

Ref: Env/ECHC/L-II/ 215

Date: 27.05.2021

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, 2020 to March, 2021) of EC letter for expansion Project from 1.2 MTPA to 2.9 MTPA of clinker and from 2.0 MTPA to 4.00 MTPA of cement of M/s OCL India Limited (A unit of Dalmia Bharat Cement) at Village – Rajgangpur, Tehsil Rajgangpur, District – Sundargarh, Odisha.**

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

Dear Sir,

With reference to above letter, we enclose herewith the six monthly compliance report (Ending March, 2021) of conditions stipulated in the Environmental Clearance for the Cement plant.

Thanking you

Yours sincerely



**(S. K. ROUT)**  
**Dy. Executive Director**



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 Bhayan, A/118, Nilakanthnagar, Unit – VIII  
BHUBANESWAR - 751012

**SIX MONTHLY COMPLIANCE REPORT  
(OCTOBER, 2020 TO MARCH, 2021)  
OF  
ENVIRONMENT CLEARANCE LETTER NO.  
J-11011/352/2005-1A II (I) dated 5<sup>th</sup> April 2007  
FOR EXPANSION CUM MODERNISATION PROJECT  
FROM 1.2 MTPA TO 2.9 MTPA OF CLINKER  
AND  
2.0 MTPA TO 4.0 MTPA OF CEMENT  
BY  
OCL INDIA LIMITED (DALMIA BHARAT CEMENT)  
RAJGANGPUR – 770017  
DIST- SUNDARGARH  
ODISHA**

Date- 26<sup>th</sup> May, 2021

**OCL INDIA LTD (A UNIT OF DALMIA BHARAT CEMENT), RAJGANGPUR, ODISHA.**

**Six monthly compliance report (October, 2020 to March, 2021) of conditions stipulated in Environmental Clearance Letter No. F. No. J-11011/352/2005-1A II (I) dated 5<sup>th</sup> April 2007, by MoEF&CC for OCL India Limited (Dalmia Cement Bharat Ltd.), 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. 10<sup>th</sup> 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.</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 <b>Annexure-I</b> 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 <sup>3</sup> 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	<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 <b>Annexure-I</b></p> <p>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</p>

	Regional office at Bhubaneswar half-yearly. One ambient air quality monitoring station shall be installed in downwind direction.	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 <sup>3</sup> . 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.	<p><b>Air pollution control measures &amp; systems are adopted:</b></p> <ol style="list-style-type: none"> <li>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.</li> <li>Coal handling, cement grinding units are equipped with bag filters to control fugitive dust emissions.</li> <li>Bag house installed for CVRM &amp; Coal mill to maintain stack emission as per standard.</li> <li>Road sweeping machines are deployed on regular cleaning of roads. Internal roads are concreted and water sprinkling on the roads are also carried out.</li> <li>Belt conveyors are thoroughly hood covered.</li> <li>Clinker is stored in clinker silo &amp; transported by hatch adopter system.</li> <li>Raw material handling &amp; its storing is carried out by closed shed.</li> <li>Water sprinkling dust suppression systems are installed at raw material handling yards.</li> </ol>
v	Asphalting/concreting 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 <sup>3</sup> /d including 785 m <sup>3</sup> /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"> <li>It is ensured that the water consumption shall not exceed the quantity mentioned and ground water source respectively.</li> <li>The treated water of ETP is reused. There is no effluent discharged outside the factory premises and "zero" discharge is adopted.</li> <li>Domestic sewerage is treated in STP. The treated water is used for green belt development.</li> </ol>
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	<ol style="list-style-type: none"> <li>Dust collected from pollution control devices is recycled and reutilized in the process.</li> <li>Char is used as raw material, as per availability.</li> <li>Used oil &amp; batteries are stored at earmarked area and disposed off through the authorized recyclers/ re processors.</li> </ol>

	from gear boxes and automotive batteries, etc shall be properly stored in a designated area and sold to 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.	Following rain water harvesting projects are existing a. Rain water harvesting by storm water drain have been made inside plant & near CPP. b. Roof top rain water-harvesting is being practices in some part of colony areas. c. Rain water harvesting projects from the roof top of raw material shed inside the plant is also being carried out.																																																
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.	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: <table border="1" data-bbox="754 701 1437 1379"> <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 &amp; 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> </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
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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 the Charter on the Corporate Responsibility for Environmental Protection (CREP) shall be strictly followed.	It is being complied																																																
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.
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## 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.	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 SO <sub>2</sub> and NO <sub>x</sub> 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 guideline, which are shown in the Table A.iii.a</p> <p>b. Data on ambient air quality and stack emission is submitted to SPCB/CPCB and MoEF&amp;CC</p>																		
iv	Industrial wastewater shall be properly collected, treated so as to conform to the standards prescribed under GSR 422 (E) dated 19 <sup>th</sup> May 1993 and 31 <sup>st</sup> 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"> <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>7.6</td> </tr> <tr> <td>2</td> <td>Total suspended solids (mg/l)</td> <td>&lt;2.5</td> </tr> <tr> <td>3</td> <td>B.O.D (mg/l)</td> <td>28.0</td> </tr> <tr> <td>4</td> <td>C.O.D (mg/l)</td> <td>91.4</td> </tr> <tr> <td>5</td> <td>Oil &amp; Grease (mg/l)</td> <td>&lt;2.0</td> </tr> </tbody> </table> <p>b. The treated water is utilised in the plant for machineries cooling, sprinkling on road &amp; green belt development.</p>	Sl. No.	parameter	ETP outlet treated water	1	PH value	7.6	2	Total suspended solids (mg/l)	<2.5	3	B.O.D (mg/l)	28.0	4	C.O.D (mg/l)	91.4	5	Oil & Grease (mg/l)	<2.0
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5	Oil & Grease (mg/l)	<2.0																		
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.	<p>Complied.</p> <p>Regular disposal of Hazardous waste, as per Rule are maintained and Form-IV is being submitted to OSPCB with required information.</p>																		
vi	The overall noise levels in and around the plant area	Noise monitoring is being carried out regularly																		

	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 conform to the standards prescribed under EPA Rules, 1986 viz. 75 dBA (day time) and 70 dBA (night time).	at specified locations. Following data is given herewith for four locations. Detail report is enclosed in <b>Annexure-I</b>
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 <a href="http://envfor.nic.in">http://envfor.nic.in</a> 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 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.	Complied
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**

**OCTOBER 2020 TO MARCH 2021**

**FOR**

**DALMIA CEMENT (BHARAT) LIMITED**

**[Formerly, OCL India Limited]**

**At/Po: RAJGANGPUR, District: SUNDARGARH, ODISHA**

**AT**

**CEMENT PLANT (LINE – 1 & LINE - 2), CPP**

**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 <sup>3</sup>					
	OCT, 2020	NOV, 2020	DEC, 2020	JAN, 2021	FEB, 2021	MAR, 2021
Cement VRM-1 B/F	9.8	18.6	13.9	23.6	16.5	13
Cement VRM-2 B/F	10.7	14.2	8.3	17.9	12.7	15.3
Cement VRM-3 B/F	20.2	12.9	11.9	8.6	11.1	11.8
Kiln & VRM BAG HOUSE(L-I)	5.6	5.9	6.8	8.5	7.9	8
Cooler ESP, L-I	15.7	14.1	16.4	11.4	16.9	9.3
Coal Mill B/F, L-I	9.7	10.8	11.4	13.3	10.3	13.3
Kiln & VRM BAG HOUSE (L-II)	7.8	8.6	10.2	10.4	13.2	9.1
Coal Mill B/F, L-II	10	11.8	13.7	12.9	9.8	15
Cooler ESP, L-II	13.6	16.3	18.2	17.5	18.6	12.4

## AMBIENT AIR AVG. DATA (FROM OCTOBER 2020 TO MARCH 2021)

Location of sampling station	SO <sub>2</sub> (ug/m <sup>3</sup> )	NO <sub>X</sub> (ug/m <sup>3</sup> )	PM <sub>10</sub> (ug/m <sup>3</sup> )	PM <sub>2.5</sub> (ug/m <sup>3</sup> )	Ozone (o <sub>3</sub> ) (ug/m <sup>3</sup> )	Lead (Pb) (ug/m <sup>3</sup> )	CO (mg/m <sup>3</sup> )	Ammonia (nh <sub>3</sub> ) (ug/m <sup>3</sup> )	Benzene (C <sub>6</sub> H <sub>6</sub> ) (ug/m <sup>3</sup> )	Benzo (a) Pyrene (BaP) – (ug/m <sup>3</sup> )	Arsenic (AS) (ug/m <sup>3</sup> )	Nickel (Ni) (ug/m <sup>3</sup> )
Workshop building	< 3	08	60	21	< 19.6	< 0.4	< 0.1	< 20	< 0.5	< 0.1	< 0.1	< 12.0
Engineering hostel building	16	52	83	29	<19.6	<0.4	<0.1	98	<0.5	<0.1	<0.1	<12.0
Project site (near colony)	< 3	10	45	16	< 19.6	< 0.4	< 0.1	22	< 0.5	< 0.1	< 0.1	< 12.0
Canteen building	< 03	0.7	85	29	< 19.6	< 0.4	< 0.1	20	< 0.5	< 0.1	< 0.1	< 12.0
Loco gate	03	11	60	21	< 19.6	< 0.4	< 0.1	25	< 0.5	< 0.1	< 0.1	< 12.0

