

Date: 15th Nov,2022

DCBL/RGP/ENV/ ECHC/372/2022

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 (April 2022 to September 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.

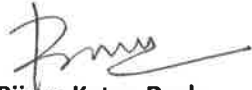
Ref: - Environment Clearance letter F. No. J-11011/352/2005- 1A II (I) dated 5th April 2007.

Respected Sir,

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

Thanking you

For, **Dalmia Cement (Bharat) Limited, Rajgangpur**



**Bijaya Ketan Dash
General Manager (Env. & Safety)**

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, Chandrasekharapur
BHUBANESWAR – 751023**

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

SIX MONTHLY COMPLIANCE REPORT

(APRIL, 2022 TO SEPTEMBER, 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 (April, 2022 to September, 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

Sl. 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.	<p>a. Complied.</p> <p>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. 10th May, 2016.</p> <p>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.</p> <p>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.</p>
ii	Continuous on-line monitoring system to monitor gaseous emission shall be controlled with in 50 mg/Nm ³ 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	<p>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</p> <p>b. Monitoring of ambient air quality and stack emission is carried out regularly in consultation with OSPCB and</p>

	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 downwind direction.	report is being submitted to the OSPCB on monthly basis and to the Ministry's Regional Office at Bhubaneswar on be half-yearly basis.
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/ Nm ³ . 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 store in closed roof sheds & clinker in silos.	<p>Air pollution control measures & systems are adopted:</p> <ol style="list-style-type: none"> Dust collection extraction system (Bag filters) have been installed and maintained at various transfer points such as loading/ unloading areas. Raw materials are transported through closed conveyor belts. Coal handling, cement grinding units are equipped with bag filters to control fugitive dust emissions. Bag house installed for CVRM & Coal mill to maintain stack emission as per standard. Road sweeping machines are deployed on regular cleaning of roads. Internal roads are concreted and water sprinkling on the roads are also carried out. Belt conveyors are thoroughly hood covered. Clinker is stored in clinker silo & transported by hatch adopter system. Raw material handling & its storing is carried out by closed shed. Water sprinkling dust suppression systems are installed at 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 reject 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 m ³ /d including 785 m ³ /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.	<ol style="list-style-type: none"> 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 is used for green belt development.
vii	All the cement dust collected from pollution control devices shall be recycled and reutilized in the process.	<ol style="list-style-type: none"> Dust collected from pollution control devices is recycled and reutilized in the process. Char is used as raw material, as per availability.

	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 recyclers/ re processors.	c.) Used oil & batteries are stored at earmarked area and disposed off through the authorized recyclers/ re processors.																																																						
viii	The company must harvest the rainwater from the roof tops and storm water drains to recharge the ground water and use the same water for the various activities of the project to conserve fresh water.	<p>Following rain water harvesting projects are existing</p> <p>a. Rain water harvesting by storm water drain have been made inside plant & near CPP.</p> <p>b. Roof top rain water-harvesting is being practices in some part of colony areas.</p> <p>c. Rain water harvesting projects from the roof top of raw material shed inside the plant is also being carried out.</p>																																																						
ix	Green belt shall be developed in at least 28.0 ha out of total 91.15 ha land in consultation with the local DFO as per the CPCB guidelines.	<p>Green belt cover has already been developed in and around of plant. Distributing of saplings to nearby villagers and plantation are being carried out in regular basis. Statistical data with cumulative figure is given here under:</p> <table border="1"> <thead> <tr> <th colspan="3">DETAILS OF YEAR WISE PLANTATION (CUMULATIVE STATUS)</th> </tr> <tr> <th>YEAR</th> <th>NO. TREES PLANTED</th> <th>PLANTATION IN & AROUND OF INDUSTRY/ SAPLING DISTRIBUTED</th> </tr> </thead> <tbody> <tr> <td>Up to march,2007-08</td> <td>148655</td> <td></td> </tr> <tr> <td>2008-2009</td> <td>155155</td> <td>2300</td> </tr> <tr> <td>2009-2010</td> <td>162401</td> <td>4800</td> </tr> <tr> <td>2010-2011</td> <td>171757</td> <td>6964</td> </tr> <tr> <td>2011-2012</td> <td>177957</td> <td>9964</td> </tr> <tr> <td>2012-2013</td> <td>183957</td> <td>14164</td> </tr> <tr> <td>2013-2014</td> <td>190246</td> <td>19664</td> </tr> <tr> <td>2014-2015</td> <td>196660</td> <td>27664</td> </tr> <tr> <td>2015-2016</td> <td>203892</td> <td>92664</td> </tr> <tr> <td>2016-2017</td> <td>209442</td> <td>130364</td> </tr> <tr> <td>2017-2018</td> <td>212431</td> <td>138922</td> </tr> <tr> <td>2018-2019</td> <td>214819</td> <td>139922</td> </tr> <tr> <td>2019-2020</td> <td>245077</td> <td>139922</td> </tr> <tr> <td>2020-2021</td> <td>255577</td> <td>139922</td> </tr> <tr> <td>2021-2022</td> <td>288478</td> <td>151922</td> </tr> <tr> <td>2022-2023</td> <td>291498</td> <td>182023</td> </tr> </tbody> </table>	DETAILS OF YEAR WISE PLANTATION (CUMULATIVE STATUS)			YEAR	NO. TREES PLANTED	PLANTATION IN & AROUND OF INDUSTRY/ SAPLING DISTRIBUTED	Up to march,2007-08	148655		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	2022-2023	291498	182023
DETAILS OF YEAR WISE PLANTATION (CUMULATIVE STATUS)																																																								
YEAR	NO. TREES PLANTED	PLANTATION IN & AROUND OF INDUSTRY/ SAPLING DISTRIBUTED																																																						
Up to march,2007-08	148655																																																							
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																																																						
2022-2023	291498	182023																																																						
x	The company shall undertake eco-development measures including community welfare measures in the project area.	Company has been continuously doing eco-development work in the surrounding area.																																																						
xi	All the recommendation mentioned in	It is being complied																																																						

	the Charter on the Corporate Responsibility for Environmental Protection (CREP) shall be strictly followed.	
xii	High calorific hazardous waste shall be used as fuel in the cement kiln. Accordingly, provision to be made in the kiln.	High calorific hazardous waste is being burnt in cement kiln. We have obtained Hazardous waste handling for co-processing authorization from SPCB, Odisha. Provision were made to utilize the hazardous and non-hazardous waste, as per the statute guideline.
xiii	Prior permission from the State Forest Department shall be obtained regarding likely impact of proposed expansion on 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.	The plant was constructed over non-forest land and an application to the Forest Deptt. Already submitted in this regard.

B. GENERAL CONDITION

Sl. 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.	Being Followed.												
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 SO ₂ and NO _x 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.	<p>a. Four numbers of ambient air quality monitoring stations are installed as per SPCB and CPCB guidelines.</p> <p>b. Data on ambient air quality and stack emission is submitted to SPCB/CPCB and MoEF&CC</p>												
iv	Industrial wastewater shall be properly collected, treated so as to conform 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.	<p>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.</p> <table border="1" data-bbox="1005 1648 1470 1888"> <thead> <tr> <th>Sl. No.</th> <th>parameter</th> <th>ETP outlet treated water</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>PH value</td> <td>7.3</td> </tr> <tr> <td>2</td> <td>Total suspended solids (mg/l)</td> <td>23</td> </tr> <tr> <td>3</td> <td>B.O.D (mg/l)</td> <td>08</td> </tr> </tbody> </table>	Sl. No.	parameter	ETP outlet treated water	1	PH value	7.3	2	Total suspended solids (mg/l)	23	3	B.O.D (mg/l)	08
Sl. No.	parameter	ETP outlet treated water												
1	PH value	7.3												
2	Total suspended solids (mg/l)	23												
3	B.O.D (mg/l)	08												

		<table border="1"> <tr> <td>4</td> <td>C.O.D (mg/l)</td> <td>27.60</td> </tr> <tr> <td>5</td> <td>Oil & Grease (mg/l)</td> <td>2.2</td> </tr> </table> <p>b. The treated water is utilized in the plant for machineries cooling, sprinkling on road & green belt development.</p>	4	C.O.D (mg/l)	27.60	5	Oil & Grease (mg/l)	2.2
4	C.O.D (mg/l)	27.60						
5	Oil & Grease (mg/l)	2.2						
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 shall be kept well within the standards (85dBA) by providing noise control measures including acoustic hoods, silencers, enclosures etc. on all sources of noise generation. The ambient noise levels shall confirm to the standards prescribed under EPA Rules, 1986 viz. 75 dBA (day time) and 70 dBA (night time).	Noise monitoring is being carried out regularly at specified locations. Following data is given herewith for four locations. Detail report is enclosed in Annexure-I						
vii	The project proponent shall comply with all the environmental protection measures and safeguards recommended in the Environmental Impact Assessment / Environmental management Plan.	Complied						
viii	As proposed in EIA / EMP, Rs.31.82 Crores and Rs.2.64 Crores earmarked toward the capital cost and recurring the expenditure / annum for environmental protection measures shall be used judiciously to implement the conditions as well as Ministry of Environment and forests as well as the State Government. The funds so provided shall not be diverted for any other purposes.	Complied.						
ix	The Regional Office of this Ministry at Bhubaneswar / Central Pollution Control Board / OSPCB shall monitor the stipulated conditions. A six monthly compliance report and the monitored data along with statistical interpretation should be submitted to them regularly	Complied. Six monthly reports are being submitted regularly.						
x	The project authorities should inform the public that the project has been accorded environmental clearance by the Ministry and copies of the clearance letter are available with the state pollution Control Board / Committee and may also be seen at Website of the Ministry of Environment and Forests at http://envfor.nic.in This shall be advertised within seven days from the date of issues of the clearance letter at least in two local newspapers that are widely circulated	Complied						

	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.	
xi	The project Authorities shall inform the Regional Office as well as The Ministry, the date of financial closure and final approval of the project by the concerned authorities and the date of commencing the land development work.	Complied
xii	The Regional office of the Ministry at Bhubaneswar / Central Pollution Control Board / State Pollution Board will monitor the stipulated conditions. A six monthly compliance report and the monitored data along with statistical interpretation should be submitted to them regularly.	Six monthly compliance report along with monitored data is being submitted regularly. Also, as per the notification, it is being sent by e-mail in soft copies.

