near canteen	OCL township/ colony	Workshop building	CCR building	Near water harvesting area of CPP				
Noise level(L day) during day time	67	59.5	67.3	55.6	58.7	60.5	69	60.5				
Noise level (L night) during night time	63	55.8	61.9	53.6	53.1	59.8	64	58.2				





TEST REPORT FOR STACK EMISSION MONITORING

ULR - TC681622000000674F

REPORT NO: CPL/R/SE/MAR-22/80

REPORT ISSUE DATE: 26.03.2022

FORMAT NO: CPL/FM/58

SAMPLE DRAWN BY CLEENVIRON PRIVATE LIMITED

Name of the Customer

Address of the Customer

Sample ID No

Name of Stack Monitored Stack Connected To

Shape of Stack Date of Sampling Time of Sampling

thod of Sampling

Sample Received on Date of Test

DALMIA CEMENT (BHARAT) LIMITED

RGP Cement Factory, Rajgangpur - 770017, Dist: Sundargarh, Odisha

CPL/SE/MAR-22/18

KILN & VRM LINE - 1 KILN VRM

Circular 07.03.2022

11:50 Hrs

IS 11255 (Part - 1), (Part - 2): 1985, RA 2019 & (Part - 7): 2005, RA 2017

07.03.2022

08.03.2022

Ambient Temperature in °C Stack Temperature in °C

Average Stack Gas Velocity in m/sec

Iso-kinetic Flow Rate in LPM

Duration of Sampling in minute

32

143

19.62

27 37

Particulate Matter Concentration Sulphur Dioxide as SO₂

Nitrogen Dioxide as NO₂

Results Obtained

: 07 mg/Nm³ 9.53 mg/Nm³ 324.4 mg/Nm³ **Permissible Limits**

30 ma/Nm³ 100 mg/Nm³

800 mg/Nm³

Darietared Office.

Authorized Signator Subhanga Praharaj Managing Director/QM

*****END OF TEST REPORT*****

Page 1 of 1

This report refers to the values obtained at the time of testing and results related to the item tested. This report may not be reproduced in part or full without written permission of the Company.

Consultant and Engineers in Environmental Pollution Control & Monitoring with NABL Accredited Laboratory.



TEST REPORT FOR STACK EMISSION MONITORING

ULR - TC681622000000673F REPORT NO: CPL/R/SE/MAR-22/79 FORMAT NO: CPLIFMISS

REPORT ISSUE DATE: 26.03.2022

SAMPLE DRAWN BY CLEENVIRON PRIVATE LIMITED

Name of the Customer

DALMIA CEMENT (BHARAT) LIMITED

Address of the Customer

RGP Cement Factory, Rajgangpur - 770017, Dist: Sundargarh, Odisha

Sample ID No Name of Stack Monitored

CPL/SE/MAR-22/20 Coal Mill B/F, Line – 1

Stack Connected To

Coal Mill Bag Filter

Shape of Stack
Date of Sampling
Time of Sampling

Circular 07.03.2022 12:47 Hrs

Method of Sampling

IS 11255 (Part - 1): 1985, RA 2019

Sample Received on Date of Test

07.03.2022 08.03.2022

Ambient Temperature in °C Stack Temperature in °C

34 74

Average Stack Gas Velocity in m/sec

Particulate Matter Concentration

7.82

Iso-kinetic Flow Rate in LPM

29

Duration of Sampling in minute

34

Results Obtained

08 mg/Nm³

Permissible Limits

30 mg/Nm³

p. Saveni

est Done By

Verified By

Authorized Signatory Subhanga Praharaj

Managing Director/QM

""END OF TEST REPORT""

Page 1 of 1

This report refers to the values obtained at the time of testing and results related to the item tested. This report may not be reproduced in part or full without written permission of the Company.

Danietared Office

1 A.z.





TEST REPORT FOR STACK EMISSION MONITORING

ULR - TC681622000000672F

REPORT NO: CPL/R/SE/MAR-22/78

FORMAT NO: CPL/FM/58

REPORT ISSUE DATE: 26.03.2022

SAMPLE DRAWN BY CLEENVIRON PRIVATE LIMITED

Name of the Customer

Address of the Customer

Sample ID No

Name of Stack Monitored Stack Connected To Shape of Stack

Date of Sampling Time of Sampling

Sample Received on

hod of Sampling

Date of Test

Ambient Temperature in °C

Stack Temperature in °C Average Stack Gas Velocity in m/sec

Iso-kinetic Flow Rate in LPM

Duration of Sampling in minute

DALMIA CEMENT (BHARAT) LIMITED

RGP Cement Factory, Rajgangpur - 770017, Dist: Sundargarh, Odisha

CPL/SE/MAR-22/19

Cooler ESP, Line - 1 Cooler, Line - 1

Circular 07.03,2022

15:05 Hrs

IS 11255 (Part - 1): 1985, RA 2019

07.03.2022 08.03.2022

36

285

9.03 20

50

Particulate Matter Concentration

Results Obtained

: 18 mg/Nm³

Permissible Limits

30 mg/Nm³

Test Done By

Subhanga Praharaj Managing Director/QM

""END OF TEST REPORT"

Page 1 of 1

This report refers to the values obtained at the time of testing and results related to the item tested. This report may not be reproduced in part or full without written permission of the Company.

Designated Office





TEST REPORT FOR STACK EMISSION MONITORING

ULR - TC681622000000675F

REPORT NO: CPL/R/SE/MAR-22/81

FORMAT NO: CPLIEMISS

REPORT ISSUE DATE: 26.03.2022

SAMPLE DRAWN BY CLEENVIRON PRIVATE LIMITED

Name of the Customer

Address of the Customer

Sample ID No.

Name of Stack Monitored

Stack Connected To Shape of Stack

Date of Sampling Time of Sampling

thod of Sampling

Sample Received on Date of Test

DALMIA CEMENT (BHARAT) LIMITED

RGP Cement Factory, Rajgangpur – 770017, Dist: Sundargarh, Odisha

CPL/SE/MAR-22/23

CVRM - 1, Line - 1 CVRM - 1 Bag filter

Circular 08.03.2022

12:17 Hrs

IS 11255 (Part – 1): 1985, RA 2019

08.03.2022

09.03.2022

Ambient Temperature in °C

Stack Temperature in °C

Average Stack Gas Velocity in m/sec Iso-kinetic Flow Rate in LPM

Duration of Sampling in minute

34

97

10.84

37

27

Particulate Matter Concentration

Results Obtained

19 mg/Nm³

Permissible Limits

30 mg/Nm³

Test Done By

Authorized Signatory

Subhanga Praharaj Managing Director/QM

****END OF TEST REPORT****

Page 1 of 1

This report refers to the values obtained at the time of testing and results related to the Item tested. This report may not be reproduced in part or full without written permission of the Company.

Ranistored Office





TEST REPORT FOR STACK EMISSION MONITORING

ULR - TC681622000000676F

FORMAT NO: CPLIFMISS

REPORT ISSUE DATE: 26.03.2022

REPORT NO: CPL/R/SE/MAR-22/82

SAMPLE DRAWN BY CLEENVIRON PRIVATE LIMITED

Name	of the	Customer	

Address of the Customer

Sample ID No. Name of Stack Monitored

Stack Connected To Shape of Stack

Date of Sampling Time of Sampling

thod of Sampling Sample Received on

Date of Test

DALMIA CEMENT (BHARAT) LIMITED

RGP Cement Factory, Rajgangpur - 770017, Dist: Sundargarh, Odisha

CPL/SE/MAR-22/24 CVRM - 2, Line - 1

CVRM - 2 Bag filter

Circular 08.03.2022 11:13 Hrs

IS 11255 (Part - 1): 1985, RA 2019

08.03.2022 09.03.2022

Ambient Temperature in ∘C	10	32
Stack Temperature in ∘C	9	93
Average Stack Gas Velocity in m/sec	*	8.47
Iso-kinetic Flow Rate in LPM	Ý	29
Duration of Sampling in minute		34

Particulate Matter Concentration

Results Obtained

: 23 mg/Nm³

Permissible Limits 30 mg/Nm³

Test Done By

Authorized Signatory Subhanga Praharaj

Managing Director/QM

""END OF TEST REPORT"

Page 1 of 1

This report refers to the values obtained at the time of testing and results related to the item tested. This report may not be reproduced in part or full without written permission of the Company.

Registered Office:





TEST REPORT FOR STACK EMISSION MONITORING

ULR - TC681622000000677F REPORT NO: CPL/R/SE/MAR-22/83 FORMAT NO: CPL/FM/58

REPORT ISSUE DATE: 26.03.2022

SAMPLE DRAWN BY CLEENVIRON PRIVATE LIMITED

Name of the Customer

Address of the Customer

Sample ID No Name of Stack Monitored

Stack Connected To Shape of Stack

Date of Sampling

hod of Sampling

Sample Received on

Time of Sampling

Date of Test

Ambient Temperature in °C

Stack Temperature in °C

Average Stack Gas Velocity in m/sec Iso-kinetic Flow Rate in LPM

Duration of Sampling in minute

DALMIA CEMENT (BHARAT) LIMITED

RGP Cement Factory, Rajgangpur - 770017, Dist: Sundargarh, Odisha

CPL/SE/MAR-22/25 CVRM - 3, Line - 1

CVRM - 3 Bag filter

Circular 08.03.2022

10:07 Hrs

IS 11255 (Part - 1): 1985, RA 2019

08.03.2022 09.03.2022

23

94 9.02

31 32

Particulate Matter Concentration

Results Obtained

07 mg/Nm³

Permissible Limits

30 mg/Nm³

Test Done By

Authorized Signatory Subhanga Praharaj Managing Director/QM

*****END OF TEST REPORT*****

Page 1 of 1

This report refers to the values obtained at the time of testing and results related to the item tested. This report may not be reproduced in part or full without written permission of the Company.