## NOISE AVG. DATA (FROM OCTOBER 2020 TO MARCH 2021)

Particular (Noise level)	Sampling locations							
	Store building	Engg. hostel building	Loco gate	Near canteen	OCL township/colony	Workshop building	CCR building	Near water pond of CPP
Noise level(L. day) during day time	64.5	70.8	67.8	58.7	57.1	61.6	72.5	73.2
Noise level (L. night) during night time	56.2	62.3	62.3	54.8	53.9	58.9	68	67.5



# Cleenviron Private Limited

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



Certificate No. TC - 6012

## TEST REPORT FOR AMBIENT AIR QUALITY MONITORING

FORMAT NO: CPL/MS7

ULR - TC681621000000580P  
REPORT NO: CPL/RAAQ/MAR-21/32

REPORT ISSUE DATE: 27.03.2021

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**  
 Location of Monitoring : **STORE BUILDING**  
 Monitoring Station Code : **A2**  
 Sample Received on : **25.03.2021**  
 Test Carried out on : **25.03.2021 - 26.03.2021**

Environmental Conditions During Monitoring : Min Temp.:16.2°C Max Temp.:36.5°C Min RH:13% Max RH:91%

Sl No	Date of Sampling	Sample ID	Parameters					
			PM <sub>2.5</sub>	PM <sub>10</sub>	SO <sub>2</sub>	NO <sub>2</sub>	NH <sub>3</sub>	O <sub>3</sub>
Units			µg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>
Method of Analysis			CPL/SOP/PM2.5, Issue No: 02, dtd: 23.10.2017	EN 12341, 1998 Low Volume Sampler	IS:5182 (Part - 2) 2001, RA 2017	IS: 5182 (Part - 6) 2006, RA 2017	CPL/SOP/0/NH <sub>3</sub> , Issue No: 02, dtd: 23.10.2017	IS:5182 (Part - 8) 1974, RA 2014
1.	23.03.2021 - 24.03.2021	CPL/AAQ/MAR-21/495	22	64	03	08	29	< 19.6
National Ambient Air Quality Standards, CPCB Notification New Delhi, 18 <sup>th</sup> November, 2009 for Industrial, Residential, Rural & Other Area			60 (24 Hours Average)	100 (24 Hours Average)	80 (24 Hours Average)	80 (24 Hours Average)	400 (24 Hours Average)	180 (1 Hour Average)

Sl No	Date of Sampling	Sample ID	Parameters					
			Lead (Pb)	Arsenic (As)	Nickel (Ni)	*Benzene (C <sub>6</sub> H <sub>6</sub> )	*Carbon Monoxide (CO)	*Benzo(a)pyrene (BaP) - Particulate Phase only
Units			µg/m <sup>3</sup>	ng/m <sup>3</sup>	ng/m <sup>3</sup>	µg/m <sup>3</sup>	mg/m <sup>3</sup>	ng/m <sup>3</sup>
Method of Analysis			IS 5182 (Part - 22): 2004, RA 2014	CPL/SOP/HAAs, Issue No: 02, dtd: 23.10.2017	CPL/SOP/0/Ni, Issue No: 04, dtd: 23.10.2017	IS 5142 (Part - 11): 2009, RA 2017	Electro-chemical Sensor	IS 5182 (Part - 12)
1.	23.03.2021 - 24.03.2021	CPL/AAQ/MAR-21/495	< 0.4	< 0.1	< 12.0	< 0.5	< 0.1	< 0.1
National Ambient Air Quality Standards, CPCB Notification New Delhi, 18 <sup>th</sup> November, 2009 for Industrial, Residential, Rural & Other Area			1.0 (24 Hours Average)	06 (Annual Average)	20 (Annual Average)	05 (Annual Average)	4 (1 Hour Average)	01 (Annual Average)

\*Parameters are not under NABL scope.

P. Sabeni  
Test Done By



P. Das  
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.

Registered Office:  
D/218, KOELNAGAR, ROURKELA - 769014, Dist: SUNDARGARH, ODISHA

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

Tele Fax: 0661 - 2475748, email: cleenviron@gmail.com



# Cleenviron Private Limited

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



Certificate No: TC-0018

## TEST REPORT FOR AMBIENT AIR QUALITY MONITORING

FORMAT NO: CPL/FM/07

ULR - TC68162100000585P  
REPORT NO: CPL/R/AAQ/MAR-21/37

REPORT ISSUE DATE: 27.03.2021

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**  
 Location of Monitoring : **NEAR ENGINEERING HOSTEL**  
 Monitoring Station Code : **A7**  
 Sample Received on : **23.03.2021**  
 Test Carried out on : **23.03.2021 - 24.03.2021**

Environmental Conditions During Monitoring : Min Temp.:16.2°C Max Temp.:36.5°C Min RH:13% Max RH:91%

Sl No	Date of Sampling	Sample ID	Parameters					
			PM <sub>2.5</sub>	PM <sub>10</sub>	SO <sub>2</sub>	NO <sub>2</sub>	NH <sub>3</sub>	O <sub>3</sub>
Units			µg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>
Method of Analysis			CPL/SOP/01/PM2.5, Issue No: 02, dtd: 23.10.2017	EN 12341, 1998 Low Volume Sampler	IS:5182 (Part- 2) 2001, RA 2017	IS: 5182 (Part - 6) 2006, RA 2017	CPL/SOP/01/NH3, Issue No: 02, dtd: 23.10.2017	IS:5182 (Part - 8) 1974, RA 2014
1,	22.03.2021 - 23.03.2021	CPL/AAQ/MAR-21/399	29	83	16	52	98	< 19.6
National Ambient Air Quality Standards, CPCB Notification New Delhi, 18 <sup>th</sup> November, 2009 for Industrial, Residential, Rural & Other Area			60 (24 Hours Average)	100 (24 Hours Average)	80 (24 Hours Average)	80 (24 Hours Average)	400 (24 Hours Average)	180 (1 Hour Average)

Sl No	Date of Sampling	Sample ID	Parameters					
			Lead (Pb)	Arsenic (As)	Nickel (Ni)	*Benzene (C <sub>6</sub> H <sub>6</sub> )	*Carbon Monoxide (CO)	*Benzo(a)pyrene (BaP) - Particulate Phase only
Units			µg/m <sup>3</sup>	ng/m <sup>3</sup>	ng/m <sup>3</sup>	µg/m <sup>3</sup>	mg/m <sup>3</sup>	ng/m <sup>3</sup>
Method of Analysis			IS 5182 (Part-22): 2004, RA 2014	CPL/SOP/01/As, Issue No: 02, dtd: 23.10.2017	CPL/SOP/01/Ni, Issue No: 02, dtd: 23.10.2017	IS 5182 (Part - 11): 2006, RA 2017	Electro-chemical Sensor	IS 5182 (Part - 12)
1,	22.03.2021 - 23.03.2021	CPL/AAQ/MAR-21/399	< 0.4	< 0.1	< 12.0	< 0.5	< 0.1	< 0.1
National Ambient Air Quality Standards, CPCB Notification New Delhi, 18 <sup>th</sup> November, 2009 for Industrial, Residential, Rural & Other Area			1.0 (24 Hours Average)	06 (Annual Average)	20 (Annual Average)	05 (Annual Average)	4 (1 Hour Average)	01 (Annual Average)

\*Parameters are not under NABL scope.