ENVIRONMENTAL MONITORING REPORT

BASED ON DATA GENERATED

FROM

APRIL 2022 TO SEPTEMBER 2022

FOR

DALMIA CEMENT (BHARAT) LIMITED

At/Po: RAJGANGPUR, District: SUNDARGARH, ODISHA

AT

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:

Stack attached to	Particulate matter emission in mg/Nm ³					
	Apr-22	May-22	Jun-22	July-22	Aug-22	Sep-22
Cement VRM-1 B/F	20.96	25.03	19.93	14.0	12.29	6.58
Cement VRM-2 B/F	12.59	16.74	16.77	24.09	21.72	6.93
Cement VRM-3 B/F	8.52	8.11	11.95	9.4	10.52	9.45
Kiln & VRM BAG HOUSE, L-I	11.09	13.79	Kiln Shutdown	Kiln Shutdown	Kiln Shutdown	Kiln Shutdown
Coal Mill B/F, L-I	10.32	8.7	Shutdown	Shutdown	9.06	3.2
Cooler ESP, L-I	19.65	12.64	Kiln Shutdown	Kiln Shutdown	Kiln Shutdown	Kiln Shutdown
Kiln & VRM BAG HOUSE, L-II	13.39	14.8	9.44	8.13	9.26	8.21
Coal Mill B/F, L-II	10.15	10.99	5.34	6.29	11.93	5.18
Cooler ESP, L-II	11.52	17.85	17.82	21.63	18.03	17.26

Ambient air Monthly Average Data:

Location of sampling station	SO ₂ (µg/m ³)	NO _X (µg/m ³)	Particulate matter (size less than 10µm) or PM ₁₀ (µg/m ³)	Particulate matter (size less than 2.5µm) or PM _{2.5} (µg/m ³)	Ozone (O ₃) (µg/m ³)	Lead (Pb) (µg/m ³)	CO (mg/m ³)	Ammonia (NH ₃) (µg/m ³)	Benzen e (C ₆ H ₆) (µg/m ³)	Benzo(a) Pyrene (BaP) – particulate phase only (µg/m ³)	Arsenic (AS) (µg/m ³)	Nickel (Ni) (µg/m ³)
Workshop building	5	19	75	24	< 20.0	< 0.4	< 0.1	93	< 0.5	< 0.1	< 0.2	< 12.0
Engineering hostel building	5	22	66	23	21	< 0.4	< 0.1	108	< 0.5	< 0.1	< 0.2	< 12.0
Near water harvesting area of CPP	5	23	60	18	24	< 0.4	< 0.1	93	< 0.5	< 0.1	< 0.2	< 12.0
Store building	7	13	73	24	< 20.0	< 0.4	< 0.1	91	< 0.5	< 0.1	< 0.2	< 12.0
Canteen building	7	23	74	22	< 20.0	< 0.4	< 0.1	67	< 0.5	< 0.1	< 0.2	< 12.0
Loco gate	9	21	67	23	< 20.0	< 0.4	< 0.1	99	< 0.5	< 0.1	< 0.2	< 12.0

Ambient Noise Average Data:

Particular	Sampling locations							
	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	62.8	64.4	65.4	58.4	60	64.2	71.9	68.7
Noise level (L night) during night time	58	58.8	60.5	54	52.8	55.6	66.6	62.1



Cleenviron Private Limited

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



TC - 6816

TEST REPORT FOR STACK EMISSION MONITORING

FORMAT NO: CPL/FIM/58

ULR – TC68162200002446F
REPORT NO: CPL/R/SE/OCT-22/7

SAMPLE DRAWN BY CLEENVIRON PRIVATE LIMITED

REPORT ISSUE DATE: 06.10.2022

Name of the Customer : **M/s DALMIA CEMENT (BHARAT) LIMITED**
Address of the Customer : RGP Cement Factory, Rajgangpur – 770017, Dist: Sundargarh, Odisha
Sampling Method : IS 11255 (Part – 1): 1985, RA 2019

Sample ID No	:	CPL/SE/SEPT-22/68
Location of Sampling	:	Line – 1
Date of Sampling	:	26.09.2022
Time of Sampling	:	15:20 Hrs
Duration of Sampling	:	32 min
Sample Received on	:	28.09.2022
Date of Test	:	28.09.2022 – 29.09.2022

A. General Information About the Stack		:		
1. Stack Connected to	:	CVRM – 1		
2. Emission Due to	:	Slag, Clinker, Gypsum Grinding		
3. Material of Construction of Stack/Duct	:	Steel		
4. Shape of Stack/Duct	:	Circular		
5. Whether Stack is provide with Permanent Platform & Ladder	:	Yes		
6. Capacity	:	110 TPH		
7. Running Load	:	110 TPH		
B. Physical Characteristics of Stack		:		
1. Height of Stack from Ground Level	:	56 m		
2. Height of Sampling Port from Ground Level	:	NA		
3. Diameter/Dimension of Stack/ Duct at sampling point	:	2.8 m		
C. PARAMETERS ANALYSED		METHODS OF ANALYSIS	RESULTS OBTAINED	PERMISSIBLE LIMIT AS PER CTO
1. Ambient Temperature (°C)		IS 11255 Part – 3, 1985 (RA 2018)	36	-
2. Temperature of Gas Emission (°C)		IS 11255 Part – 3, 1985 (RA 2018)	78	-
3. Barometric Pressure (mm Hg)		IS 11255 Part – 3, 1985 (RA 2018)	742	-
4. Velocity of Gas Emitted (m/sec)		IS 11255 Part – 3, 1985 (RA 2018)	8.53	-
5. Quantity of Gas Emitted (Nm ³ /hr)		IS 11255 Part – 3, 1985 (RA 2018)	1, 56, 291.26	-
6. Particulate Matter Concentration (mg/Nm ³)		IS 11255 Part – 1, 1985 (RA 2019)	08	30
D. Pollution Control Device Installed		Bag Filter		

P. Sareni
Test Done By

[Signature]
Verified By



[Signature]
Authorized Signatory
Subhanga Praharaj
Managing Director

*****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:
D/318, KOELNAGAR, ROURKELA – 769014, Dist: SUNDARGARH, ODISHA

Branch Office & Laboratory:
D/124, KOELNAGAR, ROURKELA – 769014, Dist: SUNDARGARH, ODISHA

Tele Fax: 0661 – 2475746, email: cleenviron@gmail.com



Cleenviron Private Limited

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



TEST REPORT FOR STACK EMISSION MONITORING

FORMAT NO: CPL/FM/58

ULR – TC681622000002447F
REPORT NO: CPL/R/SE/OCT-22/8

SAMPLE DRAWN BY CLEENVIRON PRIVATE LIMITED

REPORT ISSUE DATE: 06.10.2022

Name of the Customer : **M/s DALMIA CEMENT (BHARAT) LIMITED**
Address of the Customer : RGP Cement Factory, Rajgangpur – 770017, Dist: Sundargarh, Odisha
Sampling Method : IS 11255 (Part – 1): 1985, RA 2019

Sample ID No	:	CPL/SE/SEPT-22/69
Location of Sampling	:	Line – 1
Date of Sampling	:	26.09.2022
Time of Sampling	:	14:32 Hrs
Duration of Sampling	:	32 min
Sample Received on	:	28.09.2022
Date of Test	:	28.09.2022 – 29.09.2022

A. General Information About the Stack		:	
1. Stack Connected to	:	CVRM – 2	
2. Emission Due to	:	Slag, Clinker, Gypsum Grinding	
3. Material of Construction of Stack/Duct	:	Steel	
4. Shape of Stack/Duct	:	Circular	
5. Whether Stack is provide with Permanent Platform & Ladder	:	Yes	
6. Capacity	:	110 TPH	
7. Running Load	:	100 TPH	
B. Physical Characteristics of Stack		:	
1. Height of Stack from Ground Level	:	65.5 m	
2. Height of Sampling Port from Ground Level	:	NA	
3. Diameter/Dimension of Stack/ Duct at sampling point	:	2.8 m	
C. PARAMETERS ANALYSED	METHODS OF ANALYSIS	RESULTS OBTAINED	PERMISSIBLE LIMIT AS PER CTO
1. Ambient Temperature (°C)	IS 11255 Part – 3, 1985 (RA 2018)	35	-
2. Temperature of Gas Emission (°C)	IS 11255 Part – 3, 1985 (RA 2018)	89	-
3. Barometric Pressure (mm Hg)	IS 11255 Part – 3, 1985 (RA 2018)	742	-
4. Velocity of Gas Emitted (m/sec)	IS 11255 Part – 3, 1985 (RA 2018)	8.84	-
5. Quantity of Gas Emitted (Nm ³ /hr)	IS 11255 Part – 3, 1985 (RA 2018)	1, 57, 265.86	-
6. Particulate Matter Concentration (mg/Nm ³)	IS 11255 Part – 1, 1985 (RA 2019)	05	30
D. Pollution Control Device Installed	Bag Filter		

P. Saseni
Test Done By

[Signature]
Verified By



[Signature]
Authorized Signatory
Subhanga Praharaj
Managing Director

*****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:
D/318, KOELNAGAR, ROURKELA – 769014, Dist: SUNDARGARH, ODISHA

Branch Office & Laboratory:
D/124, KOELNAGAR, ROURKELA – 769014, Dist: SUNDARGARH, ODISHA

Tele Fax: 0661 – 2475746, email: cleenviron@gmail.com



Cleenviron Private Limited

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



TEST REPORT FOR STACK EMISSION MONITORING

FORMAT NO: CPL/EM/58

ULR – TC68162200002448F
REPORT NO: CPL/R/SE/OCT-22/9

SAMPLE DRAWN BY CLEENVIRON PRIVATE LIMITED

REPORT ISSUE DATE: 06.10.2022

Name of the Customer : **M/s DALMIA CEMENT (BHARAT) LIMITED**
Address of the Customer : RGP Cement Factory, Rajgangpur – 770017, Dist: Sundargarh, Odisha
Sampling Method : IS 11255 (Part – 1): 1985, RA 2019

Sample ID No	:	CPL/SE/SEPT-22/70
Location of Sampling	:	Line – 1
Date of Sampling	:	26.09.2022
Time of Sampling	:	13:50 Hrs
Duration of Sampling	:	29 min
Sample Received on	:	28.09.2022
Date of Test	:	28.09.2022 – 29.09.2022