Registered Office:





TEST REPORT FOR STACK EMISSION MONITORING

ULR - TC681622000000681F REPORT NO: CPL/R/SE/MAR-22/87 FORMAT NO: CPL/FM/58

REPORT ISSUE DATE: 26.03.2022

SAMPLE DRAWN BY CLEENVIRON PRIVATE LIMITED

Name of the Customer

Address of the Customer

Sample ID No

Name of Stack Monitored Stack Connected To

Shape of Stack Date of Sampling

Sample Received on

Time of Sampling thod of Sampling

Date of Test

Ambient Temperature in °C Stack Temperature in °C

Average Stack Gas Velocity in m/sec

Particulate Matter Concentration

Iso-kinetic Flow Rate in LPM

Duration of Sampling in minute

Sulphur Dioxide as SO₂

Nitrogen Dioxide as NO₂

DALMIA CEMENT (BHARAT) LIMITED

RGP Cement Factory, Rajgangpur - 770017, Dist: Sundargarh, Odisha

CPL/SE/MAR-22/30

KILN & VRM RABH, LINE - 2

KILN VRM Circular

09.03.2022 14:33 Hrs

IS 11255 (Part - 1), (Part - 2): 1985, RA 2019 & (Part - 7): 2005, RA 2017

09.03.2022

10.03.2022

Results Obtained

: 12 mg/Nm³ 45.55 mg/Nm³

32

94

36

27

10.51

: 439.4 mg/Nm³

Permissible Limits

30 ma/Nm³ 100 mg/Nm³

800 mg/Nm³

Test Done By

Authorized Signatory Subhanga Praharaj

Managing Director/QM

""END OF TEST REPORT""

Page 1 of 1

This report refers to the values obtained at the time of testing and results related to the item tested. This report may not be reproduced in part or full without written permission of the Company.

Renietered Office





TEST REPORT FOR STACK EMISSION MONITORING

ULR - TC681622000000679F

REPORT NO: CPL/R/SE/MAR-22/85

FORMAT NO: CPLIFMIS8

REPORT ISSUE DATE: 26.03,2022

SAMPLE DRAWN BY CLEENVIRON PRIVATE LIMITED

Name of the Customer

Address of the Customer

Sample ID No Name of Stack Monitored

Stack Connected To Shape of Stack Date of Sampling

Time of Sampling thod of Sampling

Sample Received on Date of Test

DALMIA CEMENT (BHARAT) LIMITED

RGP Cement Factory, Rajgangpur - 770017, Dist: Sundargarh, Odisha

CPL/SE/MAR-22/31 Coal Mill B/F, Line - 2 Coal Mill Bag Filter

Circular 09.03.2022

15:29 Hrs IS 11255 (Part - 1): 1985, RA 2019

09.03.2022 10.03.2022

Ambient Temperature in °C 34 Stack Temperature in °C 73 Average Stack Gas Velocity in m/sec 8.89 Iso-kinetic Flow Rate in LPM 33 Duration of Sampling in minute 30

Particulate Matter Concentration

Results Obtained

06 mg/Nm³

Permissible Limits

30 mg/Nm³

Test Done By

Authorized Signatory Subhanga Praharaj

Managing Director/QM

*****END OF TEST REPORT*****

Page 1 of 1

This report refers to the values obtained at the time of testing and results related to the item tested. This report may not be reproduced in part or full without written permission of the Company.

Ranietorad Offica.





TEST REPORT FOR STACK EMISSION MONITORING

ULR - TC681622000000678F REPORT NO: CPL/R/SE/MAR-22/84

REPORT ISSUE DATE: 26.03.2022

SAMPLE DRAWN BY CLEENVIRON PRIVATE LIMITED

Name of the Customer

Address of the Customer

Sample ID No Name of Stack Monitored

Stack Connected To Shape of Stack

Date of Sampling Time of Sampling

thod of Sampling

Sample Received on Date of Test

DALMIA CEMENT (BHARAT) LIMITED RGP Cement Factory, Rajgangpur - 770017, Dist: Sundargarh, Odisha

CPL/SE/MAR-22/26 Cooler ESP, Line - 2

Cooler, Line - 2

Circular 08.03.2022 15:41 Hrs

IS 11255 (Part - 1): 1985, RA 2019

08.03.2022 09.03.2022

Ambient Temperature in °C 36 Stack Temperature in °C 128 Average Stack Gas Velocity in m/sec 7.32 Iso-kinetic Flow Rate in LPM 23 Duration of Sampling in minute 43

Particulate Matter Concentration

Results Obtained

16 mg/Nm³

Permissible Limits

30 ma/Nm³

Test Done By

Authorized Signatory Subhanga Praharai Managing Director/QM

*****END OF TEST REPORT*****

Page 1 of 1

This report refers to the values obtained at the time of testing and results related to the item tested. This report may not be reproduced in part or full without written permission of the Company.

Radistared Office





TEST REPORT FOR AMBIENT AIR QUALITY MONITORING

ULR - TC681622000000665F REPORT NO: CPL/R/AAQ/MAR-22/34

REPORT ISSUE DATE: 26.03.2022

SAMPLE DRAWN BY CLEENVIRON PRIVATE LIMITED

Name of the Customer:

M/s DALMIA CEMENT (BHARAT) LIMITED

Address of the Customer:

Sampling Method

At/Po: RAJGANGPUR, SUNDARGARH - 770017, ODISHA

IS: 5182 (Part - 2), (Part - 6) & (Part - 11), EN 12341

Environmental Conditions During Monitoring		ng Monitoring	: N	Min. Temp.: 17.3°C	Max	k. Temp.: 35.1°C	Min. RH: 25%	Max.	RH: 88%		
Sample ID No	:		CPL/AAQ/MAR-22/123								
Location of Sampling		Near Stores Building (Line – 1)									
Date of Sampling	1		07.03.2022 - 08.03.2022								
mpling Period	1		1005 – 0910 Hrs								
Time of Sampling	:			23.05 Hrs							
Sample Received on			08.03.2022								
Date of Test		08.03.2022 - 09.03.2022									

SI No	Parameters	Results Obtained	Unit	Method of Analysis	National Ambient Air Quality Standards, 2009 for Industrial, Residential, Rural & Other Area
1	PM 2.5	26	µg/m³	IS: 5182 (PART – 24) 2019	60 (24 Hours)
2	PM 10	68	µg/m³	IS: 5182 (PART – 23) 2006, RA 2017	100 (24 Hours)
3	Sulphur Dioxide (SO ₂)	05	µg/m³	IS: 5182 (PART - 2) 2001, RA 2017	80 (24 Hours)
4	Nitrogen Dioxide (NO ₂)	20	µg/m³	IS: 5182 (PART – 6) 2006, RA 2017	80 (24 Hours)
5	Ammonia (NH ₃)	71	µg/m³	IS: 5182 (PART - 25) 2018	400 (24 Hours)
6	Ozone (O ₃)	< 20	µg/m³	IS - 5182 (PART - 9) 1974, RA 2019	180 (1 Hour)

Test Done By



Awthorized Signatory Subhanga Praharaj Managing Director/QM

""END OF TEST REPORT""

Page 1 of 1

This report refers to the values obtained at the time of testing and results related to the item tested. This report may not be reproduced in part or full without written permission of the Company.

Ranistared Office

Consultant and Engineers in Environmental Pollution Control & Monitoring with Laboratory Facility.

TEST REPORT FOR AMBIENT AIR QUALITY MONITORING

REPORT NO: CPL/R/AAQ/MAR-22/34N

REPORT ISSUE DATE: 26.03.2022

SAMPLE DRAWN BY CLEENVIRON PRIVATE LIMITED

Name of the Customer:

M/s DALMIA CEMENT (BHARAT) LIMITED

Address of the Customer:

At/Po: RAJGANGPUR, SUNDARGARH - 770017, ODISHA

Sampling Method

IS: 5182 (Part - 2), (Part - 6) & (Part - 11), EN 12341

Environmental Conditions	During Monitorin	Min. Temp.: 17.3°C	Max. Temp.: 35.1°C	Min. RH: 25%	Max. RH: 88%				
Sample ID No		CPL	/AAQ/MAR-22/123						
Location of Sampling	;		Near Stores Building (Line - 1)						
Date of Sampling			3.2022 - 08.03.2022						
mpling Period			1005 – 0910 Hrs						
Time of Sampling		······································	23.05 Hrs						
Sample Received on	3		08.03.2022						
Date of Test	:	08.03.2022 - 09.03.2022							

SI No	Parameters	Results Obtained	Unit	Method of Analysis	National Ambient Air Quality Standards, 2009 for industrial, Residential, Rural & Other Area
1_	Lead (Pb)	< 0.4	µg/m³	IS: 5182 (PART – 22) 2004, RA 2019	1 (24 Hours)
2	Arsenic (As)	< 0.2	ng/m³	CPL/SOP/01/As, Issue No: 02, dtd.: 23.10.2017	6 (Annual)
3	Nickel (Ni)	< 12	ng/m³	IS: 5182 (PART – 26) 2020	20 (Annual)
4	Carbon Monoxide (CO)	< 0.1	mg/m ³	Electro-chemical Sensor Based Digital Monitor	4 (1 Hour)
5	Benzene (C ₆ H ₆)	< 0.5	µg/m³	IS: 5182 (PART – 11) 2006, RA 2017	5 (Annual)
6	Benzo(a)pyrene Particulate Phase only	< 0.1	ng/m³	IS : 5182 (PART – 12) 2004, RA 2014	1 (Annual)

Test Done By

Verified By

Authorized Signatory Subhanga Praharaj Managing Director/QM

"""END OF TEST REPORT

Page 1 of 1

This report refers to the values obtained at the time of testing and results related to the item tested. This report may not be reproduced in part or full without written permission of the Company.

Realstered Office:

Consultant and Engineers in Environmental Pollution Control & Monitoring with NABL Accredited Laboratory.