P. Saini  
Test Done By



P. Dine  
Verified By

*Subhanga Praharaj*  
 Authorized Signatory  
 Subhanga Praharaj  
 Managing Director/QM

\*\*\*\*END OF TEST REPORT\*\*\*\*  
Page 1 of 1

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 Tele Fax: 0661 - 2473746, email: cleenviron@gmail.com



# Cleenviron Private Limited

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



Certificate No. TC - 8818

## TEST REPORT FOR AMBIENT AIR QUALITY MONITORING

ULR - TC681821000000584P  
REPORT NO: CPL/R/AAQ/MAR-21/36

FORMAT NO: CPL/PMIST

REPORT ISSUE DATE: 27.03.2021

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 (Part - 2), (Part - 6) & (Part - 11), EN 12341**  
 Location of Monitoring : **NEAR CANTEEN BUILDING**  
 Monitoring Station Code : **A6**  
 Sample Received on : **25.03.2021**  
 Test Carried out on : **25.03.2021 - 26.03.2021**

Environmental Conditions During Monitoring	Min Temp.:9.5°C	Max Temp.:31.3°C	Min RH:19%	Max RH:79%
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Sl No	Date of Sampling	Sample ID	Parameters					
			PM <sub>2.5</sub>	PM <sub>10</sub>	SO <sub>2</sub>	NO <sub>2</sub>	NH <sub>3</sub>	O <sub>3</sub>
Units			µg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>
Method of Analysis			CPL/SOP/PM2.5, Issue No: 02, dtd: 23.10.2017	EN 12341, 1998 Low Volume Sampler	IS:5182 (Part - 2) 2001, RA 2017	IS: 5182 (Part - 6) 2006, RA 2017	CPL/SOP/NH <sub>3</sub> , Issue No: 02, dtd: 23.10.2017	IS:5182 (Part - 3) 1974, RA 2014
1.	23.03.2021 - 24.03.2021	CPL/AAQ/MAR-21/497	29	85	< 3	07	20	< 19.6
National Ambient Air Quality Standards, CPCB Notification New Delhi, 18 <sup>th</sup> November, 2009 for Industrial, Residential, Rural & Other Area			60 (24 Hours Average)	100 (24 Hours Average)	80 (24 Hours Average)	80 (24 Hours Average)	400 (24 Hours Average)	180 (1 Hour Average)

Sl No	Date of Sampling	Sample ID	Parameters					
			Lead (Pb)	Arsenic (As)	Nickel (Ni)	*Benzene (C <sub>6</sub> H <sub>6</sub> )	*Carbon Monoxide (CO)	*Benzo(a)pyrene (BaP) - Particulate Phase only
Units			µg/m <sup>3</sup>	ng/m <sup>3</sup>	ng/m <sup>3</sup>	µg/m <sup>3</sup>	mg/m <sup>3</sup>	ng/m <sup>3</sup>
Method of Analysis			IS 5182 (Part - 21) 2004, RA 2014	CPL/SOP/As, Issue No: 02, dtd: 23.10.2017	CPL/SOP/Ni, Issue No: 01, dtd: 23.10.2017	IS 5182 (Part - 11) 2006, RA 2017	Electro-chemical Sensor	IS 5182 (Part - 12)
1.	23.03.2021 - 24.03.2021	CPL/AAQ/MAR-21/497	< 0.4	< 0.1	< 12.0	< 0.5	< 0.1	< 0.1
National Ambient Air Quality Standards, CPCB Notification New Delhi, 18 <sup>th</sup> November, 2009 for Industrial, Residential, Rural & Other Area			1.0 (24 Hours Average)	06 (Annual Average)	20 (Annual Average)	05 (Annual Average)	4 (1 Hour Average)	01 (Annual Average)

\*Parameters are not under NABL scope.

P. Sahu  
Test Done By



P. D. Jena  
Verified By

Authorized Signatory  
Subhanga Prahara  
Managing Director/QM

END OF TEST REPORT  
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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.



Certificate No: TC - 8818

## TEST REPORT FOR AMBIENT AIR QUALITY MONITORING

FORMAT NO: CPL/FMST

ULR - TC681621000000583P

REPORT NO: CPL/RAAQ/MAR-21/35

REPORT ISSUE DATE: 27.03.2021

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  
 Location of Monitoring : **NEAR LOCO GATE**  
 Monitoring Station Code : A5  
 Sample Received on : 25.03.2021  
 Test Carried out on : 25.03.2021 - 26.03.2021


Environmental Conditions During Monitoring : Min Temp.:16.2°C Max Temp.:36.5°C Min RH:13% Max RH:91%

Sl No	Date of Sampling	Sample ID	Parameters					
			PM <sub>2.5</sub>	PM <sub>10</sub>	SO <sub>2</sub>	NO <sub>2</sub>	NH <sub>3</sub>	O <sub>3</sub>
Units			µg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>
Method of Analysis			CPL/SOP/UPM2.5, Issue No: 02, dtd: 23.10.2017	EN 12341, 1998 Low Volume Sampler	IS: 5182 (Part - 2) 2001, RA 2017	IS: 5182 (Part - 6) 2016, RA 2017	CPL/SOP/UPM11, Issue No: 02, dtd: 23.10.2017	IS: 5182 (Part - 3) 1974, RA 2014
1	23.03.2021 - 24.03.2021	CPL/AAQ/MAR-21/496	21	60	03	11	25	< 19.6
National Ambient Air Quality Standards, CPCB Notification New Delhi, 18 <sup>th</sup> November, 2009 for Industrial, Residential, Rural & Other Area			60 (24 Hours Average)	100 (24 Hours Average)	80 (24 Hours Average)	80 (24 Hours Average)	400 (24 Hours Average)	180 (1 Hour Average)

Sl No	Date of Sampling	Sample ID	Parameters					
			Lead (Pb)	Arsenic (As)	Nickel (Ni)	*Benzene (C <sub>6</sub> H <sub>6</sub> )	*Carbon Monoxide (CO)	*Benzo(a)pyrene (BaP) - Particulate Phase only
Units			µg/m <sup>3</sup>	ng/m <sup>3</sup>	ng/m <sup>3</sup>	µg/m <sup>3</sup>	mg/m <sup>3</sup>	ng/m <sup>3</sup>
Method of Analysis			IS 5182 (Part - 22) 2004, RA 2014	CPL/SOP/HAAs, Issue No: 02, dtd: 23.10.2017	CPL/SOP/Ni, Issue No: 02, dtd: 23.10.2017	IS 5182 (Part - 11) 2006, RA 2017	Electro-chemical Sensor	IS 5182 (Part - 12)
1	23.03.2021 - 24.03.2021	CPL/AAQ/MAR-21/496	< 0.4	< 0.1	< 12.0	< 0.5	< 0.1	< 0.1
National Ambient Air Quality Standards, CPCB Notification New Delhi, 18 <sup>th</sup> November, 2009 for Industrial, Residential, Rural & Other Area			1.0 (24 Hours Average)	06 (Annual Average)	20 (Annual Average)	05 (Annual Average)	4 (1 Hour Average)	01 (Annual Average)

\*Parameters are not under NABL scope.

P. Saxe  
Test Done By



P. D. One  
Verified By

  
 Authorized Signatory  
 Subhanga Praharaj  
 Managing Director/QM

\*\*\*END OF TEST REPORT\*\*\*  
Page 1 of 1

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Branch Office & Laboratory:

D/124, KOELNAGAR, ROURKELA - 769014, Dist: SUNDARGARH, ODISHA

Tel: Fax: 9661 - 2475746, email: cleenviron@gmail.com



# Cleenviron Private Limited

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



Certificate No: TC - 6819

## TEST REPORT FOR AMBIENT AIR QUALITY MONITORING

FORMAT NO: CPL/FM57

ULR - TC68162100000579P  
REPORT NO: CPL/R/AAQ/MAR-21/31

REPORT ISSUE DATE: 27.03.2021

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**  
 Location of Monitoring : **WORKSHOP BUILDING LINE - 2**  
 Monitoring Station Code : **A1**  
 Sample Received on : **23.03.2021**  
 Test Carried out on : **23.03.2021 - 24.03.2021**

Environmental Conditions During Monitoring	:	Min Temp.:16.2°C	Max Temp.:36.5°C	Min RH:13%	Max RH:91%
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Sl No	Date of Sampling	Sample ID	Parameters					
			PM <sub>2.5</sub>	PM <sub>10</sub>	SO <sub>2</sub>	NO <sub>2</sub>	NH <sub>3</sub>	O <sub>3</sub>
Units			µg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>
Method of Analysis			CPL/SOP/01/PM2.5, Issue No: 02, dtd: 23.10.2017	EN 12341, 1998 Low Volume Sampler	IS:5182 (Part - 2) 2011, RA 2017	IS: 5182 (Part - 6) 2006, RA 2017	CPL/SOP/01/NH3, Issue No: 02, dtd: 23.10.2017	IS:5182 (Part - 9) 1974, RA 2014
1.	22.03.2021 - 23.03.2021	CPL/AAQ/MAR-21/397	21	60	< 3	08	< 20	< 19.6
National Ambient Air Quality Standards, CPCB Notification New Delhi, 18 <sup>th</sup> November, 2009 for Industrial, Residential, Rural & Other Area			60 (24 Hours Average)	100 (24 Hours Average)	80 (24 Hours Average)	80 (24 Hours Average)	400 (24 Hours Average)	180 (1 Hour Average)

Sl No	Date of Sampling	Sample ID	Parameters					
			Lead (Pb)	Arsenic (As)	Nickel (Ni)	*Benzene (C <sub>6</sub> H <sub>6</sub> )	*Carbon Monoxide (CO)	*Benzo(a)pyrene (BaP) - Particulate Phase only
Units			µg/m <sup>3</sup>	ng/m <sup>3</sup>	ng/m <sup>3</sup>	µg/m <sup>3</sup>	mg/m <sup>3</sup>	ng/m <sup>3</sup>
Method of Analysis			IS 5182 (Part - 22) 2004, RA 2014	CPL/SOP/01/As, Issue No: 02, dtd: 23.10.2017	CPL/SOP/01/Ni, Issue No: 02, dtd: 23.10.2017	IS 5182 (Part - 11): 2006, RA 2017	Electro-chemical Sensor	IS 5182 (Part - 12)
1.	22.03.2021 - 23.03.2021	CPL/AAQ/MAR-21/397	< 0.4	< 0.1	< 12.0	< 0.5	< 0.1	< 0.1
National Ambient Air Quality Standards, CPCB Notification New Delhi, 18 <sup>th</sup> November, 2009 for Industrial, Residential, Rural & Other Area			1.0 (24 Hours Average)	06 (Annual Average)	20 (Annual Average)	05 (Annual Average)	4 (1 Hour Average)	01 (Annual Average)

\*Parameters are not under NABL scope.