A. General information About the Stack		:	
1. Stack Connected to	:	CVRM – 3	
2. Emission Due to	:	Slag, Clinker, Gypsum Grinding	
3. Material of Construction of Stack/Duct	:	Steel	
4. Shape of Stack/Duct	:	Circular	
5. Whether Stack is provide with Permanent Platform & Ladder	:	Yes	
6. Capacity	:	210 TPH	
7. Running Load	:	210 TPH	
B. Physical Characteristics of Stack		:	
1. Height of Stack from Ground Level	:	82.2 m	
2. Height of Sampling Port from Ground Level	:	NA	
3. Diameter/Dimension of Stack/ Duct at sampling point	:	3.8 m	
C. PARAMETERS ANALYSED	METHODS OF ANALYSIS	RESULTS OBTAINED	PERMISSIBLE LIMIT AS PER CTO
1. Ambient Temperature (°C)	IS 11255 Part – 3, 1985 (RA 2018)	33	-
2. Temperature of Gas Emission (°C)	IS 11255 Part – 3, 1985 (RA 2018)	92	-
3. Barometric Pressure (mm Hg)	IS 11255 Part – 3, 1985 (RA 2018)	742	-
4. Velocity of Gas Emitted (m/sec)	IS 11255 Part – 3, 1985 (RA 2018)	9.71	-
5. Quantity of Gas Emitted (Nm ³ /hr)	IS 11255 Part – 3, 1985 (RA 2018)	3, 15, 481.94	-
6. Particulate Matter Concentration (mg/Nm ³)	IS 11255 Part – 1, 1985 (RA 2019)	09	30
D. Pollution Control Device Installed	Bag Filter		

P. Saseeni
Test Done By

[Signature]
Verified By



[Signature]
Authorized Signatory
Subhanga Praharaj
Managing Director

*****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:
D/318, KOELNAGAR, ROURKELA – 769014, Dist: SUNDARGARH, ODISHA

Branch Office & Laboratory:
D/124, KOELNAGAR, ROURKELA – 769014, Dist: SUNDARGARH, ODISHA

Tele Fax: 0661 – 2475746, email: cleenviron@gmail.com



Cleenviron Private Limited

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



TEST REPORT FOR STACK EMISSION MONITORING

FORMAT NO: CPL/FM/58

ULR – TC68162200002449F
REPORT NO: CPL/R/SE/OCT-22/10

SAMPLE DRAWN BY CLEENVIRON PRIVATE LIMITED

REPORT ISSUE DATE: 06.10.2022

Name of the Customer : M/s DALMIA CEMENT (BHARAT) LIMITED
Address of the Customer : RGP Cement Factory, Rajgangpur – 770017, Dist: Sundargarh, Odisha
Sampling Method : IS 11255 (Part – 1): 1985, RA 2019

Sample ID No	:	CPL/SE/SEPT-22/71
Location of Sampling	:	LINE – 2
Date of Sampling	:	27.09.2022
Time of Sampling	:	15:10 Hrs
Duration of Sampling	:	34 min
Sample Received on	:	28.09.2022
Date of Test	:	28.09.2022 – 29.09.2022

A. General Information About the Stack			
1. Stack Connected to	:	KILN & VRM RABH	
2. Emission Due to	:	Limestone Grinding	
3. Material of Construction of Stack/Duct	:	Steel	
4. Shape of Stack/Duct	:	Circular	
5. Whether Stack is provide with Permanent Platform & Ladder	:	Yes	
6. Capacity	:	450 TPH	
7. Running Load	:	375 TPH	
B. Physical Characteristics of Stack			
1. Height of Stack from Ground Level	:	135 m	
2. Height of Sampling Port from Ground Level	:	NA	
3. Diameter/Dimension of Stack/ Duct at sampling point	:	4.9 m	
C. PARAMETERS ANALYSED	METHODS OF ANALYSIS	RESULTS OBTAINED	PERMISSIBLE LIMIT AS PER CTO
1. Ambient Temperature (°C)	IS 11255 Part – 3, 1985 (RA 2018)	34	-
2. Temperature of Gas Emission (°C)	IS 11255 Part – 3, 1985 (RA 2018)	76	-
3. Barometric Pressure (mm Hg)	IS 11255 Part – 3, 1985 (RA 2018)	742	-
4. Velocity of Gas Emitted (m/sec)	IS 11255 Part – 3, 1985 (RA 2018)	8.05	-
5. Quantity of Gas Emitted (Nm ³ /hr)	IS 11255 Part – 3, 1985 (RA 2018)	4, 54, 905.18	-
6. Particulate Matter Concentration (mg/Nm ³)	IS 11255 Part – 1, 1985 (RA 2019)	07	30
7. Sulphur Dioxide(SO ₂) Concentration (mg/Nm ³)	IS 11255 Part – 2, 1985 (RA 2014)	17.92	100
8. Nitrogen Dioxide (NO ₂) Concentration (mg/Nm ³)	IS 11255 Part – 7, 2005 (RA 2017)	323.1	800
D. Pollution Control Device Installed	Bag Filter		

P. Sasaki
Test Done By

Verified By



Authorized Signatory
Subhanga Praharaj
Managing Director

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

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:
D/318, KOELNAGAR, ROURKELA – 769014, Dist: SUNDARGARH, ODISHA

Branch Office & Laboratory:
D/124, KOELNAGAR, ROURKELA – 769014, Dist: SUNDARGARH, ODISHA

Tele Fax: 0661 – 2475746, email: cleenviron@gmail.com



Cleenviron Private Limited

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



TEST REPORT FOR STACK EMISSION MONITORING

FORMAT NO: CPL/FM/58

ULR – TC681622000002450F
REPORT NO: CPL/R/SE/OCT-22/11

SAMPLE DRAWN BY CLEENVIRON PRIVATE LIMITED

REPORT ISSUE DATE: 06.10.2022

Name of the Customer : **M/s DALMIA CEMENT (BHARAT) LIMITED**
Address of the Customer : RGP Cement Factory, Rajgangpur – 770017, Dist: Sundargarh, Odisha
Sampling Method : IS 11255 (Part – 1): 1985, RA 2019

Sample ID No	:	CPL/SE/SEPT-22/72
Location of Sampling	:	Line – 2
Date of Sampling	:	27.09.2022
Time of Sampling	:	16:01 Hrs
Duration of Sampling	:	25 min
Sample Received on	:	28.09.2022
Date of Test	:	28.09.2022 – 29.09.2022

A. General Information About the Stack		:	:	
1. Stack Connected to	:	Coal Mill B/F		
2. Emission Due to	:	Coal		
3. Material of Construction of Stack/Duct	:	Steel		
4. Shape of Stack/Duct	:	Circular		
5. Whether Stack is provide with Permanent Platform & Ladder	:	Yes		
6. Capacity	:	60 TPH		
7. Running Load	:	25 TPH		
B. Physical Characteristics of Stack		:	:	
1. Height of Stack from Ground Level	:	68 m		
2. Height of Sampling Port from Ground Level	:	NA		
3. Diameter/Dimension of Stack/ Duct at sampling point	:	2.27 m		
C. PARAMETERS ANALYSED		METHODS OF ANALYSIS	RESULTS OBTAINED	PERMISSIBLE LIMIT AS PER CTO
1. Ambient Temperature (°C)		IS 11255 Part – 3, 1985 (RA 2018)	34	-
2. Temperature of Gas Emission (°C)		IS 11255 Part – 3, 1985 (RA 2018)	72	-
3. Barometric Pressure (mm Hg)		IS 11255 Part – 3, 1985 (RA 2018)	742	-
4. Velocity of Gas Emitted (m/sec)		IS 11255 Part – 3, 1985 (RA 2018)	11.05	-
5. Quantity of Gas Emitted (Nm ³ /hr)		IS 11255 Part – 3, 1985 (RA 2018)	1, 35, 605.73	-
6. Particulate Matter Concentration (mg/Nm ³)		IS 11255 Part – 1, 1985 (RA 2019)	12	30
D. Pollution Control Device Installed		Bag Filter		

P. Sareni
Test Done By

[Signature]
Verified By



[Signature]
Authorized Signatory
Subhanga Praharaj
Managing Director

****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:
D/318, KOELNAGAR, ROURKELA – 769014, Dist: SUNDARGARH, ODISHA

Branch Office & Laboratory:
D/124, KOELNAGAR, ROURKELA – 769014, Dist: SUNDARGARH, ODISHA

Tele Fax: 0661 – 2475746, email: cleenviron@gmail.com



Cleenviron Private Limited

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



TEST REPORT FOR STACK EMISSION MONITORING

FORMAT NO: CPL/FM/58

ULR - TC681622000002452F
REPORT NO: CPL/R/SE/OCT-22/13

SAMPLE DRAWN BY CLEENVIRON PRIVATE LIMITED

REPORT ISSUE DATE: 06.10.2022

Name of the Customer : M/s DALMIA CEMENT (BHARAT) LIMITED
Address of the Customer : RGP Cement Factory, Rajgangpur - 770017, Dist: Sundargarh, Odisha
Sampling Method : IS 11255 (Part - 1): 1985, RA 2019

Sample ID No	:	CPL/SE/SEPT-22/74
Location of Sampling	:	Line - 2
Date of Sampling	:	28.09.2022
Time of Sampling	:	08:35 Hrs
Duration of Sampling	:	41 min
Sample Received on	:	28.09.2022
Date of Test	:	28.09.2022 - 29.09.2022

A. General Information About the Stack		:	
1. Stack Connected to	:	Cooler ESP	
2. Emission Due to	:	Limestone	
3. Material of Construction of Stack/Duct	:	Steel	
4. Shape of Stack/Duct	:	Circular	
5. Whether Stack is provide with Permanent Platform & Ladder	:	Yes	
6. Capacity	:	NA	
7. Running Load	:	NA	
B. Physical Characteristics of Stack		:	
1. Height of Stack from Ground Level	:	44 m	
2. Height of Sampling Port from Ground Level	:	NA	
3. Diameter/Dimension of Stack/ Duct at sampling point	:	4.0 m	
C. PARAMETERS ANALYSED	METHODS OF ANALYSIS	RESULTS OBTAINED	PERMISSIBLE LIMIT AS PER CTO
1. Ambient Temperature (°C)	IS 11255 Part - 3, 1985 (RA 2018)	30	-
2. Temperature of Gas Emission (°C)	IS 11255 Part - 3, 1985 (RA 2018)	106	-
3. Barometric Pressure (mm Hg)	IS 11255 Part - 3, 1985 (RA 2018)	742	-
4. Velocity of Gas Emitted (m/sec)	IS 11255 Part - 3, 1985 (RA 2018)	7.33	-
5. Quantity of Gas Emitted (Nm ³ /hr)	IS 11255 Part - 3, 1985 (RA 2018)	2, 54, 375.73	-
6. Particulate Matter Concentration (mg/Nm ³)	IS 11255 Part - 1, 1985 (RA 2019)	03	30
D. Pollution Control Device Installed	ESP		

P. Sani
Test Done By



Authorized Signatory
Subhanga Praharaj
Managing Director

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

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.