TEST REPORT FOR AMBIENT AIR QUALITY MONITORING

ULR - TC681622000000669F REPORT NO: CPL/R/AAQ/MAR-22/38

REPORT ISSUE DATE: 26,03,2022

SAMPLE DRAWN BY CLEENVIRON PRIVATE LIMITED

Name of the Customer:

M/s DALMIA CEMENT (BHARAT) LIMITED

Address of the Customer: Sampling Method

At/Po: RAJGANGPUR, SUNDARGARH - 770017, ODISHA

IS: 5182 (Part - 2), (Part - 6) & (Part - 11), EN 12341

Environmental Conditions	During I	Monitoring	: Min. Temp.: 17.3°C	Max. Temp.: 35.1°C	Min. RH: 25%	Max. RH: 88%
Sample ID No			СР	L/AAQ/MAR-22/122		
Location of Sampling	:	Near Canteen Building (Line – 1)				
Date of Sampling				3.2022 - 08.03.2022		
Campling Period				0921 – 0859 Hrs		
Time of Sampling				23.38 Hrs		-000
Sample Received on				08.03.2022		ayanay
Date of Test			08.0	3.2022 - 09.03.2022		

08.03.2022 - 09.03.2022

SI No	Parameters	Results Obtained	Unit	Method of Analysis	National Ambient Air Quality Standards, 2009 for Industrial, Residential, Rural & Other Area
1	PM 2.5	34	µg/m³	IS: 5182 (PART - 24) 2019	60 (24 Hours)
2	PM 10	88	µg/m³	IS: 5182 (PART - 23) 2006, RA 2017	100 (24 Hours)
3	Sulphur Dioxide (SO ₂)	05	µg/m³	IS: 5182 (PART - 2) 2001, RA 2017	80 (24 Hours)
4	Nitrogen Dioxide (NO ₂)	16	µg/m³	IS: 5182 (PART - 6) 2006, RA 2017	80 (24 Hours)
5	Ammonia (NH ₃)	60	µg/m³	IS: 5182 (PART - 25) 2018	400 (24 Hours)
6	Ozone (O ₃)	< 20	µg/m³	IS - 5182 (PART - 9) 1974, RA 2019	180 (1 Hour)

Authorized Signatory Subhanga Praharaj Managing Director/QM

"""END OF TEST REPORT"""

Page 1 of 1

This report refers to the values obtained at the time of testing and results related to the item tested. This report may not be reproduced in part or full without written permission of the Company.

Domintored Office

Consultant and Engineers in Environmental Pollution Control & Monitoring with Laboratory Facility.

TEST REPORT FOR AMBIENT AIR QUALITY MONITORING

REPORT NO: CPL/R/AAQ/MAR-22/38N

REPORT ISSUE DATE: 26.03.2022

SAMPLE DRAWN BY CLEENVIRON PRIVATE LIMITED

Name of the Customer :

M/s DALMIA CEMENT (BHARAT) LIMITED

Address of the Customer:

At/Po: RAJGANGPUR, SUNDARGARH - 770017, ODISHA

Sampling Method

IS: 5182 (Part - 2), (Part - 6) & (Part - 11), EN 12341

Environmental Conditions During Monitoring : Min. Temp.: 17.3°C | Max. Temp.: 35.1°C Min. RH: 25% Max. RH: 88%

Sample ID No		CPL/AAQ/MAR-22/122	
Location of Sampling		Near Canteen Building (Line – 1)	
Date of Sampling		07.03.2022 - 08.03.2022	
campling Period	:	0921 – 0859 Hrs	
Time of Sampling	:	23.38 Hrs	W
Sample Received on		08.03.2022	
Date of Test		08.03.2022 - 09.03.2022	

SI No	Parameters	Results Obtained	Unit	Method of Analysis	National Ambient Air Quality Standards, 2009 for Industrial, Residential, Rural & Other Area
1	Lead (Pb)	< 0.4	µg/m³	IS: 5182 (PART - 22) 2004, RA 2019	1 (24 Hours)
2	Arsenic (As)	< 0.2	ng/m³	CPL/SOP/01/As, Issue No: 02, dtd.: 23.10.2017	6 (Annual)
3	Nickel (Ni)	< 12	ng/m³	IS: 5182 (PART - 26) 2020	20 (Annual)
4	Carbon Monoxide (CO)	< 0.1	mg/m ³	Electro-chemical Sensor Based Digital Monitor	4 (1 Hour)
5	Benzene (C ₆ H ₆)	< 0.5	µg/m³	IS: 5182 (PART - 11) 2006, RA 2017	5 (Annual)
6	Benzo(a)pyrene Particulate Phase only	< 0.1	ng/m³	IS: 5182 (PART – 12) 2004, RA 2014	1 (Annual)

Test Done By

Authorized Signatory Subhanga Praharaj

Managing Director/QM

****END OF TEST REPORT****

Page 1 of 1

This report refers to the values obtained at the time of testing and results related to the Item tested. This report may not be reproduced in part or full without written permission of the Company.

Registered Office:

Consultant and Engineers in Environmental Pollution Control & Monitoring with NABL Accredited Laboratory.



TEST REPORT FOR AMBIENT AIR QUALITY MONITORING

ULR - TC681622000000668F REPORT NO: CPL/R/AAQ/MAR-22/37 FORMAT NO: CPL/FM/57

ORMAT NO. CELEMIST

REPORT ISSUE DATE: 26.03.2022

SAMPLE DRAWN BY CLEENVIRON PRIVATE LIMITED

Name of the Customer:

M/s DALMIA CEMENT (BHARAT) LIMITED

Address of the Customer: Sampling Method :

At/Po: RAJGANGPUR, SUNDARGARH - 770017, ODISHA

IS: 5182 (Part - 2), (Part - 6) & (Part - 11), EN 12341

Environmental Conditions During Monitoring		: Min. Temp.: 17.3°C	Max. Temp.: 35.1∘C	Min. RH: 25%	Max. RH: 88%		
Sample ID No	1:1		CPL	/AAQ/MAR-22/175			
Location of Sampling	:		Near Loco Gate (Line – 1)				
Date of Sampling		III I I I I I I I I I I I I I I I I I		3.2022 – 10.03.2022			
Cumpling Period				1730 – 1610 Hrs			
Time of Sampling				22.40 Hrs			
Sample Received on	5			10.03.2022			
Date of Test	1	10.03.2022 - 11.03.2022					

SI No	Parameters	Results Obtained	Unit	Method of Analysis	National Ambient Air Quality Standards, 2009 for Industrial, Residential, Rural & Other Area
1	PM 2.5	22	µg/m³	IS: 5182 (PART - 24) 2019	60 (24 Hours)
2	PM 10	57	µg/m³	IS: 5182 (PART - 23) 2006, RA 2017	100 (24 Hours)
3	Sulphur Dioxide (SO ₂)	06	µg/m³	IS: 5182 (PART – 2) 2001, RA 2017	80 (24 Hours)
4	Nitrogen Dioxide (NO ₂)	17	µg/m³	IS: 5182 (PART – 6) 2006, RA 2017	80 (24 Hours)
5	Ammonia (NH ₃)	97	µg/m³	IS: 5182 (PART – 25) 2018	400 (24 Hours)
6	Ozone (O ₃)	< 20	µg/m³	IS - 5182 (PART - 9) 1974, RA 2019	180 (1 Hour)

P. Casent Test Done By

Variet B

ROURKELA LIN

Authorized Signatory Subhanga Praharaj Managing Director/QM

""END OF TEST REPORT""

Page 1 of 1

This report refers to the values obtained at the time of testing and results related to the item tested. This report may not be reproduced in part or full without written permission of the Company.

Ranietared Office.

Consultant and Engineers in Environmental Pollution Control & Monitoring with Laboratory Facility.

TEST REPORT FOR AMBIENT AIR QUALITY MONITORING

REPORT NO: CPL/R/AAQ/MAR-22/37N

REPORT ISSUE DATE: 26.03.2022

SAMPLE DRAWN BY CLEENVIRON PRIVATE LIMITED

Name of the Customer:

M/s DALMIA CEMENT (BHARAT) LIMITED

Address of the Customer:

At/Po: RAJGANGPUR, SUNDARGARH - 770017, ODISHA

Sampling Method

IS: 5182 (Part - 2), (Part - 6) & (Part - 11), EN 12341

Environmental Conditions	Durin	Monitoring Min. Temp.: 17.3°C Max. Temp.: 35.1°C Min. RH: 25% Max. RH: 88%				
Sample ID No	1:1	CPL/AAQ/MAR-22/175				
Location of Sampling	1:1	Near Loco Gate (Line – 1)				
Date of Sampling		09.03.2022 - 10.03.2022				
_ampling Period	1:1	1730 – 1610 Hrs				
Time of Sampling		22.40 Hrs				
Sample Received on	1	10.03.2022				
Date of Test	1	10.03.2022 - 11.03.2022				

SI No	Parameters	Results Obtained	Unit	Method of Analysis	National Ambient Air Quality Standards, 2009 for Industrial, Residential, Rural & Other Area
_1	Lead (Pb)	< 0.4	µg/m³	IS: 5182 (PART - 22) 2004, RA 2019	1 (24 Hours)
2	Arsenic (As)	< 0.2	ng/m³	CPL/SOP/01/As, Issue No: 02, dtd.: 23.10.2017	6 (Annual)
3	Nickel (Ni)	< 12	ng/m³	IS: 5182 (PART - 26) 2020	20 (Annual)
4	Carbon Monoxide (CO)	< 0.1	mg/m ³	Electro-chemical Sensor Based Digital Monitor	4 (1 Hour)
5	Benzene (C ₆ H ₆)	< 0.5	µg/m³	IS: 5182 (PART – 11) 2006, RA 2017	5 (Annual)
6	Benzo(a)pyrene Particulate Phase only	< 0.1	ng/m³	IS: 5182 (PART – 12) 2004, RA 2014	1 (Annual)

Authorized Signatory Subhanga Praharaj Managing Director/QM

""END OF TEST REPORT""

Page 1 of 1

This report refers to the values obtained at the time of testing and results related to the item tested. This report may not be reproduced in part or full without

Registered Office:

Consultant and Engineers in Environmental Pollution Control & Monitoring with NABL Accredited Laboratory.