P. Laha  
Test Done By



P. O. Jena  
Verified By

*Subhanga Praharaj*  
Authorized Signatory  
Subhanga Praharaj  
Managing Director/QM

\*\*\*\*\*END OF TEST REPORT\*\*\*\*\*  
Page 1 of 1

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



# Cleenviron Private Limited

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



Certificate No: TC - 6818

## TEST REPORT FOR AMBIENT AIR QUALITY MONITORING

FORMAT NO: CPL/FMS7

ULR - TC681621000000586P  
REPORT NO: CPL/R/AAQ/MAR-21/38

REPORT ISSUE DATE: 27.03.2021

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**  
 Location of Monitoring : **NEAR WATER TREATMENT PLANT**  
 Monitoring Station Code : **A8**  
 Sample Received on : **23.03.2021**  
 Test Carried out on : **23.03.2021 - 24.03.2021**

Environmental Conditions During Monitoring : Min Temp.:16.2°C Max Temp.:36.5°C Min RH:13% Max RH:91%

Sl No	Date of Sampling	Sample ID	Parameters					
			PM <sub>2.5</sub>	PM <sub>10</sub>	SO <sub>2</sub>	NO <sub>2</sub>	NH <sub>3</sub>	O <sub>3</sub>
Units			µg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>
Method of Analysis			CPL/SOP/1/PM2.5, Issue No: 02, dt: 23.10.2017	EN 12341, 1998 Low Volume Sampler	IS:5182 (Part - 2) 2001, RA 2017	IS: 5182 (Part - 6) 2006, RA 2017	CPL/SOP/1/NH <sub>3</sub> , Issue No: 02, dt: 23.10.2017	IS:5182 (Part - 9) 1974, RA 2014
1.	22.03.2021 - 23.03.2021	CPL/AAQ/MAR-21/398	22	65	03	09	21	< 19.6
National Ambient Air Quality Standards, CPCB Notification New Delhi, 19 <sup>th</sup> November, 2009 for Industrial, Residential, Rural & Other Area			60 (24 Hours Average)	100 (24 Hours Average)	80 (24 Hours Average)	80 (24 Hours Average)	400 (24 Hours Average)	180 (1 Hour Average)

Sl No	Date of Sampling	Sample ID	Parameters					
			Lead (Pb)	Arsenic (As)	Nickel (Ni)	*Benzene (C <sub>6</sub> H <sub>6</sub> )	*Carbon Monoxide (CO)	*Benzo(a)pyrene (BaP) - Particulate Phase only
Units			µg/m <sup>3</sup>	ng/m <sup>3</sup>	ng/m <sup>3</sup>	µg/m <sup>3</sup>	mg/m <sup>3</sup>	ng/m <sup>3</sup>
Method of Analysis			IS 3182 (Part - 22): 2004, RA 2014	CPL/SOP/1/As, Issue No: 02, dt: 23.10.2017	CPL/SOP/1/Ni, Issue No: 02, dt: 23.10.2017	IS 5182 (Part - 11): 2006, RA 2017	Electro-chemical Sensor	IS 5182 (Part - 12)
1.	22.03.2021 - 23.03.2021	CPL/AAQ/MAR-21/398	< 0.4	< 0.1	< 12.0	< 0.5	< 0.1	< 0.1
National Ambient Air Quality Standards, CPCB Notification New Delhi, 19 <sup>th</sup> November, 2009 for Industrial, Residential, Rural & Other Area			1.0 (24 Hours Average)	06 (Annual Average)	20 (Annual Average)	05 (Annual Average)	4 (1 Hour Average)	01 (Annual Average)

\*Parameters are not under NABL scope.

P. Sarsani  
Test Done By



P. O. Sarsani  
Verified By

Authorized Signatory  
Subhanga Praharaj  
Managing Director/QM

\*\*\*\*\*END OF TEST REPORT\*\*\*\*\*  
Page 1 of 1

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



# Cleenviron Private Limited

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



Certificate No: TC - 6015

## TEST REPORT FOR STACK EMISSION MONITORING

FORMAT NO: CPL/MSI

ULR - TC68162100000589F  
REPORT NO: CPL/R/SE/MAR-21/19

REPORT ISSUE DATE: 27.03.2021

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/MAR-21/26**  
 Name of Stack Monitored : **KILN & VRM LINE - 1**  
 Stack Connected To : **KILN VRM**  
 Shape of Stack : **Circular**  
 Date of Sampling : **23.03.2021**  
 Time of Sampling : **12 : 30 Hrs**  
 Method of Sampling : **IS 11255 (Part - 1), (Part - 2) : 1985, RA 2014 & (Part - 7): 2005, RA 2017**  
 Sample Received on : **24.03.2021**  
 Date of Test : **25.03.2021**

Ambient Temperature in °C : 32  
 Stack Temperature in °C : 150  
 Average Stack Gas Velocity in m/sec : 18.6  
 Iso-kinetic Flow Rate in LPM : 25  
 Duration of Sampling in minute : 40

	<u>Results Obtained</u>	<u>Permissible Limits</u>
Particulate Matter Concentration	: 06 mg/Nm <sup>3</sup>	30 mg/Nm <sup>3</sup>
Sulphur Dioxide as SO <sub>2</sub>	: 28.01 mg/Nm <sup>3</sup>	100 mg/Nm <sup>3</sup>
Nitrogen Dioxide as NO <sub>2</sub>	: 557.6 mg/Nm <sup>3</sup>	800 mg/Nm <sup>3</sup>

*P. Sabeni*  
Test Done By

*P. Das*  
Verified 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.

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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.



Certificate No: TC - 6916

## TEST REPORT FOR STACK EMISSION MONITORING

FORMAT NO: CPL/FM/31

ULR - TC681621000000588F  
REPORT NO: CPL/R/SE/MAR-21/18

REPORT ISSUE DATE: 27.03.2021

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/MAR-21/27**  
 Name of Stack Monitored : Coal Mill B/F, Line - 1  
 Stack Connected To : Coal Mill Bag Filter  
 Shape of Stack : Circular  
 Date of Sampling : 23.03.2021  
 Time of Sampling : 15 : 00 Hrs  
 Method of Sampling : IS 11255 (Part - 1): 1985, RA 2014  
 Sample Received on : 24.03.2021  
 Date of Test : 25.03.2021

Ambient Temperature in °C : 42  
 Stack Temperature in °C : 95  
 Average Stack Gas Velocity in m/sec : 6.49  
 Iso-kinetic Flow Rate in LPM : 22  
 Duration of Sampling in minute : 45

	<u>Results Obtained</u>	<u>Permissible Limits</u>
Particulate Matter Concentration	: 10 mg/Nm <sup>3</sup>	30 mg/Nm <sup>3</sup>

*P. Basani*  
Test Done By

*P. Das*  
Verified By



*Subhanga Praharaj*  
Authorized Signatory  
Subhanga Praharaj  
Managing Director/QM

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

Page 1 of 1

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DD18, KOELNAGAR, ROURKELA - 769014, Dist. SUNDARGARH, ODISHA

Branch Office & Laboratory:

DP24, KOELNAGAR, ROURKELA - 769014, Dist. SUNDARGARH, ODISHA

Tele Fax: 6651 - 2475746, email: cleenviron@gmail.com



# Cleenviron Private Limited

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



Certificate No: TC - 5811

## TEST REPORT FOR STACK EMISSION MONITORING

FORMAT NO: CPL/SEM

ULR - TC681621000000587F  
REPORT NO: CPLR/SE/MAR-21/17

REPORT ISSUE DATE: 27.03.2021

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/MAR-21/28**  
 Name of Stack Monitored : Cooler ESP, Line - 1  
 Stack Connected To : Cooler, Line - 1  
 Shape of Stack : Circular  
 Date of Sampling : 23.03.2021  
 Time of Sampling : 16 : 07 Hrs  
 Method of Sampling : IS 11255 (Part - 1) : 1985, RA 2014  
 Sample Received on : 24.03.2021  
 Date of Test : 25.03.2021