Cleenviron Private Limited

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



TEST REPORT FOR AMBIENT AIR QUALITY MONITORING

ULR – TC681622000002431F
REPORT NO: CPL/R/AAQ/OCT-22/11

FORMAT NO: CPL/FM97

REPORT ISSUE DATE: 06.10.2022

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, EN 12341**

Environmental Conditions During Monitoring : Min. Temp.: 22.6°C Max. Temp.: 34.1°C Min. RH: 62% Max. RH: 100%

Sample ID No	:	CPL/AAQ/SEPT-22/347
Location of Sampling	:	Roof of General Store (Line – 1)
Date of Sampling	:	26.09.2022 – 27.09.2022
Sampling Period	:	1123 – 1006 Hrs
Time of Sampling	:	22.43 Hrs
Sample Received on	:	28.09.2022
Date of Test	:	28.09.2022 – 29.09.2022

Sl 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/m ³	CPL/SOP/01/PM2.5, Issue No: 02, dtd: 23.10.2017	60 (24 Hours)
2	PM 10	73	µg/m ³	EN 12341, 1998 Low Volume Sampler	100 (24 Hours)
3	Sulphur Dioxide (SO ₂)	07	µg/m ³	IS : 5182 (PART – 2) 2001, RA 2017	80 (24 Hours)
4	Nitrogen Dioxide (NO ₂)	13	µg/m ³	IS : 5182 (PART – 6) 2006, RA 2017	80 (24 Hours)
5	Ammonia (NH ₃)	91	µg/m ³	CPL/SOP/01/NH ₃ , Issue No: 02, dtd: 23.10.2017	400 (24 Hours)
6	Ozone (O ₃)	< 20	µg/m ³	IS – 5182 (PART – 9) 1974, RA 2019	180 (1 Hour)

P. Sareni
Test Done By

[Signature]
Verified By



[Signature]
Authorized Signatory
Subhanga Praharaj
Managing Director

*****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:
D/318, KOELNAGAR, ROURKELA – 769014, Dist: SUNDARGARH, ODISHA

Branch Office & Laboratory:
D/124, KOELNAGAR, ROURKELA – 769014, Dist: SUNDARGARH, ODISHA

Tele Fax: 0661 – 2475746, email: cleenviron@gmail.com



Cleenviron Private Limited

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/OCT-22/11N

REPORT ISSUE DATE: 06.10.2022

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, EN 12341**

Environmental Conditions During Monitoring	:	Min. Temp.: 22.6°C	Max. Temp.: 34.1°C	Min. RH: 62%	Max. RH: 100%
--	---	--------------------	--------------------	--------------	---------------

Sample ID No	:	CPL/AAQ/SEPT-22/347
Location of Sampling	:	Roof of General Store (Line – 1)
Date of Sampling	:	26.09.2022 – 27.09.2022
Sampling Period	:	1123 – 1006 Hrs
Time of Sampling	:	22.43 Hrs
Sample Received on	:	28.09.2022
Date of Test	:	28.09.2022 – 29.09.2022

Sl 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/m ³	IS : 5182 (PART – 22) 2004, RA 2019	1 (24 Hours)
2	Arsenic (As)	< 0.2	ng/m ³	CPL/SOP/01/As, Issue No: 02, dtd.: 23.10.2017	6 (Annual)
3	Nickel (Ni)	< 12	ng/m ³	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/m ³	IS : 5182 (PART – 11) 2006, RA 2017	5 (Annual)
6	Benzo(a)pyrene Particulate Phase only	< 0.1	ng/m ³	IS : 5182 (PART – 12) 2004, RA 2014	1 (Annual)

P. Saseni
 Test Done By

[Signature]
 Verified By



[Signature]
 Authorized Signatory
 Subhanga Praharaj
 Managing Director

*****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:
 D/318, KOELNAGAR, ROURKELA – 769014, Dist: SUNDARGARH, ODISHA

Branch Office & Laboratory:
 D/124, KOELNAGAR, ROURKELA – 769014, Dist: SUNDARGARH, ODISHA

Tele Fax: 0661 – 2475746, email: cleenviron@gmail.com



Cleenviron Private Limited

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



TEST REPORT FOR AMBIENT AIR QUALITY MONITORING

ULR – TC681622000002432F
REPORT NO: CPL/R/AAQ/OCT-22/12

FORMAT NO: CPL/FM57

REPORT ISSUE DATE: 06.10.2022

SAMPLE DRAWN BY CLEENVIRON PRIVATE LIMITED

Name of the Customer : **M/s DALMIA CEMENT (BHARAT) LIMITED**
Address of the Customer: **A/Po: RAJGANGPUR, SUNDARGARH – 770017, ODISHA**
Sampling Method : **IS: 5182**

Environmental Conditions During Monitoring	:	Min. Temp.: 22.6°C	Max. Temp.: 34.1°C	Min. RH: 62%	Max. RH: 100%
--	---	--------------------	--------------------	--------------	---------------

Sample ID No	:	CPL/AAQ/SEPT-22/371
Location of Sampling	:	Roof of Canteen Building
Date of Sampling	:	29.09.2022 – 30.09.2022
Sampling Period	:	1104 – 1001 Hrs
Time of Sampling	:	23.57 Hrs
Sample Received on	:	30.09.2022
Date of Test	:	30.09.2022 – 01.10.2022

Sl 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/m ³	CPL/SOP/01/PM2.5, Issue No: 02, dtd: 23.10.2017	60 (24 Hours)
2	PM 10	74	µg/m ³	IS : 5182 (PART – 23) 2006, RA 2017	100 (24 Hours)
3	Sulphur Dioxide (SO ₂)	07	µg/m ³	IS : 5182 (PART – 2) 2001, RA 2017	80 (24 Hours)
4	Nitrogen Dioxide (NO ₂)	23	µg/m ³	IS : 5182 (PART – 6) 2006, RA 2017	80 (24 Hours)
5	Ammonia (NH ₃)	67	µg/m ³	CPL/SOP/01/NH ₃ , Issue No: 02, dtd: 23.10.2017	400 (24 Hours)
6	Ozone (O ₃)	20	µg/m ³	IS – 5182 (PART – 9) 1974, RA 2019	180 (1 Hour)

P. Saseeni
Test Done By

[Signature]
Verified By



[Signature]
Authorized Signatory
Subhanga Praharaj
Managing Director

*****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:
D/318, KOELNAGAR, ROURKELA – 769014, Dist: SUNDARGARH, ODISHA

Branch Office & Laboratory:
D/124, KOELNAGAR, ROURKELA – 769014, Dist: SUNDARGARH, ODISHA

Tele Fax: 0661 – 2475746, email: cleenviron@gmail.com



Cleenviron Private Limited

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/OCT-22/12N

REPORT ISSUE DATE: 06.10.2022

SAMPLE DRAWN BY CLEENVIRO 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**

Environmental Conditions During Monitoring	:	Min. Temp.: 22.6°C	Max. Temp.: 34.1°C	Min. RH: 62%	Max. RH: 100%
--	---	--------------------	--------------------	--------------	---------------

Sample ID No	:	CPL/AAQ/SEPT-22/371
Location of Sampling	:	Roof of Canteen Building
Date of Sampling	:	29.09.2022 – 30.09.2022
Sampling Period	:	1104 – 1001 Hrs
Time of Sampling	:	23.57 Hrs
Sample Received on	:	30.09.2022
Date of Test	:	30.09.2022 – 01.10.2022

Sl 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/m ³	IS : 5182 (PART – 22) 2004, RA 2019	1 (24 Hours)
2	Arsenic (As)	< 0.2	ng/m ³	CPL/SOP/01/As, Issue No: 02, dtd.: 23.10.2017	6 (Annual)
3	Nickel (Ni)	< 12	ng/m ³	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/m ³	IS : 5182 (PART – 11) 2006, RA 2017	5 (Annual)
6	Benzo(a)pyrene Particulate Phase only	< 0.1	ng/m ³	IS : 5182 (PART – 12) 2004, RA 2014	1 (Annual)

P. Sasaki
 Test Done By

[Signature]
 Verified By



[Signature]
 Authorized Signatory
 Subhanga Praharaj
 Managing Director

*****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:
D/318, KOELNAGAR, ROURKELA – 769014, Dist: SUNDARGARH, ODISHA

Branch Office & Laboratory:
D/124, KOELNAGAR, ROURKELA – 769014, Dist: SUNDARGARH, ODISHA
Tele Fax: 0661 – 2475746, email: cleenviron@gmail.com



Cleenviron Private Limited

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



TEST REPORT FOR AMBIENT AIR QUALITY MONITORING

ULR – TC681622000002433F
REPORT NO: CPL/R/AAQ/OCT-22/13

FORMAT NO: CPL/FM/57

REPORT ISSUE DATE: 06.10.2022

SAMPLE DRAWN BY CLEENVIRON PRIVATE LIMITED

Name of the Customer : **M/s DALMIA CEMENT (BHARAT) LIMITED**
Address of the Customer: **A/Po: RAJGANGPUR, SUNDARGARH – 770017, ODISHA**
Sampling Method : **IS: 5182, EN 12341**

Environmental Conditions During Monitoring	:	Min. Temp.: 22.6°C	Max. Temp.: 34.1°C	Min. RH: 62%	Max. RH: 100%
--	---	--------------------	--------------------	--------------	---------------

Sample ID No	:	CPL/AAQ/SEPT-22/370
Location of Sampling	:	Near Atithi Niwas
Date of Sampling	:	29.09.2022 – 30.09.2022
Sampling Period	:	1050 – 1025 Hrs
Time of Sampling	:	23.35 Hrs
Sample Received on	:	30.09.2022
Date of Test	:	30.09.2022 – 01.10.2022