TEST REPORT FOR AMBIENT AIR QUALITY MONITORING

FORMAT NO: CPL/FM/57

ULR - TC681622000000664F REPORT NO: CPL/R/AAQ/MAR-22/33

REPORT ISSUE DATE: 26.03.2022

SAMPLE DRAWN BY CLEENVIRON PRIVATE LIMITED

Name of the Customer:

M/s DALMIA CEMENT (BHARAT) LIMITED

Address of the Customer:

At/Po: RAJGANGPUR, SUNDARGARH - 770017, ODISHA

Sampling Method :

IS: 5182 (Part - 2), (Part - 6) & (Part - 11), EN12341

Environmental Conditions	During	Monitoring : Min. Temp.:17.3°C Max. Temp.: 35.1°C Min. RH: 25% Max. RH: 88°				
Sample ID No	I:I	CPL/AAQ/MAR-22/125				
Location of Sampling		Near Workshop Building (Line – 2)				
Date of Sampling		08.03.2022 - 09.03.2022				
mpling Period		1510 – 1510 Hrs				
Time of Sampling	:	24.00 Hrs				
Sample Received on	:	09.03.2022				
Date of Test	:	09.03.2022 - 10.03.2022				

SI No	Parameters	Results Obtained	Unit	Method of Analysis	National Ambient Air Quality Standards, 2009 for Industrial, Residential, Rural & Other Area
1	PM 2.5	18	µg/m³	IS: 5182 (PART - 24) 2019	60 (24 Hours)
2	PM 10	47	µg/m³	IS : 5182 (PART – 23) 2006, RA 2017	100 (24 Hours)
3	Sulphur Dioxide (SO ₂)	05	µg/m³	IS: 5182 (PART – 2) 2001, RA 2017	80 (24 Hours)
4	Nitrogen Dioxide (NO ₂)	15	µg/m³	IS: 5182 (PART – 6) 2006, RA 2017	80 (24 Hours)
5	Ammonia (NH ₃)	60	µg/m³	IS: 5182 (PART – 25) 2018	400 (24 Hours)
6	Ozone (O ₃)	< 20	µg/m³	IS - 5182 (PART - 9) 1974, RA 2019	180 (1 Hour)

P. Saseni Test Done By

Verified By

ROURKELA

Authorized Signatory
Subhanga Praharaj
Managing Director/QM

*****END OF TEST REPORT*****

Page 1 of 1

This report refers to the values obtained at the time of testing and results related to the item tested. This report may not be reproduced in part or full without written permission of the Company.

Registered Office

Consultant and Engineers in Environmental Pollution Control & Monitoring with Laboratory Facility.

TEST REPORT FOR AMBIENT AIR QUALITY MONITORING

REPORT NO: CPL/R/AAQ/MAR-22/33N

REPORT ISSUE DATE: 26.03.2022

SAMPLE DRAWN BY CLEENVIRON PRIVATE LIMITED

Name of the Customer:

M/s DALMIA CEMENT (BHARAT) LIMITED

Address of the Customer: Sampling Method

At/Po: RAJGANGPUR, SUNDARGARH - 770017, ODISHA

IS: 5182 (Part - 2), (Part - 6) & (Part - 11), EN12341

Environmental Conditions	Duri	Monitoring : Min. Tem	p.: 17.3°C	Max. Temp.: 35.1°C	Min. RH: 25%	Max. RH: 88%		
Sample ID No	T : T		CPI	/AAQ/MAR-22/125				
Location of Sampling	1:1	Near Workshop Building (Line – 2)						
Date of Sampling		08.03.2022 – 09.03.2022						
impling Period	1	**************************************		1510– 1510 Hrs				
Time of Sampling		See House Transcon		24.00 Hrs				
Sample Received on	1	09.03.2022 09.03.2022 - 10.03.2022						
Date of Test								

SI No	Parameters	Results Obtained	Unit	Method of Analysis	National Ambient Air Quality Standards, 2009 for Industrial, Residential, Rural & Other Area
1	Lead (Pb)	< 0.4	µg/m³	IS: 5182 (PART - 22) 2004, RA 2019	
2	Arsenic (As)	< 0.2	ng/m ³	CPL/SOP/01/As, Issue No: 02, dtd.: 23.10.2017	1 (24 Hours)
3	Nickel (Ni)	< 12	ng/m³	IS : 5182 (PART – 26) 2020	6 (Annual)
4	Carbon Monoxide (CO)	< 0.1	mg/m ³	Electro-chemical Sensor Based Digital Monitor	20 (Annual)
5	Benzene (C ₆ H ₆)	< 0.5	µg/m³	IS : 5182 (PART – 11) 2006, RA 2017	4 (1 Hour)
6	Benzo(a)pyrene Particulate	< 0.1	ng/m ³	IS : 5182 (PART – 12) 2004, RA 2014	5 (Annual)
	Phase only		ng/m	10.0102 (1 ART = 12) 2004, RA 2014	1 (Annual)

Test Done By

Subhanga Praharaj Managing Director/QM

"""END OF TEST REPORT""

Page 1 of 1

This report refers to the values obtained at the time of testing and results related to the item tested. This report may not be reproduced in part or full without

Registered Office:

Consultant and Engineers in Environmental Pollution Control & Monitoring with NABL Accredited Laboratory.



TEST REPORT FOR AMBIENT AIR QUALITY MONITORING

ULR - TC681622000000670F REPORT NO: CPL/R/AAQ/MAR-22/39

REPORT ISSUE DATE: 26,03,2022

SAMPLE DRAWN BY CLEENVIRON PRIVATE LIMITED

Name of the Customer:

M/s DALMIA CEMENT (BHARAT) LIMITED

Address of the Customer: Sampling Method

At/Po: RAJGANGPUR, SUNDARGARH - 770017, ODISHA

IS: 5182 (Part - 2), (Part - 6) & (Part - 11), EN 12341

Environmental Conditions	Durin	g Monitoring : M	in. Temp.: 17.3°C	Max. Temp.: 35.1°C	Min. RH: 25%	Max. RH: 88%			
Sample ID No	:		CPI	L/AAQ/MAR-22/176					
Location of Sampling	:	***************************************		lear Atithi Niwas					
Date of Sampling	:	09.03.2022 - 10.03.2022							
campling Period	1			1707 – 1647 Hrs					
Time of Sampling	1	***************************************		23.40 Hrs		- Hillian			
Sample Received on	2			10.03.2022					
Date of Test	1	10.03.2022 – 11.03.2022							

SI No	Parameters	Results Obtained	Unit	Method of Analysis	National Ambient Air Quality Standards, 2009 for Industrial, Residential, Rural & Other Area
1	PM 2.5	29	µg/m³	IS: 5182 (PART - 24) 2019	60 (24 Hours)
2	PM 10	78	µg/m³	IS : 5182 (PART – 23) 2006, RA 2017	100 (24 Hours)
3	Sulphur Dioxide (SO ₂)	05	µg/m³	IS: 5182 (PART – 2) 2001, RA 2017	80 (24 Hours)
4	Nitrogen Dioxide (NO ₂)	11	µg/m³	IS: 5182 (PART – 6) 2006, RA 2017	80 (24 Hours)
5	Ammonia (NH ₃)	61	µg/m³	IS: 5182 (PART – 25) 2018	400 (24 Hours)
6	Ozone (O ₃)	< 20	µg/m³	IS - 5182 (PART - 9) 1974, RA 2019	180 (1 Hour)

Test Done By

Authorized Signator Subhanga Praharaj Managing Director/QM

"""END OF TEST REPORT""

Page 1 of 1

This report refers to the values obtained at the time of testing and results related to the item tested. This report may not be reproduced in part or full without

Registered Office

Consultant and Engineers in Environmental Pollution Control & Monitoring with Laboratory Facility.

TEST REPORT FOR AMBIENT AIR QUALITY MONITORING

FORMAT NO: CPLIFMIST

REPORT NO: CPL/R/AAQ/MAR-22/39N

REPORT ISSUE DATE: 26.03.2022

SAMPLE DRAWN BY CLEENVIRON PRIVATE LIMITED

Name of the Customer:

M/s DALMIA CEMENT (BHARAT) LIMITED

Address of the Customer:

At/Po: RAJGANGPUR, SUNDARGARH - 770017, ODISHA

Sampling Method :

IS: 5182 (Part - 2), (Part - 6) & (Part - 11), EN 12341

Environmental Conditions	Durin	g Monitoring	Min	. Temp.: 1	17.3°C	Max. T	emp.: 35.1°	C Mir	ı. RH: 25%	Max. RH: 88%
Sample ID No	:			nao	CPL	/AAQ/M	AR-22/176		#	
Location of Sampling	:		Near Atithi Niwas							
Pate of Sampling	:						10.03.2022			
Jampling Period						1707 – 16	The second secon		-	
Time of Sampling	:					23.40				
Sample Received on	:	10.03.2022								
Date of Test		10.03.2022 - 11.03.2022								

SI No	Parameters	Results Obtained	Unit	Method of Analysis	National Ambient Air Quality Standards, 2009 for Industrial, Residential, Rural & Other Area
1	Lead (Pb)	< 0.4	µg/m³	IS: 5182 (PART - 22) 2004, RA 2019	1 (24 Hours)
2	Arsenic (As)	< 0.2	ng/m³	CPL/SOP/01/As, Issue No: 02, dtd.: 23.10.2017	6 (Annual)
3	Nickel (Ni)	< 12	ng/m³	IS: 5182 (PART – 26) 2020	20 (Annual)
4	Carbon Monoxide (CO)	< 0.1	mg/m ³	Electro-chemical Sensor Based Digital Monitor	4 (1 Hour)
5	Benzene (C ₆ H ₆)	< 0.5	µg/m³	IS: 5182 (PART – 11) 2006, RA 2017	5 (Annual)
6	Benzo(a)pyrene Particulate Phase only	< 0.1	ng/m³	IS: 5182 (PART – 12) 2004, RA 2014	1 (Annual)

P. Salent Test Done By

dend po

Apthorized Signatory Subhanga Praharaj

Managing Director/QM

*****END OF TEST REPORT****

Page 1 of 1

This report refers to the values obtained at the time of testing and results related to the item tested. This report may not be reproduced in part or full without written permission of the Company.