Ambient Temperature in °C : 41  
 Stack Temperature in °C : 250  
 Average Stack Gas Velocity in m/sec : 7.00  
 Iso-kinetic Flow Rate in LPM : 17  
 Duration of Sampling in minute : 58

	<u>Results Obtained</u>	<u>Permissible Limits</u>
Particulate Matter Concentration	: 25 mg/Nm <sup>3</sup>	30 mg/Nm <sup>3</sup>

*P. Sareni*  
Test Done By

*P. O. S.*  
Verified By



*Subhanga Praharaj*  
Authorized Signatory  
Subhanga Praharaj  
Managing Director/QM

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

Page 1 of 1

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Registered Office:

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Branch Office & Laboratory:

DN34, KOELNAGAR, ROURKELA - 769014, Dist: SUNDARGARH, ODISHA

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



# Cleenviron Private Limited

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



Certificate No: TC - 6818

## TEST REPORT FOR STACK EMISSION MONITORING

ULR - TC681621000000590F  
REPORT NO: CPLR/SE/MAR-21/20

FORMAT NO: CPL/FM/3

REPORT ISSUE DATE: 27.03.2021

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/MAR-21/34**  
 Name of Stack Monitored : CVRM - 1, Line - 1  
 Stack Connected To : CVRM - 1 Bag filter  
 Shape of Stack : Circular  
 Date of Sampling : 24.03.2021  
 Time of Sampling : 12 : 10 Hrs  
 Method of Sampling : IS 11255 (Part - 1): 1985, RA 2014  
 Sample Received on : 25.03.2021  
 Date of Test : 26.03.2021

Ambient Temperature in °C : 36  
 Stack Temperature in °C : 92  
 Average Stack Gas Velocity in m/sec : 7.78  
 Iso-kinetic Flow Rate in LPM : 27  
 Duration of Sampling in minute : 37

	<u>Results Obtained</u>	<u>Permissible Limits</u>
Particulate Matter Concentration	: 10 mg/Nm <sup>3</sup>	30 mg/Nm <sup>3</sup>

*P. Basant*  
Test Done By

*P. O. ...*  
Verified By



*S. Subhanga*  
Authorized Signatory  
Subhanga Praharaj  
Managing Director/QM

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

Page 1 of 1

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

Tele Fax: 0661 - 2475748, email: cleenviron@gmail.com



# Cleenviron Private Limited

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



Certificate No. TC - 8813

## TEST REPORT FOR STACK EMISSION MONITORING

FORMAT NO: CPL/FMSR

ULR - TC681621000000591F  
REPORT NO: CPL/R/SE/MAR-21/21

REPORT ISSUE DATE: 27.03.2021

SAMPLE DRAWN BY CLEENVIIRON 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/MAR-21/29**  
 Name of Stack Monitored : CVRM - 2, Line - 1  
 Stack Connected To : CVRM - 2 Bag filter  
 Shape of Stack : Circular  
 Date of Sampling : 24.03.2021  
 Time of Sampling : 11 : 20 Hrs  
 Method of Sampling : IS 11255 (Part - 1): 1985, RA 2014  
 Sample Received on : 25.03.2021  
 Date of Test : 26.03.2021

Ambient Temperature in °C : 35  
 Stack Temperature in °C : 89  
 Average Stack Gas Velocity in m/sec : 7.05  
 Iso-kinetic Flow Rate in LPM : 25  
 Duration of Sampling in minute : 40

	<u>Results Obtained</u>	<u>Permissible Limits</u>
<b>Particulate Matter Concentration</b>	<b>: 16 mg/Nm<sup>3</sup></b>	<b>30 mg/Nm<sup>3</sup></b>

*P. Sabeni*  
Test Done By

*P. O. S.*  
Verified By



*Subhanga Praharaj*  
Authorized Signatory  
Subhanga Praharaj  
Managing Director/QM

====END OF TEST REPORT====

Page 1 of 1

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Branch Office & Laboratory:

D/124, KOELNAGAR, ROURKELA - 769014, Dist: SUNDARGARH, ODISHA

Tele Fax: 0661 - 2473746, email: cleenviron@gmail.com



# Cleenviron Private Limited

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



Certificate No. TC - 6819

## TEST REPORT FOR STACK EMISSION MONITORING

FORMAT NO: CPL/FMSI

ULR - TC68162100000592F  
REPORT NO: CPL/R/SE/MAR-21/22

REPORT ISSUE DATE: 27.03.2021

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/MAR-21/30**  
 Name of Stack Monitored : CVRM - 3, Line - 1  
 Stack Connected To : CVRM - 3 Bag filter  
 Shape of Stack : Circular  
 Date of Sampling : 24.03.2021  
 Time of Sampling : 10 : 03 Hrs  
 Method of Sampling : IS 11255 (Part - 1): 1985, RA 2014  
 Sample Received on : 25.03.2021  
 Date of Test : 26.03.2021

Ambient Temperature in °C : 32  
 Stack Temperature in °C : 99  
 Average Stack Gas Velocity in m/sec : 5.29  
 Iso-kinetic Flow Rate in LPM : 18  
 Duration of Sampling in minute : 56

	<u>Results Obtained</u>	<u>Permissible Limits</u>
Particulate Matter Concentration	: 05 mg/Nm <sup>3</sup>	30 mg/Nm <sup>3</sup>

*P. Sasenu*  
Test Done By

*P. O. S.*  
Verified By



*S. Subhanga*  
Authorized Signatory  
Subhanga Praharaj  
Managing Director/QM

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

Page 1 of 1

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Branch Office & Laboratory:

D/124, KOELNAGAR, ROURKELA - 769014, Dist: SUNDARGARH, ODISHA

Tels Fax: 9661 - 2475748, email: cleenviron@gmail.com



# Cleenviron Private Limited

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



Certificate No. TC - 8818

## TEST REPORT FOR STACK EMISSION MONITORING

FORMAT NO: CPL/FMS

ULR - TC681621000000595F  
REPORT NO: CPL/R/SE/MAR-21/25

REPORT ISSUE DATE: 27.03.2021

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/MAR-21/25**  
 Name of Stack Monitored : KILN & VRM RABH, LINE - 2  
 Stack Connected To : KILN VRM  
 Shape of Stack : Circular  
 Date of Sampling : 22.03.2021  
 Time of Sampling : 12 : 25 Hrs  
 Method of Sampling : IS 11255 (Part - 1), (Part - 2) : 1985, RA 2014 & (Part - 7) : 2005, RA 2017  
 Sample Received on : 23.03.2021  
 Date of Test : 24.03.2021

Ambient Temperature in °C : 32  
 Stack Temperature in °C : 108  
 Average Stack Gas Velocity in m/sec : 9.82  
 Iso-kinetic Flow Rate in LPM : 33  
 Duration of Sampling in minute : 30

	<u>Results Obtained</u>	<u>Permissible Limits</u>
Particulate Matter Concentration	: 06 mg/Nm <sup>3</sup>	30 mg/Nm <sup>3</sup>
Sulphur Dioxide as SO <sub>2</sub>	: 34.59 mg/Nm <sup>3</sup>	100 mg/Nm <sup>3</sup>
Nitrogen Dioxide as NO <sub>2</sub>	: 420.5 mg/Nm <sup>3</sup>	800 mg/Nm <sup>3</sup>

*P. Sabena*  
Test Done By

*P. Sabena*  
Verified By



*Subhanga Praharaj*  
Authorized Signatory  
Subhanga Praharaj  
Managing Director/QM

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

Page 1 of 1

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D/124, KOELNAGAR, ROURKELA - 769014, Dist: SUNDARGARH, ODISHA

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



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Certificate No: TC - 2818

## TEST REPORT FOR STACK EMISSION MONITORING

FORMAT NO: CPL/FMSI

ULR - TC681621000000594F  
REPORT NO: CPL/R/SE/MAR-21/24

REPORT ISSUE DATE: 27.03.2021

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/MAR-21/22**  
 Name of Stack Monitored : Coal Mill B/F, Line - 2  
 Stack Connected To : Coal Mill Bag Filter  
 Shape of Stack : Circular  
 Date of Sampling : 22.03.2021  
 Time of Sampling : 15 : 14 Hrs  
 Method of Sampling : IS 11255 (Part - 1): 1985, RA 2014  
 Sample Received on : 23.03.2021  
 Date of Test : 24.03.2021

Ambient Temperature in °C : 40  
 Stack Temperature in °C : 71  
 Average Stack Gas Velocity in m/sec : 5.49  
 Iso-kinetic Flow Rate in LPM : 20  
 Duration of Sampling in minute : 50

	<u>Results Obtained</u>	<u>Permissible Limits</u>
Particulate Matter Concentration	: 11 mg/Nm <sup>3</sup>	30 mg/Nm <sup>3</sup>

*P. Dasari*  
Test Done By

*P. Dasari*  
Verified By



*Subhanga Praharaj*  
Authorized Signatory  
Subhanga Praharaj  
Managing Director/QM