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	23	µg/m ³	CPL/SOP/01/PM2.5, Issue No: 02, dtd: 23.10.2017	60 (24 Hours)
2	PM 10	66	µg/m ³	EN 12341, 1998 Low Volume Sampler	100 (24 Hours)
3	Sulphur Dioxide (SO ₂)	05	µg/m ³	IS : 5182 (PART – 2) 2001, RA 2017	80 (24 Hours)
4	Nitrogen Dioxide (NO ₂)	22	µg/m ³	IS : 5182 (PART – 6) 2006, RA 2017	80 (24 Hours)
5	Ammonia (NH ₃)	108	µg/m ³	CPL/SOP/01/NH ₃ , Issue No: 02, dtd: 23.10.2017	400 (24 Hours)
6	Ozone (O ₃)	21	µg/m ³	IS – 5182 (PART – 9) 1974, RA 2019	180 (1 Hour)

P. Sareni
Test Done By

K. Nayak
Verified By



S. Subhanga
Authorized Signatory
Subhanga Praharaj
Managing Director

*****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:
D/318, KOELNAGAR, ROURKELA – 769014, Dist: SUNDARGARH, ODISHA

Branch Office & Laboratory:
D/124, KOELNAGAR, ROURKELA – 769014, Dist: SUNDARGARH, ODISHA

Tele Fax: 0661 – 2475746, email: cleenviron@gmail.com



Cleenviron Private Limited

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/OCT-22/13N

REPORT ISSUE DATE: 06.10.2022

SAMPLE DRAWN BY CLEENVIRO PRIVATE LIMITED

Name of the Customer : **M/s DALMIA CEMENT (BHARAT) LIMITED**
 Address of the Customer: **A/Po: RAJGANGPUR, SUNDARGARH – 770017, ODISHA**
 Sampling Method : **IS: 5182, EN 12341**

Environmental Conditions During Monitoring	:	Min. Temp.: 22.6°C	Max. Temp.: 34.1°C	Min. RH: 62%	Max. RH: 100%
--	---	--------------------	--------------------	--------------	---------------

Sample ID No	:	CPL/AAQ/SEPT-22/370
Location of Sampling	:	Near Atithi Niwas
Date of Sampling	:	29.09.2022 – 30.09.2022
Sampling Period	:	1050 – 1025 Hrs
Time of Sampling	:	23.35 Hrs
Sample Received on	:	30.09.2022
Date of Test	:	30.09.2022 – 01.10.2022

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/m ³	IS : 5182 (PART – 22) 2004, RA 2019	1 (24 Hours)
2	Arsenic (As)	< 0.2	ng/m ³	CPL/SOP/01/As, Issue No: 02, dtd.: 23.10.2017	6 (Annual)
3	Nickel (Ni)	< 12	ng/m ³	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/m ³	IS : 5182 (PART – 11) 2006, RA 2017	5 (Annual)
6	Benzo(a)pyrene Particulate Phase only	< 0.1	ng/m ³	IS : 5182 (PART – 12) 2004, RA 2014	1 (Annual)

P. Sareni
 Test Done By

[Signature]
 Verified By



[Signature]
 Authorized Signatory
 Subhanga Praharaj
 Managing Director

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

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.



Cleenviron Private Limited

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



TEST REPORT FOR AMBIENT AIR QUALITY MONITORING

ULR – TC681622000002429F
REPORT NO: CPL/R/AAQ/OCT-22/9

FORMAT NO: CPL/FM57

REPORT ISSUE DATE: 06.10.2022

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**

Environmental Conditions During Monitoring	:	Min. Temp.: 22.6°C	Max. Temp.: 34.1°C	Min. RH: 62%	Max. RH: 100%
--	---	--------------------	--------------------	--------------	---------------

Sample ID No	:	CPL/AAQ/SEPT-22/348
Location of Sampling	:	Near Refractory Gate
Date of Sampling	:	26.09.2022 – 27.09.2022
Sampling Period	:	1135 – 0945 Hrs
Time of Sampling	:	22.10 Hrs
Sample Received on	:	28.09.2022
Date of Test	:	28.09.2022 – 29.09.2022

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	23	µg/m ³	CPL/SOP/01/PM2.5, Issue No: 02, dtd: 23.10.2017	60 (24 Hours)
2	PM 10	67	µg/m ³	IS : 5182 (PART – 23) 2006, RA 2017	100 (24 Hours)
3	Sulphur Dioxide (SO ₂)	09	µg/m ³	IS : 5182 (PART – 2) 2001, RA 2017	80 (24 Hours)
4	Nitrogen Dioxide (NO ₂)	21	µg/m ³	IS : 5182 (PART – 6) 2006, RA 2017	80 (24 Hours)
5	Ammonia (NH ₃)	99	µg/m ³	CPL/SOP/01/NH ₃ , Issue No: 02, dtd: 23.10.2017	400 (24 Hours)
6	Ozone (O ₃)	< 20	µg/m ³	IS – 5182 (PART – 9) 1974, RA 2019	180 (1 Hour)

P. Saseeni
Test Done By

[Signature]
Verified By



[Signature]
Authorized Signatory
Subhanga Praharaj
Managing Director

*****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.



Cleenviron Private Limited

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/OCT-22/9N

REPORT ISSUE DATE: 06.10.2022

SAMPLE DRAWN BY CLEENVIRO 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**

Environmental Conditions During Monitoring	:	Min. Temp.: 22.6°C	Max. Temp.: 34.1°C	Min. RH: 62%	Max. RH: 100%
--	---	--------------------	--------------------	--------------	---------------

Sample ID No	:	CPL/AAQ/SEPT-22/348
Location of Sampling	:	Near Refractory Gate
Date of Sampling	:	26.09.2022 – 27.09.2022
Sampling Period	:	1135 – 0945 Hrs
Time of Sampling	:	22.10 Hrs
Sample Received on	:	28.09.2022
Date of Test	:	28.09.2022 – 29.09.2022

Sl 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/m ³	IS : 5182 (PART – 22) 2004, RA 2019	1 (24 Hours)
2	Arsenic (As)	< 0.2	ng/m ³	CPL/SOP/01/As, Issue No: 02, dtd.: 23.10.2017	6 (Annual)
3	Nickel (Ni)	< 12	ng/m ³	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/m ³	IS : 5182 (PART – 11) 2006, RA 2017	5 (Annual)
6	Benzo(a)pyrene Particulate Phase only	< 0.1	ng/m ³	IS : 5182 (PART – 12) 2004, RA 2014	1 (Annual)

P. Sareni
 Test Done By

[Signature]
 Verified By



[Signature]
 Authorized Signatory
 Subhanga Praharaj
 Managing Director

*****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:
 D/318, KOELNAGAR, ROURKELA – 769014, Dist: SUNDARGARH, ODISHA

Branch Office & Laboratory:
 D/124, KOELNAGAR, ROURKELA – 769014, Dist: SUNDARGARH, ODISHA

Tele Fax: 0661 – 2475746, email: cleenviron@gmail.com



Cleenviron Private Limited

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



TEST REPORT FOR AMBIENT AIR QUALITY MONITORING

ULR – TC681622000002428F
REPORT NO: CPL/R/AAQ/OCT-22/8

FORMAT NO: CPL/FM/57

REPORT ISSUE DATE: 06.10.2022

SAMPLE DRAWN BY CLEENVIRON PRIVATE LIMITED

Name of the Customer : **M/s DALMIA CEMENT (BHARAT) LIMITED**
Address of the Customer: A/Po: RAJGANGPUR, SUNDARGARH – 770017, ODISHA
Sampling Method : IS: 5182, EN 12341

Environmental Conditions During Monitoring	:	Min. Temp.: 22.6°C	Max. Temp.: 34.1°C	Min. RH: 62%	Max. RH: 100%
--	---	--------------------	--------------------	--------------	---------------

Sample ID No	:	CPL/AAQ/SEPT-22/354
Location of Sampling	:	Near Workshop Area (Line – 2)
Date of Sampling	:	27.09.2022 – 28.09.2022
Sampling Period	:	1103 – 0900 Hrs
Time of Sampling	:	21.57 Hrs
Sample Received on	:	28.09.2022
Date of Test	:	28.09.2022 – 29.09.2022

Sl 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/m ³	CPL/SOP/01/PM2.5, Issue No: 02, dtd: 23.10.2017	60 (24 Hours)
2	PM 10	75	µg/m ³	EN 12341, 1998 Low Volume Sampler	100 (24 Hours)
3	Sulphur Dioxide (SO ₂)	05	µg/m ³	IS : 5182 (PART – 2) 2001, RA 2017	80 (24 Hours)
4	Nitrogen Dioxide (NO ₂)	19	µg/m ³	IS : 5182 (PART – 6) 2006, RA 2017	80 (24 Hours)
5	Ammonia (NH ₃)	93	µg/m ³	CPL/SOP/01/NH ₃ , Issue No: 02, dtd: 23.10.2017	400 (24 Hours)
6	Ozone (O ₃)	< 20	µg/m ³	IS – 5182 (PART – 9) 1974, RA 2019	180 (1 Hour)

P. Caseni
Test Done By

[Signature]
Verified By



[Signature]
Authorized Signatory
Subhanga Praharaj
Managing Director

*****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: D/318, KOELNAGAR, ROURKELA – 769014, Dist: SUNDARGARH, ODISHA
Branch Office & Laboratory: D/124, KOELNAGAR, ROURKELA – 769014, Dist: SUNDARGARH, ODISHA
Tele Fax: 0661 – 2475746, email: cleenviron@gmail.com



Cleenviron Private Limited

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

TEST REPORT FOR AMBIENT AIR QUALITY MONITORING

FORMAT NO: CPL/FM/ST

REPORT NO: CPL/R/AAQ/OCT-22/8N

REPORT ISSUE DATE: 06.10.2022

SAMPLE DRAWN BY CLEENVIIRON 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, EN 12341

Environmental Conditions During Monitoring : Min. Temp.: 22.6°C Max. Temp.: 34.1°C Min. RH: 62% Max. RH: 100%

Sample ID No	:	CPL/AAQ/SEPT-22/354
Location of Sampling	:	Near Workshop Area (Line – 2)
Date of Sampling	:	27.09.2022 – 28.09.2022
Sampling Period	:	1103 – 0900 Hrs
Time of Sampling	:	21.57 Hrs
Sample Received on	:	28.09.2022
Date of Test	:	28.09.2022 – 29.09.2022

Sl 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/m ³	IS : 5182 (PART – 22) 2004, RA 2019	1 (24 Hours)
2	Arsenic (As)	< 0.2	ng/m ³	CPL/SOP/01/As, Issue No: 02, dtd.: 23.10.2017	6 (Annual)
3	Nickel (Ni)	< 12	ng/m ³	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/m ³	IS : 5182 (PART – 11) 2006, RA 2017	5 (Annual)
6	Benzo(a)pyrene Particulate Phase only	< 0.1	ng/m ³	IS : 5182 (PART – 12) 2004, RA 2014	1 (Annual)