Registered Office:





TEST REPORT FOR STACK EMISSION MONITORING

ULR - TC681621000002533F REPORT NO: CPL/R/SE/DEC-21/67 FORMAT NO: CPL/FM/58

REPORT ISSUE DATE: 30.12.2021

SAMPLE DRAWN BY CLEENVIRON PRIVATE LIMITED

Name of the Customer

Address of the Customer

Sample ID No

Name of Stack Monitored Stack Connected To Shape of Stack

Shape of Stack Date of Sampling Time of Sampling

A nod of Sampling

Sample Received on Date of Test

DALMIA CEMENT (BHARAT) LIMITED

RGP Cement Factory, Raigangpur – 770017, Dist: Sundargarh, Odisha

CPL/SE/DEC-21/54 KILN & VRM LINE – 1

KILN VRM

Circular 20.12.2021 10:49 Hrs

10: 49 Hrs 1S 11255 (Part – 1), (Part – 2): 1985, RA 2014 & (Part – 7): 2005, RA 2017

20.12.2021 21.12.2021

Ambient Temperature in ∘C

Stack Temperature in °C Average Stack Gas Velocity in m/sec

Iso-kinetic Flow Rate in LPM
Duration of Sampling in minute

25

167

13.81 39

25

Particulate Matter Concentration Sulphur Dioxide as SO₂

Nitrogen Dioxide as NO₂

Results Obtained

: 06 mg/Nm³ : 10.82 mg/Nm³

386.1 mg/Nm³

Permissible Limits

30 mg/Nm³ 100 mg/Nm³ 800 mg/Nm³

Test Done By

Verified By

Authorized Signatory Subhanga Praharaj Managing Director/QM

****END OF TEST REPORT****

Page 1 of 1

This report refers to the values obtained at the time of testing and results related to the item tested. This report may not be reproduced in part or full without written permission of the Company.

Danietared Office





TEST REPORT FOR STACK EMISSION MONITORING

ULR - TC681621000002532F

REPORT NO: CPL/R/SE/DEC-21/66

REPORT ISSUE DATE: 30.12.2021

SAMPLE DRAWN BY CLEENVIRON PRIVATE LIMITED

Name of the Customer

DALMIA CEMENT (BHARAT) LIMITED RGP Cement Factory, Rajgangpur - 770017, Dist: Sundargarh, Odisha

Address of the Customer

CPL/SE/DEC-21/53

Sample ID No Name of Stack Monitored

Coal Mill B/F, Line - 1 Coal Mill Bag Filter

Shape of Stack Date of Sampling

Stack Connected To

Circular 20.12.2021 11:40 Hrs

Time of Sampling Myhod of Sampling

IS 11255 (Part - 1): 1985, RA 2014

Sample Received on

20.12.2021

Date of Test

21.12.2021

Ambient Temperature in °C

27

Stack Temperature in °C

66

Average Stack Gas Velocity in m/sec

6.41 24

Iso-kinetic Flow Rate in LPM Duration of Sampling in minute

41

Particulate Matter Concentration

Results Obtained

: 06 mg/Nm³

Permissible Limits

30 mg/Nm³

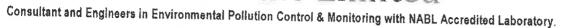
Authorized Signator Subhanga Praharaj Managing Director/QM

*****END OF TEST REPORT*****

Page 1 of 1

This report refers to the values obtained at the time of testing and results related to the item tested. This report may not be reproduced in part or full without written permission of the Company.

Danistanna Attina





TEST REPORT FOR STACK EMISSION MONITORING

ULR - TC681621000002531F REPORT NO: CPL/R/SE/DEC-21/65 FORMAT NO: CPL/FM/58

REPORT ISSUE DATE: 30,12,2021

SAMPLE DRAWN BY CLEENVIRON PRIVATE LIMITED

Name of the Customer

DALMIA CEMENT (BHARAT) LIMITED

Address of the Customer

RGP Cement Factory, Raigangpur - 770017, Dist: Sundargarh, Odisha

Sample ID No

CPL/SE/DEC-21/52

Name of Stack Monitored Stack Connected To

Cooler ESP, Line – 1

Shape of Stack

Cooler, Line – 1

Date of Sampling

Circular

Time of Sampling

20.12.2021 12:48 Hrs

Mod of Sampling

IS 11255 (Part - 1): 1985, RA 2014

Sample Received on

20.12.2021

Date of Test

21.12.2021

Ambient Temperature in °C

27

Stack Temperature in °C

260

Average Stack Gas Velocity in m/sec

7.11

Iso-kinetic Flow Rate in LPM Duration of Sampling in minute

17 58

Particulate Matter Concentration

Results Obtained

: 09 mg/Nm³

Permissible Limits

30 mg/Nm³

Test Done By

nadata and

rerified By

Authorized Signatory Subhanga Praharaj

Subhanga Pranaraj Managing Director/QM

****END OF TEST REPORT****

Page 1 of 1

This report refers to the values obtained at the time of testing and results related to the item tested. This report may not be reproduced in part or full without written permission of the Company.





TEST REPORT FOR STACK EMISSION MONITORING

ULR - TC681621000002534F REPORT NO: CPL/R/SE/DEC-21/68

REPORT ISSUE DATE: 30.12.2021

SAMPLE DRAWN BY CLEENVIRON PRIVATE LIMITED

Name of the Customer

DALMIA CEMENT (BHARAT) LIMITED

Address of the Customer

RGP Cement Factory, Rajgangpur - 770017, Dist: Sundargarh, Odisha

Sample ID No

CPL/SE/DEC-21/51

Name of Stack Monitored Stack Connected To

CVRM - 1, Line - 1 CVRM - 1 Bag filter

Shape of Stack Date of Sampling

Circular 20.12.2021

Time of Sampling

15:10 Hrs

Mond of Sampling

IS 11255 (Part - 1): 1985, RA 2014

Sample Received on Date of Test

20.12.2021 21.12.2021

Ambient Temperature in °C

27

Stack Temperature in °C

92

Average Stack Gas Velocity in m/sec

5.80

Iso-kinetic Flow Rate in LPM

20

Duration of Sampling in minute

50

Particulate Matter Concentration

Results Obtained

: 09 mg/Nm³

Permissible Limits

30 mg/Nm³

Test Done By

Beatstone Love

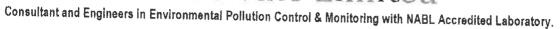
Authorized Signatory

Subhanga Praharaj Managing Director/QM

****END OF TEST REPORT*****

Page 1 of 1

This report refers to the values obtained at the time of testing and results related to the item tested. This report may not be reproduced in part or full without written permission of the Company.





TEST REPORT FOR STACK EMISSION MONITORING

ULR - TC681621000002535F REPORT NO: CPL/R/SE/DEC-21/69 FORMAT NO: CPL/FM/58

REPORT ISSUE DATE: 30.12.2021

SAMPLE DRAWN BY CLEENVIRON PRIVATE LIMITED

Name of the Customer

DALMIA CEMENT (BHARAT) LIMITED

Address of the Customer

RGP Cement Factory, Rajgangpur - 770017, Dist: Sundargarh, Odisha

Sample ID No

CPL/SE/DEC-21/50

Name of Stack Monitored Stack Connected To CVRM - 2, Line - 1 CVRM - 2 Bag filter

Shape of Stack Date of Sampling

Circular 20.12.2021

Time of Sampling

16:18 Hrs

Author of Sampling

IS 11255 (Part - 1): 1985, RA 2014

Sample Received on Date of Test

20.12.2021 21.12.2021

Ambient Temperature in °C

27

Stack Temperature in °C

96

Average Stack Gas Velocity in m/sec

5.67

Iso-kinetic Flow Rate in LPM

19

Duration of Sampling in minute

19 52

Particulate Matter Concentration

Results Obtained

16 mg/Nm³

Permissible Limits

30 mg/Nm³

P. Saleni Test Done By

Verified By

Authorized Signatory Subhanga Praharai

Managing Director/QM

""END OF TEST REPORT""

Page 1 of 1

This report refers to the values obtained at the time of testing and results related to the item tested. This report may not be reproduced in part or full without written permission of the Company.

Danfatarad Attian.

Consultant and Engineers in Environmental Pollution Control & Monitoring with NABL Accredited Laboratory.



TEST REPORT FOR STACK EMISSION MONITORING

ULR - TC681621000002536F REPORT NO: CPL/R/SE/DEC-21/70

REPORT ISSUE DATE: 30.12.2021

SAMPLE DRAWN BY CLEENVIRON PRIVATE LIMITED

Name of the Customer

Address of the Customer

Sample ID No

Name of Stack Monitored Stack Connected To

Shape of Stack Date of Sampling Time of Sampling

Muchod of Sampling Sample Received on

Date of Test

DALMIA CEMENT (BHARAT) LIMITED

RGP Cement Factory, Rajgangpur - 770017, Dist: Sundargarh, Odisha

CPL/SE/DEC-21/55 CVRM - 3, Line - 1

CVRM - 3 Bag filter Circular

20.12.2021 17:38 Hrs

IS 11255 (Part - 1): 1985, RA 2014

20.12.2021 21.12.2021

Ambient Temperature in °C Stack Temperature in °C

Average Stack Gas Velocity in m/sec

Duration of Sampling in minute

Iso-kinetic Flow Rate in LPM

25

98

6.69 23

43

Particulate Matter Concentration

Results Obtained

05 mg/Nm³

Permissible Limits

30 mg/Nm³

Test Done By

Authorized Signatory Subhanga Praharaj

Managing Director/QM

*****END OF TEST REPORT*****

Page 1 of 1

This report refers to the values obtained at the time of testing and results related to the Item tested. This report may not be reproduced in part or full without written permission of the Company.