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

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D/124, KOELNAGAR, ROURKELA - 769014, Dist: SUNDARGARH, ODISHA

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



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Certificate No. TC - 6818

## TEST REPORT FOR STACK EMISSION MONITORING

FORMAT NO: CPL/MSR

ULR - TC681621000000593F  
REPORT NO: CPL/R/SE/MAR-21/23

REPORT ISSUE DATE: 27.03.2021

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/MAR-21/23**  
 Name of Stack Monitored : Cooler ESP, Line - 2  
 Stack Connected To : Cooler, Line - 2  
 Shape of Stack : Circular  
 Date of Sampling : 22.03.2021  
 Time of Sampling : 15 : 00 Hrs  
 Method of Sampling : IS 11255 (Part - 1): 1985, RA 2014  
 Sample Received on : 23.03.2021  
 Date of Test : 24.03.2021

Ambient Temperature in °C : 42  
 Stack Temperature in °C : 135  
 Average Stack Gas Velocity in m/sec : 8.79  
 Iso-kinetic Flow Rate in LPM : 27  
 Duration of Sampling in minute : 37

	<u>Results Obtained</u>	<u>Permissible Limits</u>
Particulate Matter Concentration	: 15 mg/Nm <sup>3</sup>	30 mg/Nm <sup>3</sup>

*P. Sahoo*  
Test Done By

*P. Sahoo*  
Verified By



*S. Pradhan*  
Authorized Signatory  
Subhanga Praharaj  
Managing Director/QM

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

Page 1 of 1

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





# Cleenviron Private Limited

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



Certificate No. TC - 6616

## TEST REPORT FOR STACK EMISSION MONITORING

FORMAT NO: CPL/PMI

ULR - TC681621000000596P  
REPORT NO: CPL/R/SE/MAR-21/26

REPORT ISSUE DATE: 27.03.2021

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/MAR-21/24**  
 Name of Stack Monitored : Power Plant ESP Outlet  
 Stack Connected To : Boiler - 1 & 2  
 Shape of Stack : Circular  
 Date of Sampling : 22.03.2021  
 Time of Sampling : 17 : 13 Hrs  
 Method of Sampling : IS 11255 (Part - 1), (Part - 2) : 1985, RA 2014 & (Part - 7): 2005, RA 2017  
 Sample Received on : 23.03.2021  
 Date of Test : 24.03.2021

Ambient Temperature in °C : 38  
 Stack Temperature in °C : 128  
 Average Stack Gas Velocity in m/sec : 5.96  
 Iso-kinetic Flow Rate in LPM : 19  
 Duration of Sampling in minute : 53

	<u>Results Obtained</u>	<u>Permissible Limits</u>
Particulate Matter Concentration	: 27 mg/Nm <sup>3</sup>	50 mg/Nm <sup>3</sup>
Sulphur Dioxide as SO <sub>2</sub>	: 524.45 mg/Nm <sup>3</sup>	600 mg/Nm <sup>3</sup>
Nitrogen Dioxide as NO <sub>2</sub>	: 243 mg/Nm <sup>3</sup>	300 mg/Nm <sup>3</sup>
*Mercury as Hg	: < 0.02 mg/Nm <sup>3</sup>	0.03 mg/Nm <sup>3</sup>

\*Parameter is not under NABL scope.

*P. Saini*  
Test Done By



*Subhanga Praharaj*  
Authorized Signatory  
Subhanga Praharaj  
Managing Director/QM

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

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Branch Office & Laboratory:  
D/124, KOELNAGAR, ROURKELA - 769014, Dist: SUNDARGARH, ODISHA  
Tele Fax: 0661 - 2675746, email: cleenviron@gmail.com

**Vimta Labs Limited**

Registered Office  
142, IDA Phase II, Cherlapally  
Hyderabad-500 051, India  
T : +91 40 2726 4141  
F : +91 40 2726 3657



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**ISSUED TO:**

M/s. DALMIA CEMENT (BHARAT) LIMITED.,  
RGP CEMENT WORKS  
PO. RAJGANGPUR  
DIST: SUNDARGARH  
ODISHA-770017

Report Number : VLI/VLS/20/08991/001  
Issued Date : 2020-12-07  
P.O. Number : 4548008049/106  
P.O. Date : 23.10.2020

Page 1 of 3

SAMPLE PARTICULARS : SOURCE EMISSION MONITORING OF VRM BAG HOUSE STACK-1  
Co Processing AFR Material : AFR + Pet coke

Sample Registration Date : 2020-11-23 Sampling Date : 2020-11-18  
Analysis Starting Date : 2020-11-23 Analysis Completion Date : 2020-12-06  
Sample Collected by Vimta Labs Ltd.

**TEST REPORT**

Sr. No	Parameters	UoM	Method of Testing	Results	Limits as per MoEF & CC Notification GSR 497(E)
1	Dia of Stack	m	--	2.8	--
2	Temperature of Flue gas	°C	--	153	--
3	Velocity	m/Sec	USEPA method -03	30.0	--
4	Sulphur Dioxide as SO <sub>2</sub>	mg/Nm <sup>3</sup>	USEPA method -06	11.2	<100
5	Oxides of Nitrogen NO <sub>x</sub> as NO <sub>2</sub>	mg/Nm <sup>3</sup>	USEPA method -07	524.3	<800
6	Carbon Monoxide as CO	mg/Nm <sup>3</sup>	Electro Chemical	87.3	<100
7	Particulate Matter as PM	mg/Nm <sup>3</sup>	USEPA method -5	16.8	<30.0
8	Hydrogen Fluoride as HF	mg/Nm <sup>3</sup>	USEPA method -13	0.41	<1.0
9	Hydrogen Chloride as HCl	mg/Nm <sup>3</sup>	USEPA method -26	3.1	<10
10	Total Organic Carbon	mg/Nm <sup>3</sup>	USEPA method -40 & MM5(10)	4.3	<10

All the Values are represented at 10% O<sub>2</sub>

Dr. SubbaReddy Mallampati  
Group Leader-Environment

**Vimta Labs Limited**

Registered Office  
142, IDA Phase II, Cherlapally  
Hyderabad-500 051, Telangana, India  
T : +91 40 2726 4141  
F : +91 40 2726 3657



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**ISSUED TO:**

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RGP CEMENT WORKS  
PO. RAJGANGPUR  
DIST: SUNDARGARH  
ODISHA-770017

Report Number : VLL/VLS/20/08991/001  
Issued Date : 2020-12-07  
P.O. Number : 4548008049/106  
P.O. Date : 23.10.2020

Page 2 of 3

SAMPLE PARTICULARS : SOURCE EMISSION MONITORING OF VRM BAG HOUSE STACK-1  
Co Processing AFR Material : AFR + Pet coke

Sample Registration Date : 2020-11-23 Sampling Date : 2020-11-18  
Analysis Starting Date : 2020-11-23 Analysis Completion Date : 2020-12-06  
Test Required : Hg & its compounds, Cd + TI its compounds, Sb+ As+ Pb+ Co+ Cr+ Cu+ Mn+ Ni+ V+ Their compounds

Sample Collected by Vimta Labs Ltd.

**TEST REPORT**

Sr. No	Parameters	UoM	Method of Testing	Results	Limits as per MoEF & CC Notification GSR 497(E)
1	Mercury as Hg + their Compound	mg/Nm <sup>3</sup>	USEPA method -29	<0.001	<0.05
2	Cadmium + Thallium ( Cd + TI ) + their Compound			0.011	<0.05
3	Chromium as Cr + their Compound			0.018	(Sb+ As+ Pb+ Co+ Cr+ Cu+ Mn+ Ni+ V+ Their compounds) < 0.5
	Manganese as Mn + their Compound			0.013	
	Arsenic as As + their Compound			0.009	
	Antimony as Sb + their Compound			0.011	
	Lead as Pb + their Compound			0.015	
	Cobalt as Co + their Compound			0.018	
	Copper as Cu + their Compound			0.015	
	Nickel as Ni + their Compound			0.008	
	Vanadium as V + their Compound			0.013	
	Sb+ As+ Pb+ Co+ Cr+ Cu+ Mn+ Ni+ V+ Their compounds			0.120	

Instruments used: GC-FID, ICP-MS, Cold Vapor AAS and GC-MS  
All the values are represented at 10% O<sub>2</sub>

Dr. SubbaReddy Mallampati  
Group Leader-Environment

**Vimta Labs Limited**

Registered Office  
142, IDA Phase II, Chertapally  
Hyderabad-500 051, Telangana, India  
T: +91 40 2726 4141  
F: +91 40 2726 3657

**ISSUED TO:**

M/s. DALMIA CEMENT (BHARAT) LIMITED,  
RGP CEMENT WORKS  
PO. RAJGANGPUR  
DIST: SUNDARGARH  
ODISHA-770017

Report Number : VLL/VLS/20/08991/001  
Issued Date : 2020-12-07  
P.O. Number : 4548008049/106  
P.O. Date : 23.10.2020

Page 3 of 3

**SAMPLE PARTICULARS** : SOURCE EMISSION MONITORING OF VRM BAG HOUSE STACK-1  
**Co Processing AFR Material** : AFR + Pet coke

Sample Registration Date	: 2020-11-23	Sampling Date	: 2020-11-18
Analysis Starting Date	: 2020-11-23	Analysis Completion Date	: 2020-12-06
Test Required	: Dioxins and Furans (PCDD & PCDF)		
Sample Collected by Vimta Labs Ltd.			

**TEST REPORT**

Sr.No	Congeners of Dioxins & Furans	Unit	Results
1	2,3,7,8-TCDF	ng TEQ/Nm <sup>3</sup>	0.0018
2	1,2,3,7,8-PeCDF		0.0007
3	2,3,4,7,8-PeCDF		0.0032
4	1,2,3,4,7,8-HxCDF		0.0010
5	1,2,3,6,7,8-HxCDF		0.0006
6	2,3,4,6,7,8-HxCDF		0.0009
7	1,2,3,7,8,9-HxCDF		0.0018
8	1,2,3,4,6,7,8-HpCDF		0.0034
9	1,2,3,4,7,8,9-HpCDF		0.0027
10	OCDF		0.0000
11	2,3,7,8-TCDD		0.0029
12	1,2,3,7,8-PeCDD		0.0026
13	1,2,3,4,7,8-HxCDD		0.0004
14	1,2,3,6,7,8-HxCDD		0.0013
15	1,2,3,7,8,9-HxCDD		0.0004
16	1,2,3,4,6,7,8-HpCDD		0.0000
17	OCDD		0.0021
<b>Total Dioxin &amp; Furans</b>		ng TEQ/Nm <sup>3</sup>	<b>0.0257</b>
<b>Total Dioxin &amp; Furans</b>		ng TEQ /Nm <sup>3</sup> Corrected to 10% O <sub>2</sub>	<b>0.0262</b>
<b>Limits as per MoEF &amp; CC Notification GSR 497(E)</b>			<b>&lt;0.1</b>

Method of Testing: As per USEPA 23 A & 8290

Remarks: All the values are corrected to 10% O<sub>2</sub> as per CPCB Guidelines.

Instruments used: Auto spec Premier (HRGC/HRMS). Detection Limit: 0.01ng



**Dr. SubbaReddy Mallampati**  
Group Leader-Environment

**Vimta Labs Limited**

Registered Office  
142, IDA Phase II, Cherlapally  
Hyderabad-500 051, Telangana, India  
T : +91 40 2726 4141  
F : +91 40 2726 3857

**ISSUED TO:**

**M/s. DALMIA CEMENT (BHARAT) LIMITED.,  
RGP CEMENT WORKS  
PO. RAJGANGPUR  
DIST: SUNDARGARH  
ODISHA-770017**

Report Number : VLL/VLS/20/08991/002  
Issued Date : 2020-12-07  
P.O. Number : 4548008049/106  
P.O. Date : 23.10.2020

Page 1 of 3

**SAMPLE PARTICULARS : SOURCE EMISSION MONITORING FOR RABH STACK LINE-2**  
**Co Processing AFR Material : AFR + Pet Coke**

Sample Registration Date	: 2020-11-23	Sampling Date	: 2020-11-19
Analysis Starting Date	: 2020-11-23	Analysis Completion Date	: 2020-12-06
Sample Collected by Vimta Labs Ltd.			

**TEST REPORT**

Sl. No	Parameters	UoM	Method of Testing	Results	Limits as per MoEF & CC Notification GSR 497/E)
1	Dia of Stack	m	--	4.9	--
2	Temperature of Flue gas	°C	--	135	--
3	Velocity	m/Sec	USEPA method -03	9.6	--
4	Sulphur Dioxide as SO <sub>2</sub>	mg/Nm <sup>3</sup>	USEPA method -06	18	<100
5	Oxides of Nitrogen NOx as NO <sub>2</sub>	mg/Nm <sup>3</sup>	USEPA method -07	432	< 800
6	Carbon Monoxide as CO	mg/Nm <sup>3</sup>	Electro Chemical	63.8	<100
7	Particulate Matter as PM	mg/Nm <sup>3</sup>	USEPA method -5	19.5	<30.0
8	Hydrogen Fluoride as HF	mg/Nm <sup>3</sup>	USEPA method -13	0.49	<1.0
9	Hydrogen Chloride as HCl	mg/Nm <sup>3</sup>	USEPA method -26	4.1	<10
10	Total Organic Carbon	mg/Nm <sup>3</sup>	USEPA method -40 & MM5 (10)	5.3	<10

All the Values are represented at 10% O<sub>2</sub>



**Dr. SubbaReddy Mallampati**  
Group Leader-Environment

**ISSUED TO:**  
**M/s. DALMIA CEMENT (BHARAT) LIMITED.,**  
**RGP CEMENT WORKS**  
**PO. RAJGANGPUR**  
**DIST: SUNDARGARH**  
**ODISHA-770017**

Report Number : VLL/VLS/20/08991/002  
Issued Date : 2020-12-07  
P.O. Number : 4548008049/106  
P.O. Date : 23.10.2020

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**SAMPLE PARTICULARS** : SOURCE EMISSION MONITORING FOR AFR STACK ATTACHED TO KILN-2  
**Co Processing AFR Material** : SPENT SOLVENT AND DISTILLATION RESIDUE

Sample Registration Date : 2020-11-23 Sampling Date : 2020-11-19  
Analysis Starting Date : 2020-11-23 Analysis Completion Date : 2020-12-06  
Test Required : Hg & its compounds, Cd + Tl its compounds, Sb+ As+ Pb+ Co+ Cr+ Cu+ Mn+ Ni+ V+ Their compounds

Sample Collected by Vimta Labs Ltd.

**TEST REPORT**

Sr. No	Parameters	DoM	Method of Testing	Results	Limits as per MoEF & CC Notification GSR 497(E)
1	Mercury as Hg + their Compound	mg/Nm <sup>3</sup>	USEPA method -29	<0.001	<0.05
2	Cadmium + Thallium ( Cd + Tl ) + their Compound			<0.001	<0.05
3	Chromium as Cr + their Compound			0.014	(Sb+ As+ Pb+ Co+ Cr+ Cu+ Mn+ Ni+ V+ Their compounds) < 0.5
	Manganese as Mn + their Compound			0.026	
	Arsenic as As + their Compound			0.021	
	Antimony as Sb + their Compound			0.014	
	Lead as Pb + their Compound			0.013	
	Cobalt as Co + their Compound			0.019	
	Copper as Cu + their Compound			0.008	
	Nickel as Ni + their Compound			0.011	
	Vanadium as V + their Compound			0.015	
	Sb+ As+ Pb+ Co+ Cr+ Cu+ Mn+ Ni+ V+ Their compounds			0.141	

Instruments used: GC-FID, ICP-MS, Cold Vapor AAS and GC-MS  
All the values are represented at 10% O<sub>2</sub>



**Dr. SubbaKeddy Mallampati**  
Group Leader-Environment

**Vimta Labs Limited**

Registered Office  
142, IDA Phase II, Cherlapally  
Hyderabad-500 051, Telangana, India  
T : +91 40 2726 4141  
F : +91 40 2726 3657

**ISSUED TO:**

M/s. DALMIA CEMENT (BHARAT) LIMITED.,  
RGP CEMENT WORKS  
PO. RAJGANGPUR  
DIST: SUNDARGARH  
ODISHA-770017

Report Number : VLL/VLS/20/08991/002  
Issued Date : 2020-12-07  
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<b>SAMPLE PARTICULARS</b>	SOURCE EMISSION MONITORING FOR AFR STACK ATTACHED TO KILN-2		
Co Processing AFR Material	SPENT SOLVENT AND DISTILLATION RESIDUE		
Sample Registration Date	2020-11-23	Sampling Date	2020-11-19
Analysis Starting Date	2020-11-23	Analysis Completion Date	2020-12-06
Test Required	Dioxins and Furans (PCDD & PCDF)		
Sample Collected by Vimta Labs Ltd.			

**TEST REPORT**

Sr.No	Congeners of Dioxins & Furans	DoM	Results
1	2,3,7,8-TCDF	ng TEQ/Nm <sup>3</sup>	0.0030
2	1,2,3,7,8-PeCDF		0.0021
3	2,3,4,7,8-PeCDF		0.0009
4	1,2,3,4,7,8-HxCDF		0.0022
5	1,2,3,6,7,8-HxCDF		0.0019
6	2,3,4,6,7,8-HxCDF		0.0009
7	1,2,3,7,8,9-HxCDF		0.0008
8	1,2,3,4,6,7,8-HpCDF		0.0022
9	1,2,3,4,7,8,9-HpCDF		0.0018
10	OCDF		0.0008
11	2,3,7,8-TCDD		0.0025
12	1,2,3,7,8-PeCDD		0.0042
13	1,2,3,4,7,8-HxCDD		0.0006
14	1,2,3,6,7,8-HxCDD		0.0008
15	1,2,3,7,8,9-HxCDD		0.0006
16	1,2,3,4,6,7,8-HpCDD		0.0022
17	OCDD		0.0009
<b>Total Dioxin &amp; Furans</b>		ng TEQ/Nm <sup>3</sup>	<b>0.0284</b>
<b>Total Dioxin &amp; Furans</b>		ng TEQ /Nm <sup>3</sup> Corrected to 10% O <sub>2</sub>	<b>0.0272</b>
<b>Limits as per MoEF &amp; CC Notification GSR 497(E)</b>			<b>&lt;0.1</b>

Method of Testing: As per USEPA 23 A &amp; 8290

Remarks: All the values are corrected to 10% O<sub>2</sub> as per CPCB Guidelines.

Instruments used: Auto spec Premier (HRGC/HRMS). Detection Limit: 0.01ng

Dr. SubbaReddy Mallampati  
Group Leader-Environment



# Cleenviron Private Limited

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



Certificate No: TC - 0018

## TEST REPORT FOR EFFLUENT WATER QUALITY ANALYSIS

FORMAT NO: CPL/FWB1

ULR - TC881621000000523P  
REPORT NO: CPL/R/EW/MAR-21/12

REPORT ISSUE DATE: 11.03.2021

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/EW/MAR-21/2**  
 Sample Description : Effluent Water  
 Date of Sampling : 04.03.2021  
 Location of Sampling : ETP Outlet (Garden In front of L1 CCR)  
 Sampling Method : APHA 23<sup>rd</sup> Edition, 1060  
 Sampling Deviation (if any) : Nil  
 Condition of Sample while receipt : Sealed  
 Appearance of Sample while receipt : Clear  
 Type of Container used for sampling : Wide Mouth Glass & Narrow Mouth Plastic Bottles  
 Sample Received on : 05.03.2021  
 Date of Test : 05.03.2021 - 11.03.2021

Sl No	Parameters	Method of Analysis	Results Obtained	Unit	Permissible Limit as per Schedule 6 of EPA 1986, (GSR - 422E, Rule 1986)
1.	pH Value	APHA 23 <sup>rd</sup> Edition, 4500 H+B	7.58	-	6.0 - 9.0
2.	Turbidity	APHA 23 <sup>rd</sup> Edition, 2130 B	2.2	NTU	-
3.	Total Suspended Solids	APHA 23 <sup>rd</sup> Edition, 2540 D	< 2.5	mg/l	100
4.	Oil & Grease	IS 3025 (Part 39): 1991 (RA 2014)	< 2.0	mg/l	10
5.	BOD 5days at 20°C	APHA 23 <sup>rd</sup> Edition, 5210 D	28	mg/l	100
6.	Chemical Oxygen Demand	APHA 23 <sup>rd</sup> Edition, 5220 D	91.42	mg/l	250
7.	Total Chromium (as Cr)	APHA 23 <sup>rd</sup> Edition, 3111 B	< 0.10	mg/l	-
8.	Phenolic Compounds (as C <sub>6</sub> H <sub>5</sub> OH)	APHA 23 <sup>rd</sup> Edition, 5530 D	< 0.10	mg/l	1.0
9.	*Cyanide (as CN)	MERCK	< 0.002	mg/l	-

\*Parameter is not under NABL scope

*Aksanah*  
Test Done By

*P. S. Dine*  
Verified By



*Subhanga Praharaj*  
Authorized Signatory  
Subhanga Praharaj  
Managing Director/QM

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

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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.

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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.



Certificate No: TG - 0818

## TEST REPORT FOR EFFLUENT WATER QUALITY ANALYSIS

FORMAT NO: CPL/PM61

ULR – TC681621000000525P  
REPORT NO: CPL/R/EW/MAR-21/14

REPORT ISSUE DATE: 11.03.2021

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/EW/MAR-21/4**  
 Sample Description : Effluent Water  
 Date of Sampling : 04.03.2021  
 Location of Sampling : STP Outlet  
 Sampling Method : APHA 23<sup>rd</sup> Edition, 1060  
 Sampling Deviation (if any) : Nil  
 Condition of Sample while receipt : Sealed  
 Appearance of Sample while receipt : Clear  
 Type of Container used for sampling : Narrow Mouth Plastic Bottles  
 Sample Received on : 05.03.2021  
 Date of Test : 05.03.2021 – 11.03.2021

Sl No	Parameters	Method of Analysis	Results Obtained	Unit	Permissible Limit as per EPA 1986
1	pH Value	APHA 23 <sup>rd</sup> Edition, 4500 H <sup>+</sup> B	7.55	-	6.5 – 9.0
2.	Turbidity	APHA 23 <sup>rd</sup> Edition, 2130 B	6.4	NTU	-
3.	Total Suspended Solids	APHA 23 <sup>rd</sup> Edition, 2540 D	70.3	mg/l	100
4.	BOD 5days at 20°C	APHA 23 <sup>rd</sup> Edition, 5210 D	22	mg/l	30
5.	Chemical Oxygen Demand	APHA 23 <sup>rd</sup> Edition, 5220 D	72.66	mg/l	-
6.	Total Kjeldahl Nitrogen	APHA 23 <sup>rd</sup> Edition, 4500 N <sub>org</sub> C	< 10	mg/l	-
7.	*Fecal Coliform	RAKIRO	100	Nos/100ml	1000

\*Parameter is not under NABL scope

*Subhanga Praharaj*  
Test Done By

*P. D. O. e*  
Verified By

*Subhanga Praharaj*  
Authorized Signatory  
Subhanga Praharaj  
Managing Director/QM



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

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D/124, KOELNAGAR, ROURKELA – 769014, Dist: SUNDARGARH, ODISHA

Tele Fax: 0661 – 2475748, email: cleenviron@gmail.com



# Cleenviron Private Limited

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



Certificate No: TC - 6616

## TEST REPORT FOR DRINKING WATER QUALITY ANALYSIS

FORMAT NO: CPL/FM/60

ULR - TC681821000000527P

REPORT NO: CPL/R/W/MAR-21/22

REPORT ISSUE DATE: 11.03.2021

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/W/MAR-21/2**  
 Sample Description : Drinking Water  
 Date of Sampling : 04.03.2021  
 Location of Sampling : New Colony Gate  
 Sampling Method : APHA 23<sup>rd</sup> Edition, 1060  
 Sampling Deviation (if any) : Nil  
 Condition of Sample while receipt : Sealed  
 Appearance of Sample while receipt : Clear  
 Type of Container used for sampling : Narrow Mouth Plastic & Wide Mouth Glass Bottles  
 Sample Received on : 05.03.2021  
 Date of Test : 05.03.2021 - 11.03.2021

Sl. No.	Parameters	Method of Analysis	Results Obtained	Unit	Maximum Limit Value	
					Acceptable	Permissible
1	pH Value	APHA 23 <sup>rd</sup> Edition, 4500 H <sup>+</sup> B	7.83	-	6.5 - 8.5	6.5 - 8.5
2	Turbidity	APHA 23 <sup>rd</sup> Edition, 2130 B	0.8	NTU	1	5
3	Total Suspended Solids	APHA 23 <sup>rd</sup> Edition, 2540 D	< 2.5	mg/l	-	-
4	Total Dissolved Solids	APHA 23 <sup>rd</sup> Edition, 2540 B	318	mg/l	500	2000
5	*Oil & Grease	IS 3025 (Part 39): 1991 (RA 2014)	< 0.10	mg/l	-	-
6	Fluoride (as F)	APHA 23 <sup>rd</sup> Edition, 4500 F D	0.30	mg/l	1.0	1.5
7	*Residual Free Chlorine (as Cl <sub>2</sub> )	MERCK	0.11	mg/l	0.2 min	1.0 min
8	Phenolic Compounds (as C <sub>6</sub> H <sub>5</sub> OH)	APHA 23 <sup>rd</sup> Edition, 5530 D	ND	mg/l	0.001	0.002
9	Total Arsenic (as As)	APHA 23 <sup>rd</sup> Edition, 3114 B	< 0.002	mg/l	0.01	0.05
10	Total Hardness (as CaCO <sub>3</sub> )	APHA 23 <sup>rd</sup> Edition, 2340 C	197.56	mg/l	200	600
11	*Cyanide (as CN)	MERCK	ND	mg/l	0.05	0.05
12	*Total Coliform Bacteria	RAKIRO	Absent	Nos/100ml	Absent	Absent
13	*E. coli	RAKIRO	Absent	Nos/100ml	Absent	Absent

\*Parameters are not under NABL Scope.

ND: Non-Detectable

Remarks: The water is suitable for drinking with respect to the parameters analyzed and on comparison with Max. Limit mentioned above.

Test Done By



Verified By

Authorized Signatory  
Subhanga Praharaj  
Managing Director/QM

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

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