P. Saseni
Test Done By

[Signature]
Verified By



[Signature]
Authorized Signatory
Subhanga Praharaj
Managing Director

*****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:
D/318, KOELNAGAR, ROURKELA – 769014, Dist: SUNDARGARH, ODISHA

Branch Office & Laboratory:
D/124, KOELNAGAR, ROURKELA – 769014, Dist: SUNDARGARH, ODISHA

Tele Fax: 0661 – 2475746, email: cleenviron@gmail.com



Cleenviron Private Limited

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



TEST REPORT FOR STACK EMISSION MONITORING

ULR – TC681622000001572F
REPORT NO: CPL/R/SE/JUN-22/76

FORMAT NO: CPL/FM/58

REPORT ISSUE DATE: 28.06.2022

SAMPLE DRAWN BY CLEENVIRON PRIVATE LIMITED

Name of the Customer : **M/s DALMIA CEMENT (BHARAT) LIMITED**
Address of the Customer : RGP Cement Factory, Rajgangpur – 770017, Dist: Sundargarh, Odisha
Sample ID No : **CPL/SE/JUN-22/64**
Name of Stack Monitored : CVRM – 1, Line – 1
Stack Connected To : CVRM – 1 Bag filter
Shape of Stack : Circular
Date of Sampling : 22.06.2022
Time of Sampling : 14 : 32 Hrs
Method of Sampling : IS 11255 (Part – 1): 1985, RA 2019
Sample Received on : 22.06.2022
Date of Test : 23.06.2022

Ambient Temperature in °C : 38
Stack Temperature in °C : 86
Average Stack Gas Velocity in m/sec : 7.35
Iso-kinetic Flow Rate in LPM : 26
Duration of Sampling in minute : 38

Particulate Matter Concentration : **Results Obtained** : **Permissible Limits**
: **14 mg/Nm³** : **30 mg/Nm³**

P. Saseeni
Test Done By

[Signature]
Verified By



[Signature]
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:
D/318, KOELNAGAR, ROURKELA – 769014, Dist: SUNDARGARH, ODISHA

Branch Office & Laboratory:
D/124, KOELNAGAR, ROURKELA – 769014, Dist: SUNDARGARH, ODISHA

Tele Fax: 0661 – 2475746, email: cleenviron@gmail.com



Cleenviron Private Limited

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



TC - 6816

TEST REPORT FOR STACK EMISSION MONITORING

FORMAT NO: CPLJFM/58

ULR - TC681622000001573F
REPORT NO: CPL/R/SE/JUN-22/77

REPORT ISSUE DATE: 28.06.2022

SAMPLE DRAWN BY CLEENVIRON PRIVATE LIMITED

Name of the Customer : **M/s DALMIA CEMENT (BHARAT) LIMITED**
Address of the Customer : RGP Cement Factory, Rajgangpur - 770017, Dist: Sundargarh, Odisha
Sample ID No : **CPL/SE/JUN-22/65**
Name of Stack Monitored : CVRM - 2, Line - 1
Stack Connected To : CVRM - 2 Bag filter
Shape of Stack : Circular
Date of Sampling : 22.06.2022
Time of Sampling : 11 : 55 Hrs
Method of Sampling : IS 11255 (Part - 1): 1985, RA 2019
Sample Received on : 22.06.2022
Date of Test : 23.06.2022

Ambient Temperature in °C : 36
Stack Temperature in °C : 94
Average Stack Gas Velocity in m/sec : 6.03
Iso-kinetic Flow Rate in LPM : 21
Duration of Sampling in minute : 47

Particulate Matter Concentration : **Results Obtained** : **Permissible Limits**
: **26 mg/Nm³** : **30 mg/Nm³**

P. Caseni
Test Done By



Subhanga Praharaj
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:
D/318, KOELNAGAR, ROURKELA - 769014, Dist: SUNDARGARH, ODISHA

Branch Office & Laboratory:
D/124, KOELNAGAR, ROURKELA - 769014, Dist: SUNDARGARH, ODISHA

Tele Fax: 0661 - 2475746, email: cleenviron@gmail.com



Cleenviron Private Limited

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



TC - 6816

TEST REPORT FOR STACK EMISSION MONITORING

FORMAT NO: CPL/FM/58

ULR – TC681622000001574F
REPORT NO: CPL/R/SE/JUN-22/78

REPORT ISSUE DATE: 28.06.2022

SAMPLE DRAWN BY CLEENVIIRON PRIVATE LIMITED

Name of the Customer : **M/s DALMIA CEMENT (BHARAT) LIMITED**
Address of the Customer : RGP Cement Factory, Rajgangpur – 770017, Dist: Sundargarh, Odisha
Sample ID No : **CPL/SE/JUN-22/66**
Name of Stack Monitored : CVRM – 3, Line – 1
Stack Connected To : CVRM – 3 Bag filter
Shape of Stack : Circular
Date of Sampling : 22.06.2022
Time of Sampling : 11 : 05 Hrs
Method of Sampling : IS 11255 (Part – 1): 1985, RA 2019
Sample Received on : 22.06.2022
Date of Test : 23.06.2022

Ambient Temperature in °C : 38
Stack Temperature in °C : 95
Average Stack Gas Velocity in m/sec : 7.72
Iso-kinetic Flow Rate in LPM : 27
Duration of Sampling in minute : 37

	<u>Results Obtained</u>	<u>Permissible Limits</u>
Particulate Matter Concentration	: 11 mg/Nm³	30 mg/Nm³

P. Saseni
Test Done By

[Signature]
Verified By



[Signature]
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:
D/318, KOELNAGAR, ROURKELA – 769014, Dist: SUNDARGARH, ODISHA

Branch Office & Laboratory:
D/124, KOELNAGAR, ROURKELA – 769014, Dist: SUNDARGARH, ODISHA

Tele Fax: 0661 – 2475746, email: cleenviron@gmail.com



Cleenviron Private Limited

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



TC - 6816

TEST REPORT FOR STACK EMISSION MONITORING

FORMAT NO: CPL/FM/58

ULR – TC681622000001578F
REPORT NO: CPL/R/SE/JUN-22/82

REPORT ISSUE DATE: 28.06.2022

SAMPLE DRAWN BY CLEENVIRON PRIVATE LIMITED

Name of the Customer : **M/s DALMIA CEMENT (BHARAT) LIMITED**
 Address of the Customer : RGP Cement Factory, Rajgangpur – 770017, Dist: Sundargarh, Odisha
 Sample ID No : **CPL/SE/JUN-22/72**
 Name of Stack Monitored : KILN & VRM RABH, LINE – 2
 Stack Connected To : KILN VRM
 Shape of Stack : Circular
 Date of Sampling : 23.06.2022
 Time of Sampling : 16 : 45 Hrs
 Method of Sampling : IS 11255 (Part – 1), (Part – 2) : 1985, RA 2019 & (Part – 7): 2005, RA 2017
 Sample Received on : 23.06.2022
 Date of Test : 24.06.2022

Ambient Temperature in °C : 38
 Stack Temperature in °C : 116
 Average Stack Gas Velocity in m/sec : 8.41
 Iso-kinetic Flow Rate in LPM : 27
 Duration of Sampling in minute : 37

	<u>Results Obtained</u>	<u>Permissible Limits</u>
Particulate Matter Concentration	: 11 mg/Nm ³	30 mg/Nm ³
Sulphur Dioxide as SO ₂	: 33.53 mg/Nm ³	100 mg/Nm ³
Nitrogen Dioxide as NO ₂	: 415.4 mg/Nm ³	800 mg/Nm ³

P. Saseeni
Test Done By

[Signature]
Verified By



[Signature]
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:
D/318, KOELNAGAR, ROURKELA – 769014, Dist: SUNDARGARH, ODISHA

Branch Office & Laboratory:
D/124, KOELNAGAR, ROURKELA – 769014, Dist: SUNDARGARH, ODISHA

Tele Fax: 0661 – 2475746, email: cleenviron@gmail.com



Cleenviron Private Limited

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



TEST REPORT FOR STACK EMISSION MONITORING

ULR – TC681622000001575F
REPORT NO: CPL/R/SE/JUN-22/79

FORMAT NO: CPL/FM/58

REPORT ISSUE DATE: 28.06.2022

SAMPLE DRAWN BY CLEENVIRON PRIVATE LIMITED

Name of the Customer : **M/s DALMIA CEMENT (BHARAT) LIMITED**
Address of the Customer : RGP Cement Factory, Rajgangpur – 770017, Dist: Sundargarh, Odisha
Sample ID No : **CPL/SE/JUN-22/70**
Name of Stack Monitored : Cooler ESP, Line – 2
Stack Connected To : Cooler, Line – 2
Shape of Stack : Circular
Date of Sampling : 23.06.2022
Time of Sampling : 14 : 40 Hrs
Method of Sampling : IS 11255 (Part – 1): 1985, RA 2019
Sample Received on : 23.06.2022
Date of Test : 24.06.2022

Ambient Temperature in °C : 39
Stack Temperature in °C : 85
Average Stack Gas Velocity in m/sec : 5.74
Iso-kinetic Flow Rate in LPM : 20
Duration of Sampling in minute : 50

Particulate Matter Concentration : **Results Obtained** : **Permissible Limits**
: **08 mg/Nm³** : **30 mg/Nm³**

P. Saseeni
Test Done By



Subhanga Praharaj
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:
D/318, KOELNAGAR, ROURKELA – 769014, Dist: SUNDARGARH, ODISHA

Branch Office & Laboratory:
D/124, KOELNAGAR, ROURKELA – 769014, Dist: SUNDARGARH, ODISHA

Tele Fax: 0661 – 2475746, email: cleenviron@gmail.com



Cleenviron Private Limited

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



TC - 6816

TEST REPORT FOR STACK EMISSION MONITORING

ULR - TC681622000001576F
REPORT NO: CPL/R/SE/JUN-22/80

FORMAT NO: CPL/FM/58

REPORT ISSUE DATE: 28.06.2022

SAMPLE DRAWN BY CLEENVIRON PRIVATE LIMITED

Name of the Customer : **M/s DALMIA CEMENT (BHARAT) LIMITED**
Address of the Customer : RGP Cement Factory, Rajgangpur - 770017, Dist: Sundargarh, Odisha
Sample ID No : **CPL/SE/JUN-22/69**
Name of Stack Monitored : Coal Mill B/F, Line - 2
Stack Connected To : Coal Mill Bag Filter
Shape of Stack : Circular
Date of Sampling : 23.06.2022
Time of Sampling : 15 : 55 Hrs
Method of Sampling : IS 11255 (Part - 1): 1985, RA 2019
Sample Received on : 23.06.2022
Date of Test : 24.06.2022

Ambient Temperature in °C : 38
Stack Temperature in °C : 75
Average Stack Gas Velocity in m/sec : 8.41
Iso-kinetic Flow Rate in LPM : 31
Duration of Sampling in minute : 32

Particulate Matter Concentration : **Results Obtained** : **Permissible Limits**
: **14 mg/Nm³** : **30 mg/Nm³**

P. Saseeni
Test Done By

[Signature]
Verified By



[Signature]
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:
D/318, KOELNAGAR, ROURKELA - 769014, Dist: SUNDARGARH, ODISHA

Branch Office & Laboratory:
D/124, KOELNAGAR, ROURKELA - 769014, Dist: SUNDARGARH, ODISHA

Tele Fax: 0661 - 2475746, email: cleenviron@gmail.com



Cleenviron Private Limited

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



TEST REPORT FOR AMBIENT AIR QUALITY MONITORING

ULR – TC68162200001569F
REPORT NO: CPL/R/AAQ/JUN-22/50

FORMAT NO: CPL/FM/57

REPORT ISSUE DATE: 28.06.2022

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, EN 12341

Environmental Conditions During Monitoring	:	Min. Temp.: 22.9°C	Max. Temp.: 37.3°C	Min. RH: 54%	Max. RH: 99%
--	---	--------------------	--------------------	--------------	--------------

Sample ID No	:	CPL/AAQ/JUN-22/322
Location of Sampling	:	Near Stores Building (Line – 1)
Date of Sampling	:	23.06.2022 – 24.06.2022
Sampling Period	:	1050 – 0900 Hrs
Time of Sampling	:	22.10 Hrs
Sample Received on	:	24.06.2022
Date of Test	:	24.06.2022 – 25.06.2022

Sl 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/m ³	CPL/SOP/01/PM2.5, Issue No: 02, dtd: 23.10.2017	60 (24 Hours)
2	PM 10	83	µg/m ³	EN 12341, 1998 Low Volume Sampler	100 (24 Hours)
3	Sulphur Dioxide (SO ₂)	06	µg/m ³	IS : 5182 (PART – 2) 2001, RA 2017	80 (24 Hours)
4	Nitrogen Dioxide (NO ₂)	21	µg/m ³	IS : 5182 (PART – 6) 2006, RA 2017	80 (24 Hours)
5	Ammonia (NH ₃)	109	µg/m ³	CPL/SOP/01/NH ₃ , Issue No: 02, dtd: 23.10.2017	400 (24 Hours)
6	Ozone (O ₃)	< 20	µg/m ³	IS – 5182 (PART – 9) 1974, RA 2019	180 (1 Hour)

P. Sasene
Test Done By

[Signature]
Verified By



[Signature]
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:
D/318, KOELNAGAR, ROURKELA – 769014, Dist: SUNDARGARH, ODISHA

Branch Office & Laboratory:
D/124, KOELNAGAR, ROURKELA – 769014, Dist: SUNDARGARH, ODISHA

Tele Fax: 0661 – 2475746, email: cleenviron@gmail.com



Cleenviron Private Limited

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/JUN-22/50N

REPORT ISSUE DATE: 28.06.2022

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, EN 12341

Environmental Conditions During Monitoring : Min. Temp.: 22.9°C | Max. Temp.: 37.3°C | Min. RH: 54% | Max. RH: 99%

Sample ID No	:	CPL/AAQ/JUN-22/322
Location of Sampling	:	Near Stores Building (Line – 1)
Date of Sampling	:	23.06.2022 – 24.06.2022
Sampling Period	:	1050 – 0900 Hrs
Time of Sampling	:	22.10 Hrs
Sample Received on	:	24.06.2022
Date of Test	:	24.06.2022 – 25.06.2022

Sl 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/m ³	IS : 5182 (PART – 22) 2004, RA 2019	1 (24 Hours)
2	Arsenic (As)	< 0.2	ng/m ³	CPL/SOP/01/As, Issue No: 02, dtd.: 23.10.2017	6 (Annual)
3	Nickel (Ni)	< 12	ng/m ³	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/m ³	IS : 5182 (PART – 11) 2006, RA 2017	5 (Annual)
6	Benzo(a)pyrene Particulate Phase only	< 0.1	ng/m ³	IS : 5182 (PART – 12) 2004, RA 2014	1 (Annual)

P. Saseni
Test Done By

[Signature]
Verified By



[Signature]
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:
D/318, KOELNAGAR, ROURKELA – 769014, Dist: SUNDARGARH, ODISHA

Branch Office & Laboratory:
D/124, KOELNAGAR, ROURKELA – 769014, Dist: SUNDARGARH, ODISHA

Tele Fax: 0661 – 2475746, email: cleenviron@gmail.com



Cleenviron Private Limited

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



TC - 6816

TEST REPORT FOR AMBIENT AIR QUALITY MONITORING

ULR – TC68162200001571F
REPORT NO: CPL/RAAQ/JUN-22/52

FORMAT NO: CPL/FM/57

REPORT ISSUE DATE: 28.06.2022

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, EN 12341**

Environmental Conditions During Monitoring : Min. Temp.: 22.9°C Max. Temp.: 37.3°C Min. RH: 54% Max. RH: 99%

Sample ID No	:	CPL/AAQ/JUN-22/399
Location of Sampling	:	Near Atithi Niwas
Date of Sampling	:	24.06.2022 – 25.06.2022
Sampling Period	:	1134 – 0939 Hrs
Time of Sampling	:	22.05 Hrs
Sample Received on	:	25.06.2022
Date of Test	:	25.06.2022 – 27.06.2022

Sl 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/m ³	CPL/SOP/01/PM2.5, Issue No: 02, dtd: 23.10.2017	60 (24 Hours)
2	PM 10	75	µg/m ³	EN 12341, 1998 Low Volume Sampler	100 (24 Hours)
3	Sulphur Dioxide (SO ₂)	07	µg/m ³	IS : 5182 (PART – 2) 2001, RA 2017	80 (24 Hours)
4	Nitrogen Dioxide (NO ₂)	19	µg/m ³	IS : 5182 (PART – 6) 2006, RA 2017	80 (24 Hours)
5	Ammonia (NH ₃)	73	µg/m ³	CPL/SOP/01/NH ₃ , Issue No: 02, dtd: 23.10.2017	400 (24 Hours)
6	Ozone (O ₃)	20	µg/m ³	IS – 5182 (PART – 9) 1974, RA 2019	180 (1 Hour)

P. Saseni
Test Done By

[Signature]
Verified By



[Signature]
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:
D/318, KOELNAGAR, ROURKELA – 769014, Dist: SUNDARGARH, ODISHA

Branch Office & Laboratory:
D/124, KOELNAGAR, ROURKELA – 769014, Dist: SUNDARGARH, ODISHA

Tele Fax: 0661 – 2475746, email: cleenviron@gmail.com



Cleenviron Private Limited

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/JUN-22/52N

REPORT ISSUE DATE: 28.06.2022

SAMPLE DRAWN BY CLEENVIRON PRIVATE LIMITED

Name of the Customer : **M/s DALMIA CEMENT (BHARAT) LIMITED**
 Address of the Customer: A/Po: RAJGANGPUR, SUNDARGARH – 770017, ODISHA
 Sampling Method : IS: 5182, EN 12341

Environmental Conditions During Monitoring	:	Min. Temp.: 22.9°C	Max. Temp.: 37.3°C	Min. RH: 54%	Max. RH: 99%
--	---	--------------------	--------------------	--------------	--------------

Sample ID No	:	CPL/AAQ/JUN-22/399
Location of Sampling	:	Near Atithi Niwas
Date of Sampling	:	24.06.2022 – 25.06.2022
Sampling Period	:	1134 – 0939 Hrs
Time of Sampling	:	22.05 Hrs
Sample Received on	:	25.06.2022
Date of Test	:	25.06.2022 – 27.06.2022

Sl 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/m ³	IS : 5182 (PART – 22) 2004, RA 2019	1 (24 Hours)
2	Arsenic (As)	< 0.2	ng/m ³	CPL/SOP/01/As, Issue No: 02, dtd.: 23.10.2017	6 (Annual)
3	Nickel (Ni)	< 12	ng/m ³	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/m ³	IS : 5182 (PART – 11) 2006, RA 2017	5 (Annual)
6	Benzo(a)pyrene Particulate Phase only	< 0.1	ng/m ³	IS : 5182 (PART – 12) 2004, RA 2014	1 (Annual)

P. Saseni
 Test Done By

[Signature]
 Verified By



[Signature]
 Authorized Signatory
 Subhanga Praharaj
 Managing Director/QM

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

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.



Cleenviron Private Limited

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



TC - 6816

TEST REPORT FOR AMBIENT AIR QUALITY MONITORING

ULR – TC681622000001566F
REPORT NO: CPL/R/AAQ/JUN-22/47

FORMAT NO: CPL/FM/57

REPORT ISSUE DATE: 28.06.2022

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, EN 12341

Environmental Conditions During Monitoring	:	Min. Temp.: 22.9°C	Max. Temp.: 37.3°C	Min. RH: 54%	Max. RH: 99%
--	---	--------------------	--------------------	--------------	--------------

Sample ID No	:	CPL/AAQ/JUN-22/311
Location of Sampling	:	Near Canteen Building (Line – 1)
Date of Sampling	:	22.06.2022 – 23.06.2022
Sampling Period	:	0935 – 0934 Hrs
Time of Sampling	:	23.59 Hrs
Sample Received on	:	23.06.2022
Date of Test	:	23.06.2022 – 24.06.2022

Sl 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/m ³	CPL/SOP/01/PM2.5, Issue No: 02, dtd: 23.10.2017	60 (24 Hours)
2	PM 10	70	µg/m ³	EN 12341, 1998 Low Volume Sampler	100 (24 Hours)
3	Sulphur Dioxide (SO ₂)	05	µg/m ³	IS : 5182 (PART – 2) 2001, RA 2017	80 (24 Hours)
4	Nitrogen Dioxide (NO ₂)	18	µg/m ³	IS : 5182 (PART – 6) 2006, RA 2017	80 (24 Hours)
5	Ammonia (NH ₃)	69	µg/m ³	CPL/SOP/01/NH ₃ , Issue No: 02, dtd: 23.10.2017	400 (24 Hours)
6	Ozone (O ₃)	< 20	µg/m ³	IS – 5182 (PART – 9) 1974, RA 2019	180 (1 Hour)

P. Saseni
Test Done By

[Signature]
Verified By



[Signature]
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.



Cleenviron Private Limited

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/JUN-22/47N

REPORT ISSUE DATE: 28.06.2022

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, EN 12341

Environmental Conditions During Monitoring	:	Min. Temp.: 22.9°C	Max. Temp.: 37.3°C	Min. RH: 54%	Max. RH: 99%
--	---	--------------------	--------------------	--------------	--------------

Sample ID No	:	CPL/AAQ/JUN-22/311
Location of Sampling	:	Near Canteen Building (Line – 1)
Date of Sampling	:	22.06.2022 – 23.06.2022
Sampling Period	:	0935 – 0934 Hrs
Time of Sampling	:	23.59 Hrs
Sample Received on	:	23.06.2022
Date of Test	:	23.06.2022 – 24.06.2022

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/m ³	IS : 5182 (PART – 22) 2004, RA 2019	1 (24 Hours)
2	Arsenic (As)	< 0.2	ng/m ³	CPL/SOP/01/As, Issue No: 02, dtd.: 23.10.2017	6 (Annual)
3	Nickel (Ni)	< 12	ng/m ³	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/m ³	IS : 5182 (PART – 11) 2006, RA 2017	5 (Annual)
6	Benzo(a)pyrene Particulate Phase only	< 0.1	ng/m ³	IS : 5182 (PART – 12) 2004, RA 2014	1 (Annual)

P. Saseni
 Test Done By

[Signature]
 Verified By

[Signature]
 Authorized Signatory
 Subhanga Praharaj
 Managing Director/QM



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

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.



Cleenviron Private Limited

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



TC - 6816

TEST REPORT FOR AMBIENT AIR QUALITY MONITORING

ULR – TC68162200001567F
REPORT NO: CPL/R/AAQ/JUN-22/48

FORMAT NO: CPL/FM157

REPORT ISSUE DATE: 28.06.2022

SAMPLE DRAWN BY CLEENVIRO PRIVATE LIMITED

Name of the Customer : **M/s DALMIA CEMENT (BHARAT) LIMITED**
Address of the Customer: A/Po: RAJGANGPUR, SUNDARGARH – 770017, ODISHA
Sampling Method : IS: 5182

Environmental Conditions During Monitoring	:	Min. Temp.: 22.9°C	Max. Temp.: 37.3°C	Min. RH: 54%	Max. RH: 99%
--	---	--------------------	--------------------	--------------	--------------

Sample ID No	:	CPL/AAQ/JUN-22/312
Location of Sampling	:	Near Refractory Gate
Date of Sampling	:	22.06.2022 – 23.06.2022
Sampling Period	:	0956 – 0906 Hrs
Time of Sampling	:	23.10 Hrs
Sample Received on	:	23.06.2022
Date of Test	:	23.06.2022 – 24.06.2022

Sl No	Parameters	Results Obtained	Unit	Method of Analysis	National Ambient Air Quality Standards, 2009 for Industrial, Residential, Rural & Other Area
1	PM 2.5	28	µg/m ³	CPL/SOP/01/PM2.5, Issue No: 02, dtd: 23.10.2017	60 (24 Hours)
2	PM 10	79	µg/m ³	IS : 5182 (PART – 23) 2006, RA 2017	100 (24 Hours)
3	Sulphur Dioxide (SO ₂)	07	µg/m ³	IS : 5182 (PART – 2) 2001, RA 2017	80 (24 Hours)
4	Nitrogen Dioxide (NO ₂)	20	µg/m ³	IS : 5182 (PART – 6) 2006, RA 2017	80 (24 Hours)
5	Ammonia (NH ₃)	115	µg/m ³	CPL/SOP/01/NH ₃ , Issue No: 02, dtd: 23.10.2017	400 (24 Hours)
6	Ozone (O ₃)	< 20	µg/m ³	IS – 5182 (PART – 9) 1974, RA 2019	180 (1 Hour)

P. Saseni
Test Done By

[Signature]
Verified By



[Signature]
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:
D/318, KOELNAGAR, ROURKELA – 769014, Dist: SUNDARGARH, ODISHA

Branch Office & Laboratory:
D/124, KOELNAGAR, ROURKELA – 769014, Dist: SUNDARGARH, ODISHA

Tele Fax: 0661 – 2475746, email: cleenviron@gmail.com



Cleenviron Private Limited

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

TEST REPORT FOR AMBIENT AIR QUALITY MONITORING

FORMAT NO: CPL/FW/57

REPORT NO: CPL/R/AAQ/JUN-22/48N

REPORT ISSUE DATE: 28.06.2022

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

Environmental Conditions During Monitoring	:	Min. Temp.: 22.9°C	Max. Temp.: 37.3°C	Min. RH: 54%	Max. RH: 99%
--	---	--------------------	--------------------	--------------	--------------

Sample ID No	:	CPL/AAQ/JUN-22/312
Location of Sampling	:	Near Refractory Gate
Date of Sampling	:	22.06.2022 – 23.06.2022
Sampling Period	:	0956 – 0906 Hrs
Time of Sampling	:	23.10 Hrs
Sample Received on	:	23.06.2022
Date of Test	:	23.06.2022 – 24.06.2022

Sl 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/m ³	IS : 5182 (PART – 22) 2004, RA 2019	1 (24 Hours)
2	Arsenic (As)	< 0.2	ng/m ³	CPL/SOP/01/As, Issue No: 02, dtd.: 23.10.2017	6 (Annual)
3	Nickel (Ni)	< 12	ng/m ³	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/m ³	IS : 5182 (PART – 11) 2006, RA 2017	5 (Annual)
6	Benzo(a)pyrene Particulate Phase only	< 0.1	ng/m ³	IS : 5182 (PART – 12) 2004, RA 2014	1 (Annual)

P. Saseni
 Test Done By

[Signature]
 Verified By



[Signature]
 Authorized Signatory
 Subhanga Praharaj
 Managing Director/QM

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

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.



Cleenviron Private Limited

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



TC - 6816

TEST REPORT FOR AMBIENT AIR QUALITY MONITORING

ULR - TC68162200001570F
REPORT NO: CPL/R/AAQ/JUN-22/51

FORMAT NO: CPL/FM/57

REPORT ISSUE DATE: 28.06.2022

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

Environmental Conditions During Monitoring	Min. Temp.: 22.9°C	Max. Temp.: 37.3°C	Min. RH: 54%	Max. RH: 99%
--	--------------------	--------------------	--------------	--------------

Sample ID No	: CPL/AAQ/JUN-22/323
Location of Sampling	: Near Workshop Building (Line - 2)
Date of Sampling	: 23.06.2022 - 24.06.2022
Sampling Period	: 0950 - 0932 Hrs
Time of Sampling	: 23.42 Hrs
Sample Received on	: 24.06.2022
Date of Test	: 24.06.2022 - 25.06.2022

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	23	µg/m ³	CPL/SOP/01/PM2.5, Issue No: 02, dtd: 23.10.2017	60 (24 Hours)
2	PM 10	78	µg/m ³	IS : 5182 (PART - 23) 2006, RA 2017	100 (24 Hours)
3	Sulphur Dioxide (SO ₂)	06	µg/m ³	IS : 5182 (PART - 2) 2001, RA 2017	80 (24 Hours)
4	Nitrogen Dioxide (NO ₂)	20	µg/m ³	IS : 5182 (PART - 6) 2006, RA 2017	80 (24 Hours)
5	Ammonia (NH ₃)	74	µg/m ³	CPL/SOP/01/NH ₃ , Issue No: 02, dtd: 23.10.2017	400 (24 Hours)
6	Ozone (O ₃)	22	µg/m ³	IS - 5182 (PART - 9) 1974, RA 2019	180 (1 Hour)

P. Sasaki
Test Done By

[Signature]
Verified By



[Signature]
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:
D/318, KOELNAGAR, ROURKELA - 769014, Dist: SUNDARGARH, ODISHA

Branch Office & Laboratory:
D/124, KOELNAGAR, ROURKELA - 769014, Dist: SUNDARGARH, ODISHA

Tele Fax: 0661 - 2475746, email: cleenviron@gmail.com



Cleenviron Private Limited

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/JUN-22/51N

REPORT ISSUE DATE: 28.06.2022

SAMPLE DRAWN BY CLEENVIRON PRIVATE LIMITED

Name of the Customer : **M/s DALMIA CEMENT (BHARAT) LIMITED**
Address of the Customer: A/Po: RAJGANGPUR, SUNDARGARH – 770017, ODISHA
Sampling Method : IS: 5182

Environmental Conditions During Monitoring	:	Min. Temp.:22.9°C	Max. Temp.: 37.3°C	Min. RH: 54%	Max. RH: 99%
--	---	-------------------	--------------------	--------------	--------------

Sample ID No	:	CPL/AAQ/JUN-22/323
Location of Sampling	:	Near Workshop Building (Line – 2)
Date of Sampling	:	23.06.2022 – 24.06.2022
Sampling Period	:	0950 – 0932 Hrs
Time of Sampling	:	23.42 Hrs
Sample Received on	:	24.06.2022
Date of Test	:	24.06.2022 – 25.06.2022

Sl 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/m ³	IS : 5182 (PART – 22) 2004, RA 2019	1 (24 Hours)
2	Arsenic (As)	< 0.2	ng/m ³	CPL/SOP/01/As, Issue No: 02, dtd.: 23.10.2017	6 (Annual)
3	Nickel (Ni)	< 12	ng/m ³	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/m ³	IS : 5182 (PART – 11) 2006, RA 2017	5 (Annual)
6	Benzo(a)pyrene Particulate Phase only	< 0.1	ng/m ³	IS : 5182 (PART – 12) 2004, RA 2014	1 (Annual)

P. Saseeni
Test Done By

[Signature]
Verified By



[Signature]
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:
D/318, KOELNAGAR, ROURKELA – 769014, Dist: SUNDARGARH, ODISHA

Branch Office & Laboratory:
D/124, KOELNAGAR, ROURKELA – 769014, Dist: SUNDARGARH, ODISHA

Tele Fax: 0661 – 2475746, email: cleenviron@gmail.com