Registered Office





TEST REPORT FOR STACK EMISSION MONITORING

FORMAT NO: CPL/FM/58

ULR - TC681621000002540F REPORT NO: CPL/R/SE/DEC-21/74

REPORT ISSUE DATE: 30.12.2021

SAMPLE DRAWN BY CLEENVIRON PRIVATE LIMITED

Name of the Customer

DALMIA CEMENT (BHARAT) LIMITED

Address of the Customer

RGP Cement Factory, Rajgangpur - 770017, Dist: Sundargarh, Odisha

Sample ID No

CPL/SE/DEC-21/60

Name of Stack Monitored Stack Connected To KILN & VRM RABH, LINE - 2

Shape of Stack

KILN VRM

Date of Sampling

Circular 21.12.2021

P e of Sampling

14:35 Hrs

Method of Sampling

IS 11255 (Part - 1), (Part - 2): 1985, RA 2014 & (Part - 7): 2005, RA 2017

Sample Received on

21.12.2021

Date of Test

22.12.2021

Ambient Temperature in °C

28

Stack Temperature in °C

86

Average Stack Gas Velocity in m/sec

6.52

Iso-kinetic Flow Rate in LPM

23

Duration of Sampling in minute

43

Particulate Matter Concentration

Sulphur Dioxide as SO₂

Nitrogen Dioxide as NO₂

Results Obtained

Permissible Limits

: 05 mg/Nm³

37.19 mg/Nm³

30 mg/Nm³ 100 mg/Nm³

: 418.2 mg/Nm³

800 mg/Nm³

P. Caseni Test Done By Verified By

Authorized Signatory Subhanga Praharaj Managing Director/QM

*****END OF TEST REPORT*****

Page 1 of 1

This report refers to the values obtained at the time of testing and results related to the item tested. This report may not be reproduced in part or full without written permission of the Company.

Dawledsond Miles.





TEST REPORT FOR STACK EMISSION MONITORING

ULR - TC681621000002538F REPORT NO: CPL/R/SE/DEC-21/72

REPORT ISSUE DATE: 30.12.2021

SAMPLE DRAWN BY CLEENVIRON PRIVATE LIMITED

Name of the Customer

DALMIA CEMENT (BHARAT) LIMITED

Address of the Customer

RGP Cement Factory, Rajgangpur - 770017, Dist: Sundargarh, Odisha

Sample ID No

CPL/SE/DEC-21/58

Name of Stack Monitored Stack Connected To

Coal Mill B/F, Line - 2 Coal Mill Bag Filter

Shape of Stack

Circular

Date of Sampling

21.12.2021

Time of Sampling

15:45 Hrs

Muchod of Sampling

IS 11255 (Part - 1): 1985, RA 2014

Sample Received on

21.12.2021

Date of Test

Mandadana A Mee

22.12.2021

Ambient Temperature in °C

26

Stack Temperature in °C

74

Average Stack Gas Velocity in m/sec

6.85

Iso-kinetic Flow Rate in LPM

25

Duration of Sampling in minute

40

Particulate Matter Concentration

Results Obtained

: 05 mg/Nm³

Permissible Limits

30 ma/Nm³

Authorized Signatory Subhanga Praharaj Managing Director/QM

****END OF TEST REPORT****

Page 1 of 1

This report refers to the values obtained at the time of testing and results related to the item tested. This report may not be reproduced in part or full without written permission of the Company.





TEST REPORT FOR STACK EMISSION MONITORING

ULR - TC681621000002537F REPORT NO: CPL/R/SE/DEC-21/71

REPORT ISSUE DATE: 30,12,2021

SAMPLE DRAWN BY CLEENVIRON PRIVATE LIMITED

Name of the Customer

DALMIA CEMENT (BHARAT) LIMITED

Address of the Customer

RGP Cement Factory, Rajgangpur - 770017, Dist: Sundargarh, Odisha

Sample ID No.

CPL/SE/DEC-21/59

Name of Stack Monitored Stack Connected To

Cooler ESP, Line - 2 Cooler, Line - 2

Shape of Stack

Circular

Date of Sampling Time of Sampling 21.12.2021 16:50 Hrs

Muchod of Sampling

IS 11255 (Part - 1): 1985, RA 2014

Sample Received on Date of Test

21.12.2021 22,12,2021

Ambient Temperature in °C

27

Stack Temperature in °C

83

Average Stack Gas Velocity in m/sec

5.00 18

Iso-kinetic Flow Rate in LPM Duration of Sampling in minute

55

Particulate Matter Concentration

Results Obtained

08 mg/Nm³

Permissible Limits

30 ma/Nm³

Authorized Signatory Subhanga Praharaj Managing Director/QM

"""END OF TEST REPORT"

Page 1 of 1

This report refers to the values obtained at the time of testing and results related to the item tested. This report may not be reproduced in part or full without written permission of the Company.

Danistana Office





TEST REPORT FOR AMBIENT AIR QUALITY MONITORING

ULR - TC681621000002524F REPORT NO: CPL/R/AAQ/DEC-21/33 FORMAT NO: CPL/FM/57

REPORT ISSUE DATE: 30.12.2021

SAMPLE DRAWN BY CLEENVIRON PRIVATE LIMITED

Name of the Customer:

M/s DALMIA CEMENT (BHARAT) LIMITED

Address of the Customer: Sampling Method :

At/Po: RAJGANGPUR, SUNDARGARH - 770017, ODISHA

IS: 5182 (Part - 2), (Part - 6) & (Part - 11), EN 12341

Environmental Conditions	nvironmental Conditions During Monitoring		Max. Temp.: 28.5°C	Min. RH: 31%	Max. RH: 99%		
Sample ID No	4 •	CPI	L/AAQ/DEC-21/241				
Location of Sampling : Near Stores Building (Line – 1)							
Date of Sampling	120		2.2021 - 21.12.2021	-			
campling Period	1		1050 - 1045 Hrs				
Time of Sampling			23.55 Hrs				
Sample Received on	. 1		21.12.2021				
Date of Test 21.12.2021 – 22.12.2021							

SI No	Parameters	Results Obtained	Unit	Method of Analysis	National Ambient Air Quality Standards, 2009 for Industrial, Residential, Rural & Other Area
1	PM 2.5	27	µg/m³	IS: 5182 (PART - 24) 2019	60 (24 Hours)
2	PM 10	69	µg/m³	IS: 5182 (PART - 23) 2006, RA 2017	100 (24 Hours)
3	Sulphur Dioxide (SO ₂)	05	µg/m³	IS: 5182 (PART - 2) 2001, RA 2017	80 (24 Hours)
4	Nitrogen Dioxide (NO ₂)	13	µg/m³	IS: 5182 (PART - 6) 2006, RA 2017	80 (24 Hours)
5	Ammonia (NH ₃)	< 20	µg/m³	IS: 5182 (PART - 25) 2018	400 (24 Hours)
6	Ozone (O ₃)	< 20	µg/m³	IS - 5182 (PART - 9) 1974, RA 2019	180 (1 Hour)

P. Saluri Test Done By

Verified By

ROURKELA

Authorized Signatory Subhanga Praharaj Managing Director/QM

****END OF TEST REPORT*****

Page 1 of 1

This report refers to the values obtained at the time of testing and results related to the item tested. This report may not be reproduced in part or full without written permission of the Company.

Renistered Office

Consultant and Engineers in Environmental Pollution Control & Monitoring with Laboratory Facility.

TEST REPORT FOR AMBIENT AIR QUALITY MONITORING

REPORT NO: CPL/R/AAQ/DEC-21/33N

REPORT ISSUE DATE: 30.12.2021

SAMPLE DRAWN BY CLEENVIRON PRIVATE LIMITED

Name of the Customer:

M/s DALMIA CEMENT (BHARAT) LIMITED

Address of the Customer:

At/Po: RAJGANGPUR, SUNDARGARH - 770017, ODISHA

Sampling Method

IS: 5182 (Part - 2), (Part - 6) & (Part - 11), EN 12341

Environmental Conditions During Monitoring		ng Monitoring	1	Min. Temp.: 8.1°C	Max. Temp.: 28.5°C	Min. RH: 31%	Max. RH: 99%				
Sample ID No :				CPL/AAQ/DEC-21/241							
Location of Sampling	:	Near Stores Building (Line – 1)									
Date of Sampling			20.12.2021 - 21.12.2021								
Campling Period	:				1050 - 1045 Hrs						
Time of Sampling	:	110000		***	23.55 Hrs						
Sample Received on	:		21.12.2021								
Date of Test	4	21.12.2021 - 22.12.2021									

SI No	Parameters	Results Obtained	Unit	Method of Analysis	National Ambient Air Quality Standards, 2009 for Industrial, Residential, Rural & Other Area
1	Lead (Pb)	< 0.4	µg/m³	IS: 5182 (PART – 22) 2004, RA 2019	1 (24 Hours)
2	Arsenic (As)	< 0.2	ng/m³	CPL/SOP/01/As, Issue No: 02, dtd.: 23.10.2017	6 (Annual)
3	Nickel (Ni)	< 12	ng/m³	IS: 5182 (PART - 26) 2020	20 (Annual)
4	Carbon Monoxide (CO)	< 0.1	mg/m³	Electro-chemical Sensor Based Digital Monitor	4 (1 Hour)
5	Benzene (C ₆ H ₆)	< 0.5	µg/m³	IS: 5182 (PART – 11) 2006, RA 2017	5 (Annual)
6	Benzo(a)pyrene Particulate Phase only	< 0.1	ng/m³	IS : 5182 (PART – 12) 2004, RA 2014	1 (Annual)

p. Saseni **Test Done By**

Authorized Signatory Subhanga Praharaj Managing Director/QM

"""END OF TEST REPORT""

Page 1 of 1

This report refers to the values obtained at the time of testing and results related to the item tested. This report may not be reproduced in part or full without written permission of the Company.

Danietarna Office





TEST REPORT FOR AMBIENT AIR QUALITY MONITORING

FORMAT NO: CPLIFE

ULR - TC681621000002528F REPORT NO: CPL/R/AAQ/DEC-21/37

REPORT ISSUE DATE: 30.12.2021

SAMPLE DRAWN BY CLEENVIRON PRIVATE LIMITED

Name of the Customer:

M/s DALMIA CEMENT (BHARAT) LIMITED

Address of the Customer:

At/Po: RAJGANGPUR, SUNDARGARH - 770017, ODISHA

Sampling Method :

IS: 5182 (Part - 2), (Part - 6) & (Part - 11), EN 12341

Environmental Condi	tions During Monitoring	Min. Temp.: 8.1°C	Max. Temp.: 28.5°C	Min. RH: 31%	Max. RH: 99%
Sample ID No	1:1	CPL	/AAQ/DEC-21/291		

Sample ID No	1	CPL/AAQ/DEC-21/291
Location of Sampling		Near Canteen Building (Line - 1)
nte of Sampling		23.12.2021 - 24.12.2021
Sampling Period		0920 – 0912 Hrs
Time of Sampling		23.52 Hrs
Sample Received on		24.12.2021
Date of Test		24.12.2021 – 25.12.2021

SI No	Parameters	Results Obtained	Unit	Method of Analysis	National Ambient Air Quality Standards, 2009 for Industrial, Residential, Rural & Other Area
1	PM 2.5	24	µg/m³	IS: 5182 (PART - 24) 2019	60 (24 Hours)
2	PM 10	63	µg/m³	IS: 5182 (PART - 23) 2006, RA 2017	100 (24 Hours)
3	Sulphur Dioxide (SO ₂)	05	µg/m³	IS: 5182 (PART - 2) 2001, RA 2017	80 (24 Hours)
4	Nitrogen Dioxide (NO ₂)	21	µg/m³	IS: 5182 (PART - 6) 2006, RA 2017	80 (24 Hours)
5	Ammonia (NH ₃)	29	µg/m³	IS: 5182 (PART - 25) 2018	400 (24 Hours)
6	Ozone (O ₃)	< 20	µg/m³	IS - 5182 (PART - 9) 1974, RA 2019	180 (1 Hour)

P. Sascut Test Done By Verified By

ROURKELA

Authorized Signatory Subhanga Praharaj Managing Director/QM

""'END OF TEST REPORT"""

Page 1 of 1

This report refers to the values obtained at the time of testing and results related to the item tested. This report may not be reproduced in part or full without written permission of the Company.

Danietarad Offica.

Consultant and Engineers in Environmental Pollution Control & Monitoring with Laboratory Facility.

TEST REPORT FOR AMBIENT AIR QUALITY MONITORING

FORMAT NO: CPL/FM/57

REPORT NO: CPL/R/AAQ/DEC-21/36N

REPORT ISSUE DATE: 30.12.2021

SAMPLE DRAWN BY CLEENVIRON PRIVATE LIMITED

Name of the Customer:

M/s DALMIA CEMENT (BHARAT) LIMITED

Address of the Customer:

At/Po: RAJGANGPUR, SUNDARGARH - 770017, ODISHA

Sampling Method :

IS: 5182 (Part - 2), (Part - 6) & (Part - 11), EN 12341

Environmental Conditions During Monitoring : Min. Temp.: 8.1°C | Max. Temp.: 28.5°C | Min. RH: 31% | Max. RH: 99%

Sample ID No		CPL/AAQ/DEC-21/291	
Location of Sampling	:	Near Canteen Building (Line - 1)	
Pete of Sampling		23.12.2021 - 24.12.2021	
oampling Period		0920 – 0912 Hrs	
Time of Sampling		23.52 Hrs	
Sample Received on	:	24.12.2021	
Date of Test		24.12.2021 - 25.12.2021	

SI No	Parameters	Results Obtained	Unit	Method of Analysis	National Ambient Air Quality Slandards, 2009 for Industrial, Residential, Rural & Other Area
1	Lead (Pb)	< 0.4	µg/m³	IS: 5182 (PART - 22) 2004, RA 2019	1 (24 Hours)
2	Arsenic (As)	< 0.2	ng/m³	CPL/SOP/01/As, Issue No: 02, dtd.: 23.10.2017	6 (Annual)
3	Nickel (Ni)	< 12	ng/m³	IS: 5182 (PART - 26) 2020	20 (Annual)
4	Carbon Monoxide (CO)	< 0.1	mg/m ³	Electro-chemical Sensor Based Digital Monitor	4 (1 Hour)
5	Benzene (C ₆ H ₆)	< 0.5	µg/m³	IS: 5182 (PART - 11) 2006, RA 2017	5 (Annual)
6	Benzo(a)pyrene Particulate Phase only	< 0.1	ng/m³	IS: 5182 (PART – 12) 2004, RA 2014	1 (Annual)

P. Sarent Test Done By

Verified By

Authorized Signatory Subhanga Praharaj Managing Director/QM

*****END OF TEST REPORT*****

Page 1 of 1

This report refers to the values obtained at the time of testing and results related to the item tested. This report may not be reproduced in part or full without written permission of the Company.

Danielavad Offica.





TEST REPORT FOR AMBIENT AIR QUALITY MONITORING

ULR - TC681621000002529F

FORMAT NO: CPLIFM/57

PORMATNO: GPL

REPORT ISSUE DATE: 30.12.2021

REPORT NO: CPL/R/AAQ/DEC-21/38

SAMPLE DRAWN BY CLEENVIRON PRIVATE LIMITED

Name of the Customer:

M/s DALMIA CEMENT (BHARAT) LIMITED

Address of the Customer:

At/Po: RAJGANGPUR, SUNDARGARH - 770017, ODISHA

Sampling Method :

IS: 5182 (Part - 2), (Part - 6) & (Part - 11), EN 12341

Environmental Conditions	Dur	ing Monitoring	2	Min. Temp.: 8.1°C	Max. Temp.: 28.59	CN	Ain. RH: 31%	Max	. RH: 99%
Sample ID No	:			СР	PL/AAQ/DEC-21/290				
Location of Sampling	:				Near Atithi Niwas		1010111		
ate of Sampling					12.2021 - 24.12.2021				
Sampling Period	1				0905 – 0857 Hrs				
Time of Sampling	:	-Warak I. II			23.52 Hrs			***************************************	
Sample Received on	1				24.12.2021				
Date of Test				24.1	12.2021 - 25.12.2021				

SI No	Parameters	Results Obtained	Unit	Method of Analysis	National Ambient Air Quality Stendards, 2009 for Industrial, Residential, Rural & Other Area
1	PM 2.5	20	µg/m³	IS: 5182 (PART - 24) 2019	60 (24 Hours)
2	PM 10	53	µg/m³	IS: 5182 (PART - 23) 2006, RA 2017	100 (24 Hours)
3	Sulphur Dioxide (SO₂)	05	µg/m³	IS: 5182 (PART - 2) 2001, RA 2017	80 (24 Hours)
4	Nitrogen Dioxide (NO ₂)	21	µg/m³	IS: 5182 (PART - 6) 2006, RA 2017	80 (24 Hours)
5	Ammonia (NH ₃)	< 20	µg/m³	IS: 5182 (PART - 25) 2018	400 (24 Hours)
6	Ozone (O ₃)	< 20	µg/m³	IS - 5182 (PART - 9) 1974, RA 2019	180 (1 Hour)

P. Sasent Test Done By Verified By

ROURKELA

Authorized Signatory
Subhanga Praharaj
Managing Director/QM

*****END OF TEST REPORT*****

Page 1 of 1

This report refers to the values obtained at the time of testing and results related to the item tested. This report may not be reproduced in part or full without written permission of the Company.

Registered Office

Consultant and Engineers in Environmental Pollution Control & Monitoring with Laboratory Facility.

TEST REPORT FOR AMBIENT AIR QUALITY MONITORING

FORMATINO: CPU/FM/57

REPORT NO: CPL/R/AAQ/DEC-21/37N

REPORT ISSUE DATE: 30.12.2021

SAMPLE DRAWN BY CLEENVIRON PRIVATE LIMITED

Name of the Customer:

M/s DALMIA CEMENT (BHARAT) LIMITED

Address of the Customer:

At/Po: RAJGANGPUR, SUNDARGARH - 770017, ODISHA

Sampling Method :

IS: 5182 (Part - 2), (Part - 6) & (Part - 11), EN 12341

Environmental Conditions During Monitoring : Min. Temp.: 8.1°C | Max. Temp.: 28.5°C | Min. RH: 31% | Max. RH: 99%

Sample ID No		CPL/AAQ/DEC-21/290	
Location of Sampling	:	Near Atithi Niwas	
ate of Sampling		23.12.2021 - 24.12.2021	
Sampling Period		0905 – 0857 Hrs	
Time of Sampling		23.52 Hrs	
Sample Received on		24.12.2021	
Date of Test		24.12.2021 – 25.12.2021	

SI No	Parameters	Results Obtained	Unit	Method of Analysis	National Ambient Air Quality Standards, 2009 for Industrial, Residential, Rural & Other Area
1	Lead (Pb)	< 0.4	µg/m³	IS: 5182 (PART – 22) 2004, RA 2019	1 (24 Hours)
2	Arsenic (As)	< 0.2	ng/m³	CPL/SOP/01/As, Issue No: 02, dtd.: 23.10.2017	6 (Annual)
3	Nickel (Ni)	< 12	ng/m³	IS: 5182 (PART – 26) 2020	20 (Annual)
4	Carbon Monoxide (CO)	< 0.1	mg/m ³	Electro-chemical Sensor Based Digital Monitor	4 (1 Hour)
5	Benzene (C ₆ H ₆)	< 0.5	µg/m³	IS: 5182 (PART - 11) 2006, RA 2017	5 (Annual)
6	Benzo(a)pyrene Particulate Phase only	< 0.1	ng/m³	IS : 5182 (PART – 12) 2004, RA 2014	1 (Annual)

P. Salent Test Done By Verified By

ROURKELA

Authorized Signatory
Subhanga Praharaj
Managing Director/QM

*****END OF TEST REPORT*****

Page 1 of 1

This report refers to the values obtained at the time of testing and results related to the item tested. This report may not be reproduced in part or full without written permission of the Company.

Ranistarad Offica





TEST REPORT FOR AMBIENT AIR QUALITY MONITORING

ULR - TC681621000002527F REPORT NO: CPL/R/AAQ/DEC-21/36

REPORT ISSUE DATE: 30.12.2021

SAMPLE DRAWN BY CLEENVIRON PRIVATE LIMITED

Name of the Customer :

M/s DALMIA CEMENT (BHARAT) LIMITED

Address of the Customer: Sampling Method

At/Po: RAJGANGPUR, SUNDARGARH - 770017, ODISHA

IS: 5182 (Part - 2), (Part - 6) & (Part - 11), EN 12341

Environmental Conditions During Monitoring Min. Temp.: 8.1°C | Max. Temp.: 28.5°C Min. RH: 31% | Max. RH: 99%

Sample ID No		CPL/AAQ/DEC-21/242	
Location of Sampling	:	Near Loco Gate (Line – 1)	
ate of Sampling		20.12.2021 - 21.12.2021	
Sampling Period		1030 – 1024 Hrs	
Time of Sampling	2	23.54 Hrs	
Sample Received on	4	22.12.2021	
Date of Test	:	22.12.2021 - 23.12.2021	

SI No	Parameters	Results Obtained	Unit	Method of Analysis	National Ambient Air Quality Standards, 2009 for Industrial, Residential, Rural & Other Area
1	PM 2.5	30	µg/m³	IS: 5182 (PART - 24) 2019	60 (24 Hours)
2	PM 10	78	µg/m³	IS: 5182 (PART - 23) 2006, RA 2017	100 (24 Hours)
3	Sulphur Dioxide (SO ₂)	05	µg/m³	IS: 5182 (PART - 2) 2001, RA 2017	80 (24 Hours)
4	Nitrogen Dioxide (NO ₂)	15	µg/m³	IS: 5182 (PART - 6) 2006, RA 2017	80 (24 Hours)
5	Ammonia (NH ₃)	25	µg/m³	IS: 5182 (PART - 25) 2018	400 (24 Hours)
6	Ozone (O ₃)	< 20	µg/m³	IS - 5182 (PART - 9) 1974, RA 2019	180 (1 Hour)

Test Done By

Authorized Signatory Subhanga Praharai Managing Director/QM

*****END OF TEST REPORT*****

Page 1 of 1

This report refers to the values obtained at the time of testing and results related to the item tested. This report may not be reproduced in part or full without written permission of the Company.

Danletared Office

Consultant and Engineers in Environmental Pollution Control & Monitoring with Laboratory Facility.

TEST REPORT FOR AMBIENT AIR QUALITY MONITORING

REPORT NO: CPL/R/AAQ/DEC-21/35N

REPORT ISSUE DATE: 30.12.2021

SAMPLE DRAWN BY CLEENVIRON PRIVATE LIMITED

Name of the Customer:

M/s DALMIA CEMENT (BHARAT) LIMITED

Address of the Customer:

At/Po: RAJGANGPUR, SUNDARGARH - 770017, ODISHA

Sampling Method

IS: 5182 (Part - 2), (Part - 6) & (Part - 11), EN 12341

Environmental Conditions	Dur	ing Monitoring	i Mi	in. Temp.: 8.1°C	Max. Temp.: 28.5°C	Min. RH: 31%	Max. RH: 999
Sample ID No	:			CI	PL/AAQ/DEC-21/242		
Location of Sampling	:	######################################			r Loco Gate (Line – 1)		
Ite of Sampling	1				12.2021 - 21.12.2021		
Sampling Period	:				1030 – 1024 Hrs		11.00
Time of Sampling	1				23.54 Hrs		
Sample Received on	1				22.12.2021		
Date of Test	•	*		22.	12.2021 – 23.12.2021		.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,

SI No	Parameters	Results Obtained	Unit	Method of Analysis	National Ambient Air Quality Standards, 2009 for industrial, Residential, Rural & Other Area
1	Lead (Pb)	< 0.4	µg/m³	IS: 5182 (PART - 22) 2004, RA 2019	1 (24 Hours)
2	Arsenic (As)	< 0.2	ng/m³	CPL/SOP/01/As, Issue No: 02, dtd.: 23.10.2017	6 (Annual)
3	Nickel (Ni)	< 12	ng/m³	IS: 5182 (PART – 26) 2020	20 (Annual)
4	Carbon Monoxide (CO)	< 0.1	mg/m ³	Electro-chemical Sensor Based Digital Monitor	4 (1 Hour)
5	Benzene (C ₆ H ₆)	< 0.5	µg/m³	IS: 5182 (PART – 11) 2006, RA 2017	5 (Annual)
6	Benzo(a)pyrene Particulate Phase only	< 0.1	ng/m³	IS : 5182 (PART – 12) 2004, RA 2014	1 (Annual)

Test Done By

Authorized Signatory Subhanga Praharaj

Managing Director/QM

*****END OF TEST REPORT*****

Page 1 of 1

This report refers to the values obtained at the time of testing and results related to the item tested. This report may not be reproduced in part or full without written permission of the Company.

Registered Office:

Consultant and Engineers in Environmental Pollution Control & Monitoring with NABL Accredited Laboratory.



TEST REPORT FOR AMBIENT AIR QUALITY MONITORING

ULR - TC681621000002523F

REPORT NO: CPL/R/AAQ/DEC-21/32

FORMAT NO: CPL/FM/57

REPORT ISSUE DATE: 30.12.2021

SAMPLE DRAWN BY CLEENVIRON PRIVATE LIMITED

Name of the Customer:

M/s DALMIA CEMENT (BHARAT) LIMITED

Address of the Customer:

At/Po: RAJGANGPUR, SUNDARGARH – 770017, ODISHA IS: 5182 (Part – 2) (Part – 6) & (Part – 11) FN12341

Sampling Method : IS: 5182 (Part – 2), (Part – 6) & (Part – 11), EN12341

Environmental Conditions During Monitoring			:	Min	. Temp.:8.1°C	Max. Temp.: 28.5°C	Min	. RH: 31%	Max	. RH: 99%
Sample ID No	:	4010) 			СР	L/AAQ/DEC-21/288				
Location of Sampling	:		Near Workshop Building (Line – 2)							
Date of Sampling	1					2.2021 - 22.12.2021	~			
_ampling Period						1332- 1040 Hrs				
Time of Sampling	:					20.28 Hrs				
Sample Received on	:					23.12.2021				
Date of Test	1		23.12.2021 - 24.12.2021							

Si No	Parameters	Results Obtained	Unit	Method of Analysis	National Ambient Air Quality Standards, 2009 for Industrial, Residential, Rural & Other Area	
1	PM 2.5	21	µg/m³	IS: 5182 (PART - 24) 2019	60 (24 Hours)	
2	PM 10	56	µg/m³	IS: 5182 (PART - 23) 2006, RA 2017	100 (24 Hours)	
3	Sulphur Dioxide (SO₂)	06	µg/m³	IS: 5182 (PART - 2) 2001, RA 2017	80 (24 Hours)	
4	Nitrogen Dioxide (NO ₂)	20	µg/m³	IS: 5182 (PART – 6) 2006, RA 2017	80 (24 Hours)	
5	Ammonia (NH ₃)	25	µg/m³	IS: 5182 (PART – 25) 2018	400 (24 Hours)	
6	Ozone (O ₃)	< 20	µg/m³	IS - 5182 (PART - 9) 1974, RA 2019	180 (1 Hour)	

P. Sasene Test Done By

Verified By

ROURKELA EN

Authorized Signatory
Subhanga Praharaj
Managing Director/QM

*****END OF TEST REPORT*****

Page 1 of 1

This report refers to the values obtained at the time of testing and results related to the item tested. This report may not be reproduced in part or full without written permission of the Company.

Ranistered Office

Consultant and Engineers in Environmental Pollution Control & Monitoring with Laboratory Facility.

TEST REPORT FOR AMBIENT AIR QUALITY MONITORING

REPORT NO: CPL/R/AAQ/DEC-21/32N

REPORT ISSUE DATE: 30.12.2021

SAMPLE DRAWN BY CLEENVIRON PRIVATE LIMITED

Name of the Customer:

M/s DALMIA CEMENT (BHARAT) LIMITED

Address of the Customer:

At/Po: RAJGANGPUR, SUNDARGARH - 770017, ODISHA

Sampling Method

IS: 5182 (Part - 2), (Part - 6) & (Part - 11), EN12341

Environmental Conditions	Durin	Monitoring : Min. Temp.: 8.1°C Max. Temp.: 28.5°C Min. RH: 31% Max. R	RH: 999					
Sample ID No		CPL/AAQ/DEC-21/288						
Location of Sampling		Near Workshop Building (Line – 2)						
Date of Sampling	10	21.12.2021 – 22.12.2021	Autor					
impling Period		1332– 1040 Hrs						
Time of Sampling	:	20.28 Hrs						
Sample Received on		23.12.2021						
Date of Test		23.12.2021						

SI No	Parameters	Results Obtained	Unit	Method of Analysis	National Ambient Air Quality Standards, 2009 for Industriat, Residential, Rural & Other Area	
1	Lead (Pb)	< 0.4	µg/m³	IS: 5182 (PART - 22) 2004, RA 2019	1 (24 Hours)	
2	Arsenic (As)	< 0.2	ng/m³	CPL/SOP/01/As, Issue No: 02, dtd.: 23.10.2017	6 (Annual)	
3	Nickel (Ni)	< 12	ng/m³	IS: 5182 (PART - 26) 2020	20 (Annual)	
4	Carbon Monoxide (CO)	< 0.1	mg/m ³	Electro-chemical Sensor Based Digital Monitor	4 (1 Hour)	
5	Benzene (C ₆ H ₆)	< 0.5	µg/m³	IS: 5182 (PART 11) 2006, RA 2017	5 (Annual)	
6	Benzo(a)pyrene Particulate Phase only	< 0.1	ng/m³	IS : 5182 (PART – 12) 2004, RA 2014	1 (Annual)	

Test Done By

Authorized Signatory Subhanga Praharaj

Managing Director/QM

*****END OF TEST REPORT*****

Page 1 of 1

This report refers to the values obtained at the time of testing and results related to the item tested. This report may not be reproduced in part or full without written permission of the Company.

Registered Office: