

Ambuja Cement

Ref: ACL/MNG/HR- 136-2020

Date: 30th June, 2020

Ministry of Environment and Forest
Regional Office (South Zone)
Bangalore

Kind Attn: Dr. E. Thirunavukkarasu

Dear Sir,

Sub: CRZ Clearance for Bulk cement handling unit at New Mangalore Port Trust
by Ms. Ambuja Cements Limited

Ref: F.No.11-98/2010-IA-III Dt.22.12.2010

With reference to the above referred clearance, we are pleased to submitting
herewith following reports

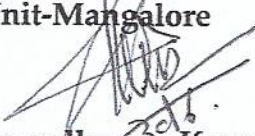
1. Half yearly compliance/status report for the period October 2019 to March 2020.
2. Monitoring report of stack emission, noise, ambient air quality analysis for the period October 2019 to March 2020.

This is for your kind information and for records.

Kindly acknowledge receipt of the same.

Thanking you.

Yours faithfully,
For Ambuja Cements Limited
Unit-Mangalore


Anandkumar Kamanalli
Unit Head.

Encl: As above

Copy to: The Karnataka State Pollution Control Board
Regional Office, Mangalore




REGIONAL OFFICE
Karnataka State Pollution Control Board
Plot No.10-B, Baikampady Industrial Area
MANGALORE-575011

Ambuja Cements Limited - Unit Mangalore

Half Yearly Compliance Report in respect of Bulk cement handling at New Manalore Port
CRZ Clearance Ref. F.No.11-98/2010-IA-III Dt. 22nd Dec 2010
Period : October 2019 to March 2020

Ambuja Cement Limited,
(unit: Mangalore)
New Mangalore Port Trust
No. 35, Panambur Beach Road
Panambur, MANGALORE - 575 010

Sl. No	Terms and Conditions	Compliance Status
A. Specific Conditions		
1	"Consent for Establishment" shall be obtained from Karnataka Pollution Control Committee under Air and Water Act and a copy shall be submitted to the Ministry before start of any construction work at the site.	Obtained the licence from KSPCB
2	The conveyer shall be a closed system	Closed Conveyor is Installed
3	Dust control measures shall be provided at loading, unloading and Transfer points	Complied, total 5 numbers of bag filters are installed at all transfer points
4	Construction shall be carried out strictly as per the provisions of CRZ Notification, 1991. No construction work other than those permitted in Coastal Regulation Zone Notification shall be carried out in Coastal Regulation Zone area	Consutructed site is as per provison of CRZ notification.
5	There shall be no disposal of solid and liquid wastes in to the Coastal area	No Any Solid waste disposed in coastal area.
6	There shall be no ground water drawal within CRZ area	No any connection to under ground water resource, Using NMPT supplied water.
7	Installation and operation of DG set if any shall comply with the guidelines of CPCB. The diesel required for operating DG sets shall be stored in underground tanks and if required, clearance from Chief Controller of Explosives shall be taken	Complied. One 1500 Kva DG set installed and shall be used in emergency. Acoustic enclosure and stack of 30 meters height is provided
8	Under the provisions of Environment (Protection) Act, 1986, legal action shall be initiated against the project proponent if it was found that construction of the project has been started without obtaining environmental clearance	Project stated by taking proper environmental clearance
B. General Conditions		
1	The construction of the structures should be undertaken as per the plans approved by the concerned local authorities / local administration, meticulously confirming to the existing local and Central rules and regulations including the provisions of Coastal Regulation Zone Notification dt. 19.02.1991 and the approved Coastal Zone Management Plan of Karnataka.	Constuction done as per the plan approved
2	Full support shall be extended to the officers of this Ministry / Regional Office at Bangalurur by the project proponent during inspection of the project for monitoring purposes by furnishing full details and action plan including action taken report in respect of mitigation measures and other environmental protection activities.	Agreed, Consturction activity is completed in year 2013.

3	A six-monthly monitoring report shall need to be submitted by the project proponents to the Regional Office of this Ministry at Bangaluru regarding the implementation of the stipulated conditions.	Tests are being conducted on monthly basis. The test reports attached . No any non confirmation observed.
4	Ministry of Environment & Forests or any other competent authority may stipulate any additional conditions or modify the existing ones, if necessary in the interest of environment and the same shall be complied with	Agreed and complied the same
5	The Ministry reserve the right to revoke this clearance if any of the conditions stipulated are not complied with the satisfaction of the Ministry	Agreed and complied the same
6	In the event of a change in project profile or change in the implementation agency, a fresh reference shall be made to the Ministry of Environment and Forests.	Constructed as planned, Changes will be referred to MOEF,
7	The project proponents 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 start of land development work.	Informed the Regional Office
8	A copy of clearance letter shall be marked to the concerned Panchayat / Local NGO, if any, from whom any suggestion / representation has been made received while processing the proposal	Copy submitted to NMPT.
9	State Pollution Control Board shall display a copy of the clearance letter at the Regional Office, District Industries Centre and Collector's Office / Tehsildar's Office for 30 days	Complied
10	These stipulations would be enforced among others under the provisions of Water (Prevention and Control of Pollution) Act 1974, the Air (Prevention and Control of Pollution) Act 1981, the Environment (Protection) Act 1986, the Public Liability (Insurance) Act 1991 and EIA Notification 1994, including the amendments and rules made thereafter	Adhered the statute
11	All other statutory clearances such as the approvals for storage of diesel from Chief Controller of Explosives, Fire Department, Civil Aviation Department, Forest Conservation Act, 1980 and Wildlife (Protection) Act, 1972 etc. shall be obtained, as applicable by project proponents from the respective competent authorities	Complied
12	The project proponent shall advertise in at least two local Newspapers widely circulated in the region, one of which shall be in the vernacular language informing that the project has been accorded Environmental Clearance and copies of clearance letters are available with the Andhra Pradesh Pollution Control Board and may also be seen on the website of the Ministry of Environment and Forests at http://www.envfor.nic.in . The advertisement should be made within 10 days from the date of receipt of the Clearance letter and a copy of the same should be forwarded to the Regional office for this Ministry at Bangaluru.	Environmental clearance details published in news papers

13	Environmental clearance is subject to final order of the Hon'ble Supreme Court of India in the matter of Goa Foundation Vs. Union of India in Writ Petition (Civil) No.460 of 2004 as may be applicable to this project	Agreed
14	A copy of the clearance letter shall be sent by the proponent to concerned Panchayat, Zilla Parishad / Municipal Corporation, Urban Local Body and the Local NGO, if any, from whom suggestions / representations, if any, were received while processing the proposal. The clearance letter shall also be put on the website of the company by the proponent	Complied
15	The proponent shall upload the status of compliance of the stipulated EC conditions, including results of monitored data on their website and shall update the same periodically. It shall simultaneously be sent to the Regional Office of MoEF, the respective Zonal Office of CPCB and the SPCB.	Uploaded in our website URL: https://www.ambujacement.com/ ✓
16	The project proponent shall also submit six monthly reports on the status of compliance of the stipulated EC conditions including results of monitored data (both in hard copies as well as by e-mail) to the respective Regional Office of MoEF, the respective Zonal Office of CPCB and the SPCB.	Complied and results of monitored data is enclosed
17	The environmental statement for each financial year ending 31st March in Form-V as is mandated to be submitted by the project proponent to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently, shall also be put on the website of the Company along with the status of compliance of EC conditions and shall also be sent to the respective Regional Offices of MoEF by e-mail	Complied and returns submitted within due period

For Ambuja Cements Limited


 Authorised Signatory

COMPLIANCE STATUS REPORT of Combined Consent Order No. AW301301, PCB ID:N16233 Oct 2019 to April 2020

Sl. No	TERMS AND CONDITIONS	Compliance Status
A. TREATMENT AND DISPOSAL OF EFFLUENTS UNDER THE WATER ACT		
1	The discharge from the premises of the Occupier shall pass through the terminal manhole / manholes where from the Board shall be free to collect samples in accordance with the provisions of the Act or Rules made there under	Provisions are there to collect samples as per the Act / Rule
2	a. The sewage / domestic effluent shall be treated in septic tank and with soak pit. No overflow from the soak pit is allowed. The septic tank and soak pit shall be as per IS2470 Part-I & Part-II b. The treated sewage effluent discharged shall conform to the specific standards	Soak pit is provided in premises and same will be cleaned through certified vendor periodically
3	There shall not be generation of trade effluent	Noted
4	The occupier shall install flow measuring / recording devices to record the discharge quantity and maintain the record	We do not have STP
5	The occupier shall not change or alter either the quality or the quantity or the place of discharge or temperature or the point of discharge with out the previous consent / permission of the Board	Noted
6	The occupier shall not allow the discharge from the other premises to mix with the discharge from his premises. Storm water shall not be allowed to mix with the effluent on the upstream of the terminal manhole where the flow measuring devices are installed	Noted
B. DISCHARGE OF EMISSION UNDER THE ACT		
1	The discharge of emissions from the premises of the applicant shall pass through the stack/chimney/outlet mentioned in this consent order where from the Board shall be free to collect the samples at any time accordance with the Act or Rules made there under	The stack/chimney/outlet provided from there sample can be collected and complied as per consent conditions
2	The occupier shall provide port holes for sampling of emission, access platforms for carrying out stack sampling, electrical points and all other necessary arrangements including ladder	Port holes, flat forms and electrical connections are provided to collect the sample of emission
3	The occupier shall upgrade/modify/replace the control equipment with prior permission of the Board	Noted
C. WATER CESS		
1	The occupier shall provide water meter at all the intake points as specified under section (5) of the Water Cess Act, 1977 and shall file the water cess returns regularly before fifth of every month and also pay the cess assessed with the time stipulated	We are getting water from NMPT, water meter has been installed at the inlet point. The water cess is paying within due period.
B. DISCHARGE OF EMISSION UNDER THE ACT		
1	The occupier shall get the samples of effluents and emissions collected and get them analysed once a month/indicated in Annexure for the parameters	Tests are being conducted on monthly basis. The test reports attached for perusal. Complied as per the mentioned standards.
E. SOLID WASTE (OTHER THAN HAZARDOUS WASTE) DISPOSAL		
1	The occupier shall segregate solid waste from Hazardous wastes, Municipal Solid Waste and store it properly till treatment /disposal without pollution to the surrounding Environment	Proper arrangements are made inside our premises to store the Hazardous waste, E-Waste, Municipal Solid waste.
2	The solid waste generated shall be handled and disposed by scientific method without causing eye store to the general public and to the surrounding environment	Hazardous waste being disposed through PCB approved vendors/recyclers
F. NOISE POLLUTION CONTROL		
1	The industry shall ensure that the ambient noise levels within its premises shall not exceed the limit i.e. 75db(A) Leq during day time and 70db(A) Leq during night time as specified in the Environment (Protection) Rules	Tests are being conducted on monthly basis. The test reports attached for perusal. Complied as per the mentioned standards.
G. GENERAL CONDITIONS		
1	The Board reserve the right to review, impose additional conditions, revoke, change or alter terms and conditions of this consent	Noted
2	The occupier shall forthwith keep the Board informed of any accidental discharge of emission /effluents into the atmosphere in excess of the standards laid down by the Board. The applicant shall also corrective steps to mitigate the impact	Noted
3	The occupier shall provide alternative power supply sufficient to operate all Pollution control equipments	Noted
4	The entire premises shall always be kept clean. The effluent holding area, inspection chambers, outlets, flow measuring points should made easily approachable	All the area are kept clean and its approachable
5	The occupier shall display consent granted in a prominent place for perusal of the inspecting officers of the Board	Complied
6	The Occupier his heirs, legal representatives or assigns shall have no claims what so ever to the continuation or renewal of this consent after expiry of the validity of consent	Noted
7	The occupier shall make an application for consent at least 45 days before expiry of this consent	Noted
8	The occupier shall maintain register recording the ambient air quantity and stack monitoring. The register shall be open for inspection by the Board Officers at all time	Environment register(Test certificates) has been maintained



Report No: A/2019/0113

Report Date: 18/10/2019

AMBIENT AIR QUALITY ANALYSIS REPORT

Name M/s Ambuja Cements India Ltd.,
Address Panambur Unit, Near NMPT, Mangalore

Sample Collected By OneEarth Enviro Labs
Sampling Location 1. Security Office, 2. Near Silo Bottom Area,
3. Near Maintenance Building

Date of Sampling 16/10/2019

Date of Sample Receipt 16/10/2019

Sampling Details Ambient Air Quality Monitoring for 8 Hrs

Analysis Start Date

17/10/2019

Analysis End Date

17/10/2019

Humidity % 81.2 Temp °C 31.2 °C Pressure mmHg 759.59

Sl. No	Date & Time	16/10/2019 0900-1700	16/10/2019 0910-1710	16/10/2019 0920-1720	NAAQ STD	Protocol
	Location	1	2	3		
	Parameters	Result ($\mu\text{g}/\text{m}^3$)				
1	PM2.5	21.62	21.87	33.74	60	USEPA QA Doc 2.12
2	PM10	84.47	56.32	42.15	100	IS 5182 : Part 23
3	SPM	21.90	21.35	54.11	500	IS 5182 : Part 4
4	SO ₂	BDL	BDL	BDL	80	IS 5182 : Part 2
5	NO ₂	BDL	BDL	BDL	80	IS 5182 : Part 6

BDL-Below Detection Limit ND-Not Detectable DLT-Detectable Limit BDL for SO₂ - 4 $\mu\text{g}/\text{m}^3$ & NO₂ - 9.4 $\mu\text{g}/\text{m}^3$
SPM given contains only particulate matter size above 10 μm NAAQ- National Ambient Air Quality Standard

Opinion

As per Standards mentioned in the report.
Report Status: - The sample meets the requirement as per relevant standard
w.r.t above tested parameters.



One Earth Enviro Labs

1 Floor, KSIA Building
Baikampady Industrial Area
MANGALORE - 575 011
Email: oneearthenviro@gmail.com

For OneEarth Enviro Labs

Authorized Signatory
(Murlidhar S M, Quality Manager)

Note: 1. The report shall not be reproduced wholly or in part, cannot be used as evidence in court of law. 2. The above result pertains only to the samples collected/received. 3. Samples will be destroyed after fifteen days from the date of issue of test reports unless otherwise specified. Perishable samples are not retained. 4. Any dispute arising out of this test report is subjected to Mangalore Jurisdiction only. 5. Total liability of our lab is limited to the invoice amount only. 6. Conformity statement might be affected due to measurement uncertainty



NABL ACCREDITED AS PER ISO/IEC 17025:2005

ISO 9001:2015, OHSAS 18001:2007 CERTIFIED

Report No: A/2019/0122

Report Date: 08/11/2019

AMBIENT AIR QUALITY ANALYSIS REPORT

Name M/s Ambuja Cements India Ltd.,
Address Panambur Unit, Near NMPT, Mangalore

Sample Collected By OneEarth Enviro Labs

Sampling Location 1. Security Office, 2. Near Maintenance Building,
3. Near Silo Bottom Area

Date of Sampling 06/11/2019

Analysis Start Date

07/11/2019

Date of Sample Receipt 06/11/2019

Analysis End Date

Sampling Details Ambient Air Quality Monitoring for 8 Hrs

07/11/2019

Humidity % 81.2 Temp °C 31°C Pressure mmHg 759.29

Sl. No	Date & Time	06/11/2019 0900-1700	06/11/2019 0910-1710	06/11/2019 0920-1720	NAAQ STD	Protocol
	Location	1	2	3		
	Parameters	Result (µg/m³)				
1	PM2.5	49.99	25.00	21.25	60	USEPA QA Doc 2.12
2	PM10	58.89	42.15	32.58	100	IS 5182 : Part 23
3	SPM	15.28	24.48	23.37	500	IS 5182 : Part 4
4	SO ₂	BDL	BDL	BDL	80	IS 5182 : Part 2
5	NO ₂	BDL	BDL	BDL	80	IS 5182 : Part 6

BDL-Below Detection Limit ND-Not Detectable DLT-Detectable Limit BDL for SO₂ - 4 µg/m³ & NO₂ - 9.4 µg/m³
SPM given contains only particulate matter size above 10µm NAAQ- National Ambient Air Quality Standard

Opinion As per Standards mentioned in the report.
Report Status: - The sample meets the requirement as per relevant standard w.r.t above tested parameters.

For OneEarth Enviro Labs

Authorized Signatory
(Murlidhar S M, Quality Manager)



OneEarth Enviro Labs
1 Floor, KSIA Building,
Baikampady Industrial Area,
MANGALORE - 575 011
Email: oneearthenviro@gmail.com

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OneEarth Enviro Labs

1st Floor, KSIA Building, Industrial Area Road, Baikampady,
Mangaluru - 575 011. Ph: 0824-240 9011 Mob: +91 87625 39077
Email: oneearthenviro@gmail.com Website: oneearthenvirolabs.com

OEL/A/F/08795



Certificate No. TC-7847

NABL ISO/IEC 17025:2005

ISO 9001:2015

OHSAS 18001:2007 CERTIFIED

MOEF & CC RECOGNISED

Report No: A/2019/0148

Report Date: 16/12/2019

AMBIENT AIR QUALITY ANALYSIS REPORT

Name M/s Ambuja Cements India Ltd.,
Address Panambur Unit, Near NMPT, Mangalore

Sample Collected By OneEarth Enviro Labs
Sampling Location 1. Security Office, 2. Near Maintenance Building,
3. Near Silo Bottom Area

Date of Sampling 11/12/2019

Analysis Start Date

11/12/2019

Date of Sample Receipt 11/12/2019

Analysis End Date

Sampling Details Ambient Air Quality Monitoring for 8 Hrs

13/12/2019

Humidity % 89.2 Temp °C 34 °C Pressure mmHg 759.29

Sl. No	Date & Time	11/12/2019 1000-1800	11/12/2019 1005-1805	11/12/2019 1015-1815	NAAQ STD	Protocol
	Location	1	2	3		
	Parameters					
1	PM2.5	25.98	45.49	36.87	60	USEPA QA Doc 2.12
2	PM10	36.18	65.30	64.78	100	IS 5182 : Part 23
3	SPM	26.69	8.96	16.75	500	IS 5182 : Part 4
4	SO ₂	BDL	BDL	BDL	80	IS 5182 : Part 2
5	NO ₂	BDL	BDL	BDL	80	IS 5182 : Part 6

BDL-Below Detection Limit ND-Not Detectable DLT-Detectable Limit BDL for SO₂ - 4 µg/m³ & NO₂ - 9.4 µg/m³
SPM given contains only particulate matter size above 10µm NAAQ- National Ambient Air Quality Standard

Opinion

As per Standards mentioned in the report.
Report Status: - The sample meets the requirement as per relevant standard
w.r.t above tested parameters.

For OneEarth Enviro Labs

Authorized Signatory
(Murlidhar S M, Quality Manager)



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OneEarth Enviro Labs

OEL/A/F/08/05

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NABL ACCREDITED AS PER ISO/IEC 17025:2005 | ISO 9001:2015 | OHSAS 18001:2007 CERTIFIED | MOEF & CC RECOGNISED

Report No: A/2020/0025,26,27

Report Date:22/01/2020

AMBIENT AIR QUALITY ANALYSIS REPORT

Name M/s Ambuja Cements India Ltd.,
Address Panambur Unit, Near NMPT, Mangalore

Sample Collected By OneEarth Enviro Labs
Sampling Location 25. Security Office, 26. Near Maintenance Building, 27. Near Silo Bottom Area

Date of Sampling 18/01/2020 Analysis Start Date 21/01/2020
Date of Sample Receipt 18/01/2020 Analysis End Date 22/01/2020
Sampling Details Ambient Air Quality Monitoring for 8 Hrs

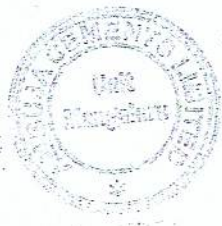
Humidity % 89.1 Temp °C 34 °C Pressure mmHg 759.29

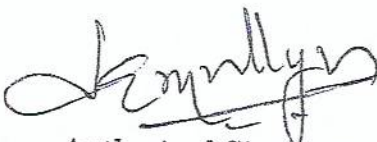
Sl. No	Date & Time	18/01/2020 0900-1700	18/01/2020 0910-1710	18/01/2020 0920-1720	NAAQ STD	Protocol
	Location	A25	A26	A27		
	Parameters	Result ($\mu\text{g}/\text{m}^3$)				
1	PM2.5	31.99	23.12	52.99	60	USEPA QA Doc 2.12
2	PM10	62.61	89.44	88.34	100	IS 5182 : Part 23
3	SPM	--	5.89	40.78	500	IS 5182 : Part 4
4	SO ₂	BDL	BDL	BDL	80	IS 5182 : Part 2
5	NO ₂	BDL	BDL	BDL	80	IS 5182 : Part 6

BDL-Below Detection Limit ND-Not Detectable DLT-Detectable Limit BDL for SO₂ - 4 $\mu\text{g}/\text{m}^3$ & NO₂ -9.4 $\mu\text{g}/\text{m}^3$
SPM given contains only particulate matter size above 10 μm NAAQ- National Ambient Air Quality Standard

Opinion As per Standards mentioned in the report.
Report Status: - The sample meets the requirement as per relevant standard w.r.t above tested parameters.

For OneEarth Enviro Labs




Authorized Signatory
(Murlidhar S M, Quality Manager)

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Certificate No. TC-7847
NABL ISO/IEC 17025:2005

ISO 9001:2015 | OHSAS 18001:2007 CERTIFIED | MOEF & CC RECOGNISED

Report No: A/2020/055,56,57

Report Date: 15/02/2020

AMBIENT AIR QUALITY ANALYSIS REPORT

Name: M/s Ambuja Cements India Ltd.,
Address: Panambur Unit, Near NMPT, Mangalore

Sample Collected By: OneEarth Enviro Labs
Sampling Location: 55 Near Silo Bottom Area, 56. Near Maintenance Building, 57. Security Office
Date of Sampling: 12/02/2020
Date of Sample Receipt: 12/02/2020
Sampling Details: Ambient Air Quality Monitoring for 8 Hrs

Analysis Start Date: 12/02/2020
Analysis End Date: 12/02/2020

Humidity %: 81 Temp °C: 34 °C Pressure mmHg: 759.96

Sl. No	Date & Time	12/02/2020			NAAQ STD	Protocol
		1120-1920	1110-1910	1100-1900		
	Location Parameters	A55	A56	A57		
Result (µg/m³)						
1	PM2.5	41.37	34.74	35.74	60	USEPA QA Doc 2.12
2	PM10	57.74	70.36	70.86	100	IS 5182 : Part 23
3	SPM	--	--	5.34	500	IS 5182 : Part 4
4	SO ₂	BDL	BDL	BDL	80	IS 5182 : Part 2
5	NO ₂	BDL	BDL	BDL	80	IS 5182 : Part 6

BDL-Below Detection Limit ND-Not Detectable DLT-Detectable Limit BDL for SO₂ - 4 µg/m³ & NO₂ - 9.4 µg/m³
SPM given contains only particulate matter size above 10µm NAAQ- National Ambient Air Quality Standard

Opinion: As per Standards mentioned in the report.
Report Status: - The sample meets the requirement as per relevant standard w.r.t above tested parameters.

For OneEarth Enviro Labs



Authorized Signatory
(Murlidhar S M, Quality Manager)

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Report No: A/2020/0106,07,08

Report Date: 23/03/2020

AMBIENT AIR QUALITY ANALYSIS REPORT

Name M/s Ambuja Cements India Ltd.,
Address Panambur Unit, Near NMPT, Mangalore

Sample Collected By OneEarth Enviro Labs
Sampling Location 106- Security Office, 107- Near Maintenance Building,
108-Near Silo Bottom Area

Date of Sampling 19/03/2020 Analysis Start Date 19/03/2020
Date of Sample Receipt 19/03/2020 Analysis End Date 23/03/2020

Sampling Details Ambient Air Quality Monitoring for 8 Hrs

Humidity % 82.10 Temp °C 36.70 °C Pressure mmHg 759.96

Sl. No	Date & Time	19/03/2020			NAAQ STD	Protocol
		0900-1700	0910-1710	0920-1720		
	Location	A106	A107	A108		
	Parameters	Result (µg/m³)				
1	PM2.5	26.12	22.50	29.74	60	USEPA QA Doc 2.12
2	PM10	51.35	55.21	68.99	100	IS 5182 : Part 23
3	SPM	5.15	13.43	--	500	IS 5182 : Part 4
4	SO ₂	BDL	BDL	BDL	80	IS 5182 : Part 2
5	NO ₂	BDL	BDL	BDL	80	IS 5182 : Part 6

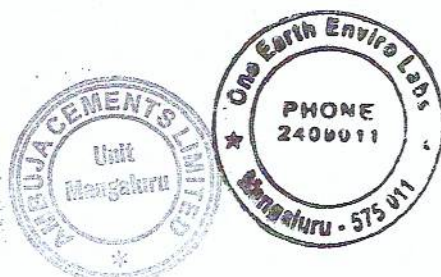
BDL-Below Detection Limit ND-Not Detectable DLT-Detectable Limit BDL for SO₂ - 4 µg/m³ & NO₂ - 9.4 µg/m³
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Opinion

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Report Status: - The sample meets the requirement as per relevant standard w.r.t above tested parameters.

For OneEarth Enviro Labs

Authorized Signatory
(Murlidhar S M, Quality Manager)



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MOEF & CC Recognised
OEL/A/F/10/03



Certificate No. TC-7847

NABL ACCREDITED AS PER ISO/IEC 17025:2005

ISO 9001:2015, OHSAS 18001:2007 CERTIFIED

Report No: N/2019/0174

Report Date: 26/10/2019

AMBIENT NOISE LEVEL MONITORING REPORT

Name of the Industry Address M/s Ambuja Cements India Ltd.,
Panambur Unit, Near NMPT, Mangalore

Sample Collected By OneEarth Enviro Labs
Sampling Location L1- Near Out Gate Compound

Date of Sampling 16/10/2019, 25/10/2019
Date of Sample Receipt On site
Sampling Details Noise Level Monitoring Day & Night Time
Method Adopted IS:9989.1981

SL NO	Sample Location	Date	Duration	Parameters						KSPCB Limits
				Min	Max	Leq	L90	L50	L10	
1	L1	16/10/2019	1305-1310	41.2	63.1	60.2	--	--	--	75dB
2	L1	25/10/2019	2150-2155	41.2	61.1	59.3	--	--	--	

Leq – Arithmetically mean value in a period of set time

Opinion

As per Standards mentioned in the report.
Report Status:- The sample meets the requirement as per relevant standard w.r.t above tested parameters.



OneEarth Enviro Labs
1st Floor, KSIA Building
Baikampady Industrial Area
MANGALORE - 575 011
Email: oneearthenviro@gmail.com

For OneEarth Enviro Labs

Authorised Signatory
(Murlidhar S M, Quality Manager)

Note : 1. The report shall not be reproduced wholly or in part, cannot be used as evidence in court of law. 2. The above result pertains only to the samples collected/received. 3. Any dispute arising out of this test report is subjected to Mangalore Jurisdiction only. 4. Method Adopted IS:9989.1981 5. Total liability of our lab is limited to the invoice amount only. 6. Conformity statement might be affected due to measurement uncertainty.

OneEarth Enviro Labs

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OEL/A/F/10/03



Certificate No. TC-7847

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ISO 9001:2015, OHSAS 18001:2007 CERTIFIED

Report No: N/2019/0186

Report Date: 25/11/2019

AMBIENT NOISE LEVEL MONITORING REPORT

Name of the Industry: M/s Ambuja Cements India Ltd.,
Address: Panambur Unit, Near NMPT, Mangalore

Sample Collected By: OneEarth Enviro Labs
Sampling Location: L1- Near Out Gate Compound

Date of Sampling: 06/11/2019, 23/11/2019
Date of Sample Receipt: On site
Sampling Details: Noise Level Monitoring Day & Night Time
Method Adopted: IS:9989.1981

SL NO	Sample Location	Date	Duration	Parameters						KSPCB Limits
				Min	Max	Leq	L90	L50	L10	
1	L1	06/11/2019	1700-1705	41.7	64.1	62.7	--	--	--	75dB
2	L1	23/11/2019	2210-2215	41.6	60.2	58.1	--	--	--	

Leq - Arithmetically mean value in a period of set time

Opinion

As per Standards mentioned in the report.
Report Status:- The sample meets the requirement as per relevant standard w.r.t above tested parameters.



OneEarth Enviro Labs
1 Floor, KSIA Building
Baikampady Industrial Area
MANGALORE - 575 011
Email: oneearthenviro@gmail.com

For OneEarth Enviro Labs

Authorised Signatory
(Murlidhar S M, Quality Manager)

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OneEarth Enviro Labs

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Certificate No. TC-7847

NABL ISO/IEC 17025:2005

ISO 9001:2015

OHSAS 18001:2007 CERTIFIED

MOEF & CC RECOGNISED

Report No: N/2019/0251

Report Date: 30/12/2019

AMBIENT NOISE LEVEL MONITORING REPORT

Name of the Industry M/s Ambuja Cements India Ltd.,
Address Panambur Unit, Near NMPT, Mangalore

Sample Collected By OneEarth Enviro Labs
Sampling Location L1- Near Out Gate Compound

Date of Sampling 28/12/2019
Date of Sample Receipt On site
Sampling Details Noise Level Monitoring Night Time
Method Adopted IS:9989.1981

SL NO	Sample Location	Date	Duration	Parameters						KSPCB Limits
				Min	Max	Leq	L90	L50	L10	
1	L1	28/12/2019	2205-2210	41.1	29.1	57.3	--	--	--	75dB

Leq - Arithmetically mean value in a period of set time

Opinion

As per Standards mentioned in the report.
Report Status:- The sample meets the requirement as per relevant standard w.r.t
above tested parameters.



For OneEarth Enviro Labs

Authorised Signatory
(Murlidhar S M, Quality Manager)

Note: 1. The report shall not be reproduced wholly or in part, cannot be used as evidence in court of law. 2. The above result pertains only to the samples collected/received. 3. Any dispute arising out of this test report is subjected to Mangalore Jurisdiction only. 4. Method Adopted IS:9989.1981 5. Total liability of our lab is limited to the invoice amount only. 6. Conformity statement will be issued only if the sample is found to be within the limit.

OneEarth Enviro Labs

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Certificate No. TC-7847

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Report No: N/2020/014
Report Date: 27/01/2020

AMBIENT NOISE LEVEL MONITORING REPORT

Name of the Industry
Address
Sample Collected By
Sampling Location
Date of Sampling
Date of Sample Receipt
Sampling Details
Method Adopted

M/s Ambuja Cements India Ltd.,
Panambur Unit, Near NMPT, Mangalore
OneEarth Enviro Labs
L1- Near Out Gate Compound
25/01/2020
On site
Noise Level Monitoring Night Time
IS:9989.1981

SL NO	Sample Location	Date	Duration	Parameters						KSPCB Limits
				Min	Max	Leq	L90	L50	L10	
1	L1	25/01/2020	2100-2105	41.1	63.1	62.4	--	--	--	75dB

Leq - Arithmetically mean value in a period of set time

Opinion

As per Standards mentioned in the report.
Report Status:- The sample meets the requirement as per relevant standard w.r.t
above tested parameters.

For OneEarth Enviro Labs

Authorised Signatory
(Murlidhar S M, Quality Manager)



Note : 1. The report shall not be reproduced wholly or in part, cannot be used as evidence in court of law. 2. The above result pertains only to the samples collected/received. 3. Any dispute arising out of this test report is subjected to Mangalore Jurisdiction only. 4. Method Adopted IS:9989.1981 5. Total liability of our lab is limited to the invoice amount only. 6. Conformity statement might be affected due to measurement uncertainty

OneEarth Enviro Labs

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Certificate No. TC-7847

NABL ISO/IEC 17025:2005

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Report No: N/2020/009
Report Date: 22/01/2020

AMBIENT NOISE LEVEL MONITORING REPORT

Name of the Industry Address: M/s Ambuja Cements India Ltd.,
Panambur Unit, Near NMPT, Mangalore

Sample Collected By: OneEarth Enviro Labs
Sampling Location: L1- Near Out Gate Compound

Date of Sampling: 18/01/2020
Date of Sample Receipt: On site
Sampling Details: Noise Level Monitoring Day Time
Method Adopted: IS:9989.1981

SL NO	Sample Location	Date	Duration	Parameters						KSPCB Limits
				Min	Max	Leq	L90	L50	L10	
1	L1	18/01/2020	1300-1305	41.6	67.1	65.4	--	--	--	75dB

Leq - Arithmetically mean value in a period of set time

Opinion

As per Standards mentioned in the report.
Report Status:- The sample meets the requirement as per relevant standard w.r.t
above tested parameters.

For OneEarth Enviro Labs



(Signature)

Authorised Signatory
(Murlidhar S M, Quality Manager)

Note : 1. The report shall not be reproduced wholly or in part, cannot be used as evidence in court of law. 2. The above result pertains only to the samples collected/received. 3. Any dispute arising out of this test report is subjected to Mangalore Jurisdiction only. 4. Method Adopted IS:9989.1981 5. Total liability of our lab is limited to the invoice amount.

OneEarth Enviro Labs

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Certificate No. TC-7847

NABL ISO/IEC 17025:2005

ISO 9001:2015

OHSAS 18001:2007 CERTIFIED

MOEF & CC RECOGNISED

Report No: N/2020/028
Report Date: 24/02/2020

AMBIENT NOISE LEVEL MONITORING REPORT

Name of the Industry
Address

M/s Ambuja Cements India Ltd.,
Panambur Unit, Near NMPT, Mangalore

Sample Collected By
Sampling Location

OneEarth Enviro Labs
L1- Near Out Gate Compound

Date of Sampling
Date of Sample Receipt
Sampling Details
Method Adopted

12/02/2020 22/02/2020
On site
Noise Level Monitoring Day Night Time
IS:9989.1981

SL NO	Sample Location	Date	Duration	Parameters						KSPCB Limits
				Min	Max	Leq	L90	L50	L10	
1	L1	12/02/2020	1210-1215	38.1	67.9	69.7	--	--	--	75dB
2	L1	22/02/2020	2140-2145	42.1	68.1	66.3	--	--	--	

Leq – Arithmetically mean value in a period of set time

Opinion

As per Standards mentioned in the report.
Report Status:- The sample meets the requirement as per relevant standard w.r.t
above tested parameters.



For OneEarth Enviro Labs

Authorised Signatory
(Murlidhar S M, Quality Manager)

Note : 1. The report shall not be reproduced wholly or in part, cannot be used as evidence in court of law. 2. The samples collected/received. 3. Any dispute.

OneEarth Enviro Labs

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OEL/A/16/10/03



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Report No: N/2020/051
Report Date: 23/03/2020

AMBIENT NOISE LEVEL MONITORING REPORT

Name of the Industry Address M/s Ambuja Cements India Ltd.,
Panambur Unit, Near NMPT, Mangalore

Sample Collected By OneEarth Enviro Labs
Sampling Location L1- Near Out Gate Compound

Date of Sampling 19/03/2020 , 21/03/2020
Date of Sample Receipt On site

Sampling Details Noise Level Monitoring Day Night Time
Method Adopted IS:9989.1981

SL NO	Sample Location	Date	Duration	Parameters						KSPCB Limits
				Min	Max	Leq	L90	L50	L10	
1	L1	19/03/2020	1430-1435	38.6	67.1	65.2	--	--	--	75dB
2	L1	21/03/2020	2140-2145	37.1	62.1	57.4	--	--	--	

Leq - Arithmetically mean value in a period of set time

Opinion

As per Standards mentioned in the report.
Report Status:- The sample meets the requirement as per relevant standard w.r.t above tested parameters.

For OneEarth Enviro Labs

Authorised Signatory
(Murlidhar S M, Quality Manager)



Note : 1. The report shall not be reproduced wholly or in part, cannot be used as evidence in court of law. 2. The above result pertains only to the samples collected/received. 3. Any dispute arising out of this report shall be referred to the original signatory.

OneEarth Enviro Labs

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OEL/A/F/09/03

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Certificate No. TC-7847

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Report No: T/2019/0225
Report Date: 17/10/2019

SOURCE EMISSION ANALYSIS REPORT

Name of the Industry
Address

M/s Ambuja Cements India Ltd.,
Panambur Unit, Near NMPT, Mangalore

Sample Collected By
Sampling Location (Stack ID)
Date of Sampling
Date of Sample Receipt
Sample Details

One Earth Enviro Labs
S4-Cement Silo Top Bag Filter
16/10/2019
16/10/2019
Stack Monitoring

Analysis Start Date 17/10/2019
Analysis End Date 17/10/2019

Stack ID	S4	Protocol
Date & Time	16/10 1155	--
Fuel Used	Current	--
Temperature °C	47	--
Velocity (m/s)	5.97	--
Height (m)	63	--
Diameter (m)	0.50	--
Discharge Rate Nm ³ /Hr	4131.00	IS:11255.Part 1
Emission Rate Kg/Hr	0.1684	IS:11255.Part 1

Parameter	Unit	RESULTS S4	KSPCB Limits	Protocol
(S)PM	mg/Nm ³	40.77	150	IS:11255.Part 1
SO ₂	mg/Nm ³	0	NS	FGA
NO ₂	mg/Nm ³	0	NS	FGA
*CO	mg/Nm ³	0	NS	FGA
O ₂	%	20.90	NS	FGA
CO ₂	%	0.00	NS	FGA
*NMHC	ppm	0	NS	FGA

*Not Under NABL Scope / Range** (S)PM-Suspended Particulate Matter NS-Not Specified
FGA-Flue Gas Analyzer

Opinion

As per Standards mentioned in the report.
Report Status:- The sample meets the requirement as per relevant standard
w.r.t above tested parameters.

One Earth Enviro Labs
1 Floor, KSIA Building
Baikampady Industrial Area
MANGALORE - 575 011
Email: oneearthenviro@gmail.com



For OneEarth Enviro Labs

Authorised Signatory
(Murlidhar S M, Quality Manager)

Note: 1. The report shall not be reproduced wholly or in part, cannot be used as evidence in court of law. 2. The above result pertains only to the samples collected/received. 3. Samples will be destroyed after fifteen days from the date of issue of test reports unless otherwise specified. Perishable samples are not retained. 4. Any dispute arising out of this report shall be referred to the concerned authority.



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Report No: T/2019/0224

Report Date: 17/10/2019

SOURCE EMISSION ANALYSIS REPORT

Name of the Industry
Address

M/s Ambuja Cements India Ltd.,
Panambur Unit, Near NMPT, Mangalore

Sample Collected By

One Earth Enviro Labs

Sampling Location (Stack ID)

S1-Bag Filter1, S2- Bag Filter2, S3-DG1500 KVA

Date of Sampling

16/10/2019

Date of Sample Receipt

16/10/2019

Analysis Start Date

17/10/2019

Sample Details

Stack Monitoring

Analysis End Date

17/10/2019

Stack ID	S1	S2	S3	Protocol
Date & Time	16/10 1030	16/10 1110	16/10 1230	
Fuel Used	Current	Current	Diesel	--
Temperature °C	40	40	110	--
Velocity (m/s)	5.62	5.90	6.36	--
Height (m)	20	20	30	--
Diameter (m)	0.45	0.45	0.50	--
Discharge Rate Nm ³ /Hr	3216.17	3376.50	4492.56	IS:11255.Part 1
Emission Rate Kg/Hr	0.1455	0.1603	0.3267	IS:11255.Part 1

Parameter	Unit	S1	S2	S3	KSPCB Limits	Protocol
(S)PM	mg/Nm ³	45.23	47.46	72.72	150	IS:11255.Part 1
SO ₂	mg/Nm ³	0	0	5	NS	FGA
NO ₂	mg/Nm ³	0	0	50	NS	FGA
*CO	mg/Nm ³	0	0	143	NS	FGA
O ₂	%	20.90	20.90	16.20	NS	FGA
CO ₂	%	0.00	0.00	3.10	NS	FGA
*NMHC	ppm	0	0	7	NS	FGA

*Not Under NABL Scope / Range** (S)PM-Suspended Particulate Matter NS-Not Specified FGA-Flue Gas Analyzer

Opinion

As per Standards mentioned in the report.

Report Status:- The sample meets the requirement as per relevant standard w.r.t above tested parameters.

One Earth Enviro Labs

1 Floor, KSIA Building
Baikampady Industrial Area
MANGALORE - 575 011

Email: oneearthenviro@gmail.com

For OneEarth Enviro Labs



[Signature]

Authorised Signatory
(Murlidhar S M, Quality Manager)

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Report No: T/2019/0240

Report Date: 08/11/2019

SOURCE EMISSION ANALYSIS REPORT

Name of the Industry
Address

M/s Ambuja Cements India Ltd.,
Panambur Unit, Near NMPT, Mangalore

Sample Collected By

One Earth Enviro Labs

Sampling Location (Stack ID)

S1-Bag Filter1, S2- Bag Filter2, S3-DG1500 KVA

Date of Sampling

06/11/2019

Analysis Start Date

07/11/2019

Date of Sample Receipt

06/11/2019

Analysis End Date

07/11/2019

Sample Details

Stack Monitoring

Stack ID	S1	S2	S3	Protocol
Date & Time	6/11 1500	6/11 1545	6/11 1635	--
Fuel Used	Current	Current	Diesel	--
Temperature °C	39	39	124	--
Velocity (m/s)	5.77	5.62	6.16	--
Height (m)	20	20	30	--
Diameter (m)	0.45	0.45	0.50	--
Discharge Rate Nm ³ /Hr	3300.15	3215.85	4350.41	IS:11255.Part 1
Emission Rate Kg/Hr	0.2295	0.1559	0.2266	IS:11255.Part 1

Parameter	Unit	S1	RESULTS S2	S3	KSPCB Limits	Protocol
(S)PM	mg/Nm ³	69.55	48.47	52.08	150	IS:11255.Part 1
SO ₂	mg/Nm ³	0	0	10	NS	FGA
NO ₂	mg/Nm ³	0	0	50	NS	FGA
*CO	mg/Nm ³	0	0	119	NS	FGA
O ₂	%	20.90	20.90	16.70	NS	FGA
CO ₂	%	0.00	0.00	3.10	NS	FGA
*NMHC	ppm	0	0	7	NS	FGA

*Not Under NABL Scope / Range** (S)PM-Suspended Particulate Matter NS-Not Specified FGA-Flue Gas Analyzer

Opinion

As per Standards mentioned in the report.

Report Status:- The sample meets the requirement as per relevant standard w.r.t above tested parameters.



OneEarth Enviro Labs
1st Floor, KSIA Building
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Email: oneearthenviro@gmail.com

For OneEarth Enviro Labs

Authorised Signatory
(Murlidhar S M, Quality Manager)

Note: 1. The report shall not be reproduced wholly or in part, cannot be used as evidence in court of law. 2. The above result pertains only to the samples collected/received. 3. Samples will be destroyed after fifteen days from the date of issue of test reports unless otherwise specified. Perishable samples are not retained. 4. Any dispute arising out of this test report is subjected to Mangalore Jurisdiction only. 5. Total liability of our lab is limited to the invoice amount only. 6. Conformity statement will be issued as per requirement.

OneEarth Enviro Labs

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Report No: T/2019/0241

Report Date: 08/11/2019

SOURCE EMISSION ANALYSIS REPORT

Name of the Industry
Address

M/s Ambuja Cements India Ltd.,
Panambur Unit, Near NMPT, Mangalore

Sample Collected By
Sampling Location (Stack ID)
Date of Sampling
Date of Sample Receipt
Sample Details

One Earth Enviro Labs
S4-Cement Silo Top Bag Filter
06/11/2019
06/11/2019
Stack Monitoring

Analysis Start Date 07/11/2019
Analysis End Date 07/11/2019

Stack ID	S4	Protocol
Date & Time	6/11 1130	--
Fuel Used	Current	--
Temperature °C	42	--
Velocity (m/s)	5.67	--
Height (m)	63	--
Diameter (m)	0.50	--
Discharge Rate Nm ³ /Hr	3927.65	IS:11255.Part 1
Emission Rate Kg/Hr	0.2065	IS:11255.Part 1

Parameter	Unit	RESULTS S4	KSPCB Limits	Protocol
(S)PM	mg/Nm ³	52.58	150	IS:11255.Part 1
SO ₂	mg/Nm ³	0	NS	FGA
NO ₂	mg/Nm ³	0	NS	FGA
*CO	mg/Nm ³	0	NS	FGA
O ₂	%	20.90	NS	FGA
CO ₂	%	0.00	NS	FGA
*NMHC	ppm	0	NS	FGA

*Not Under NABL Scope / Range** (S)PM-Suspended Particulate Matter NS-Not Specified
FGA-Flue Gas Analyzer

Opinion

As per Standards mentioned in the report.
Report Status:- The sample meets the requirement as per relevant standard
w.r.t above tested parameters.

One Earth Enviro Labs

1 Floor, KSIA Building
Baikampady Industrial Area
MANGALORE - 575 011
Email: oneearthenviro@gmail.com



For OneEarth Enviro Labs

Authorised Signatory
(Murlidhar S M, Quality Manager)

Note: 1. The report shall not be reproduced wholly or in part, cannot be used as evidence in court of law. 2. The above result pertains only to the samples collected/received. 3. Samples will be destroyed after fifteen days from the date of issue of test reports unless

OneEarth Enviro Labs

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Certificate No. TC-7847

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Report No: T/2019/0296

Report Date: 13/12/2019

SOURCE EMISSION ANALYSIS REPORT

Name of the Industry
Address

M/s Ambuja Cements India Ltd.,
Panambur Unit, Near NMPT, Mangalore

Sample Collected By

One Earth Enviro Labs

Sampling Location (Stack ID)

S1-DG, S2- Bag Filter1, S3- Bag Filter2

Date of Sampling

11/12/2019

Analysis Start Date

11/12/2019

Date of Sample Receipt

11/12/2019

Analysis End Date

13/12/2019

Sample Details

Stack Monitoring

Stack ID	S1	S2	S3	Protocol
Date & Time	11/12 1055	11/12 1135	11/12 1245	--
Fuel Used	Current	Current	Diesel	--
Temperature °C	112	45	48	--
Velocity (m/s)	5.77	5.04	5.25	--
Height (m)	20	20	30	--
Diameter (m)	0.45	0.45	0.50	--
Discharge Rate Nm ³ /Hr	3301.01	2884.19	3707.83	IS:11255.Part 1
Emission Rate Kg/Hr	0.3100	0.2015	0.2620	IS:11255.Part 1

Parameter	Unit	RESULTS			KSPCB Limits	Protocol
		S1	S2	S3		
(S)PM	mg/Nm ³	93.92	69.88	70.66	150	IS:11255.Part 1
SO ₂	mg/Nm ³	8	0	0	NS	FGA
NO ₂	mg/Nm ³	38	0	0	NS	FGA
*CO	mg/Nm ³	109	0	0	NS	FGA
O ₂	%	16.20	20.90	20.90	NS	FGA
CO ₂	%	3.10	0.00	0.00	NS	FGA
*NMHC	ppm	6	0	0	NS	FGA

*Not Under NABL Scope / Range** (S)PM-Suspended Particulate Matter NS-Not Specified FGA-Flue Gas Analyzer

Opinion

As per Standards mentioned in the report.

Report Status:- The sample meets the requirement as per relevant standard w.r.t above tested parameters.



For OneEarth Enviro Labs

Authorised Signatory
(Murlidhar S M, Quality Manager)

Note: 1. The report shall not be reproduced wholly or in part, cannot be used as evidence in court of law. 2. The above result pertains only to the samples collected/received. 3. Samples will be destroyed after fifteen days from the date of issue of test reports unless otherwise specified. Perishable samples are not retained. 4. Any dispute arising out of this test report is subjected to Mangalore

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Certificate No. TC-7847

NABL ISO/IEC 17025:2005

ISO 9001:2015 | OHSAS 18001:2007 CERTIFIED | MOEF & CC RECOGNISED

Report No: T/2019/0296B

Report Date: 13/12/2019

SOURCE EMISSION ANALYSIS REPORT

Name of the Industry Address M/s Ambuja Cements India Ltd.,
Panambur Unit, Near NMPT, Mangalore

Sample Collected By One Earth Enviro Labs
Sampling Location (Stack ID) S4-Cement Silo Top Bag Filter
Date of Sampling 11/12/2019 Analysis Start Date 11/12/2019
Date of Sample Receipt 11/12/2019 Analysis End Date 13/12/2019
Sample Details Stack Monitoring

Stack ID	S4	Protocol
Date & Time	11/12 1330	--
Fuel Used	Current	--
Temperature °C	46	--
Velocity (m/s)	5.28	--
Height (m)	63	--
Diameter (m)	0.50	--
Discharge Rate Nm ³ /Hr	3658.66	IS:11255.Part 1
Emission Rate Kg/Hr	0.2475	IS:11255.Part 1

Parameter	Unit	RESULTS S4	KSPCB Limits	Protocol
(S)PM	mg/Nm ³	67.65	150	IS:11255.Part 1
SO ₂	mg/Nm ³	0	NS	FGA
NO ₂	mg/Nm ³	0	NS	FGA
*CO	mg/Nm ³	0	NS	FGA
O ₂	%	20.90	NS	FGA
CO ₂	%	0.00	NS	FGA
*NMHC	ppm	0	NS	FGA

*Not Under NABL Scope / Range** (S)PM-Suspended Particulate Matter NS-Not Specified
FGA-Flue Gas Analyzer

Opinion	As per Standards mentioned in the report. Report Status:- The sample meets the requirement as per relevant standard w.r.t above tested parameters.
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For OneEarth Enviro Labs

Authorised Signatory
(Murlidhar S M, Quality Manager)

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OEL/A/4709/03



Certificate No. TC-7847

NABL ISO/IEC 17025:2005

ISO 9001:2015 | OHSAS 18001:2007 CERTIFIED | MOEF & CC RECOGNISED

Report No: T/2020/0016B

Report Date: 22/01/2020

SOURCE EMISSION ANALYSIS REPORT

Name of the Industry
Address

M/s Ambuja Cements India Ltd.,
Panambur Unit, Near NMPT, Mangalore

Sample Collected By

One Earth Enviro Labs

Sampling Location (Stack ID)

S2- Bag Filter1 S3- Bag Filter2, S4- DG,

Date of Sampling

18/01/2020

Analysis Start Date

20/01/2020

Date of Sample Receipt

18/01/2020

Analysis End Date

22/01/2020

Sample Details

Stack Monitoring

Stack ID	S2	S3	S4	Protocol
Date & Time	18/1 1030	18/1 1100	18/1 1000	--
Fuel Used	Electrical	Diesel	Current	--
Temperature °C	41	42	137	--
Velocity (m/s)	5.41	5.83	6.93	--
Height (m)	20	30	20	--
Diameter (m)	0.45	0.50	0.45	--
Discharge Rate Nm³/Hr	3095.62	4117.74	3965.49	IS:11255.Part 1
Emission Rate Kg/Hr	0.3051	0.2900	0.2996	IS:11255.Part 1

Parameter	Unit	RESULTS			KSPCB Limits	Protocol
		S2	S3	S4		
(S)PM	mg/Nm³	98.57	70.42	75.55	150	IS:11255.Part 1
SO₂	mg/Nm³	0	0	16	NS	FGA
NO₂	mg/Nm³	0	0	50	NS	FGA
*CO	mg/Nm³	0	0	122	NS	FGA
O₂	%	20.90	20.90	16.70	NS	FGA
CO₂	%	0.00	0.00	3.10	NS	FGA
*NMHC	ppm	0	0	108	NS	FGA

*Not Under NABL Scope / Range** (S)PM-Suspended Particulate Matter NS-Not Specified FGA-Flue Gas Analyzer

Opinion

As per Standards mentioned in the report.

Report Status:- The sample meets the requirement as per relevant standard w.r.t above tested parameters.



For OneEarth Enviro Labs

(Signature)

Authorised Signatory
(Murlidhar S M, Quality Manager)

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Certificate No. TC-7847

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ISO 9001:2015 | OHSAS 18001:2007 CERTIFIED | MOEF & CC RECOGNISED

Report No: T/2020/0016A

Report Date: 22/01/2020

SOURCE EMISSION ANALYSIS REPORT

Name of the Industry
Address

M/s Ambuja Cements India Ltd.,
Panambur Unit, Near NMPT, Mangalore

Sample Collected By

One Earth Enviro Labs

Sampling Location (Stack ID)

S1-Cement Silo Top Bag Filter

Date of Sampling

18/01/2020

Analysis Start Date

20/01/2020

Date of Sample Receipt

18/01/2020

Analysis End Date

22/01/2020

Sample Details

Stack Monitoring

Stack ID	S1	Protocol
Date & Time	18/1 1000	--
Fuel Used	Electrical	--
Temperature °C	40	--
Velocity (m/s)	6.07	--
Height (m)	63	--
Diameter (m)	0.50	--
Discharge Rate Nm ³ /Hr	4205.56	IS:11255.Part 1
Emission Rate Kg/Hr	0.2692	IS:11255.Part 1

Parameter	Unit	RESULTS S1	KSPCB Limits	Protocol
(S)PM	mg/Nm ³	64.01	150	IS:11255.Part 1
SO ₂	mg/Nm ³	0	NS	FGA
NO ₂	mg/Nm ³	0	NS	FGA
*CO	mg/Nm ³	0	NS	FGA
O ₂	%	20.90	NS	FGA
CO ₂	%	0	NS	FGA
*NMHC	ppm	0	NS	FGA

*Not Under NABL Scope / Range** (S)PM-Suspended Particulate Matter NS-Not Specified
FGA-Flue Gas Analyzer

Opinion

As per Standards mentioned in the report.

Report Status:- The sample meets the requirement as per relevant standard
w.r.t above tested parameters.



For OneEarth Enviro Labs

Authorised Signatory
(Murlidhar S M, Quality Manager)

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Certificate No. TC-7847

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ISO 9001:2015

OHSAS 18001:2007 CERTIFIED

MOEF & CC RECOGNISED

Report No: T/2020/030B

Report Date: 15/02/2020

SOURCE EMISSION ANALYSIS REPORT

Name of the Industry
Address

M/s Ambuja Cements India Ltd.,
Panambur Unit, Near NMPT, Mangalore

Sample Collected By

One Earth Enviro Labs

Sampling Location (Stack ID)

S2- Bag Filter1 S3- Bag Filter2, S4- DG

Date of Sampling

12/02/2020

Analysis Start Date

12/02/2020

Date of Sample Receipt

12/02/2020

Analysis End Date

15/02/2020

Sample Details

Stack Monitoring

Stack ID	S2	S3	S4	Protocol
Date & Time	12/2 1340	12/2 1455	12/2 1420	--
Fuel Used	Electrical	Diesel	Current	--
Temperature °C	47	49	118	--
Velocity (m/s)	5.14	5.40	6.30	--
Height (m)	20	30	20	--
Diameter (m)	0.45	0.50	0.45	--
Discharge Rate Nm³/Hr	2940.29	3815.37	3605.99	IS:11255.Part 1
Emission Rate Kg/Hr	0.1758	0.2589	0.1827	IS:11255.Part 1

Parameter	Unit	S2	S3	S4	KSPCB Limits	Protocol
(S)PM	mg/Nm³	59.78	67.85	50.66	150	IS:11255.Part 1
SO₂	mg/Nm³	0	0	15	NS	FGA
NO₂	mg/Nm³	0	0	37	NS	FGA
*CO	mg/Nm³	0	0	107	NS	FGA
O₂	%	20.90	20.90	16.80	NS	FGA
CO₂	%	0.00	0.00	3.20	NS	FGA
*NMHC	ppm	0	0	4	NS	FGA

*Not Under NABL Scope / Range** (S)PM-Suspended Particulate Matter NS-Not Specified FGA-Flue Gas Analyzer

Opinion

As per Standards mentioned in the report.

Report Status:- The sample meets the requirement as per relevant standard w.r.t above tested parameters.



For OneEarth Enviro Labs

(Signature)

Authorised Signatory
(Murlidhar S M, Quality Manager)

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Report No: T/2020/030A

Report Date: 15/02/2020

SOURCE EMISSION ANALYSIS REPORT

Name of the Industry
Address

M/s Ambuja Cements India Ltd.,
Panambur Unit, Near NMPT, Mangalore

Sample Collected By
Sampling Location (Stack ID)

One Earth Enviro Labs
S1-Cement Silo Top Bag Filter

Date of Sampling

12/02/2020

Analysis Start Date

13/02/2020

Date of Sample Receipt

12/02/2020

Analysis End Date

15/02/2020

Sample Details

Stack Monitoring

Stack ID	S1	Protocol
Date & Time	12/2 1535	--
Fuel Used	Electrical	--
Temperature °C	49	--
Velocity (m/s)	5.22	--
Height (m)	63	--
Diameter (m)	0.50	--
Discharge Rate Nm³/Hr	3613.30	IS:11255.Part 1
Emission Rate Kg/Hr	0.1520	IS:11255.Part 1

Parameter	Unit	RESULTS S1	KSPCB Limits	Protocol
(S)PM	mg/Nm³	42.08	150	IS:11255.Part 1
SO₂	mg/Nm³	0	NS	FGA
NO₂	mg/Nm³	0	NS	FGA
*CO	mg/Nm³	0	NS	FGA
O₂	%	20.90	NS	FGA
CO₂	%	0.00	NS	FGA
*NMHC	ppm	0	NS	FGA

*Not Under NABL Scope / Range** (S)PM-Suspended Particulate Matter NS-Not Specified
FGA-Flue Gas Analyzer

Opinion

As per Standards mentioned in the report.
Report Status:- The sample meets the requirement as per relevant standard
w.r.t above tested parameters.



For OneEarth Enviro Labs

Authorised Signatory
(Murlidhar S M, Quality Manager)

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MOEF & CC RECOGNISED

Report No: T/2020/059A

Report Date: 23/03/2020

SOURCE EMISSION ANALYSIS REPORT

Name of the Industry
Address

M/s Ambuja Cements India Ltd.,
Panambur Unit, Near NMPT, Mangalore

Sample Collected By
Sampling Location (Stack ID)

One Earth Enviro Labs
S1-Cement Silo Top Bag Filter

Date of Sampling

19/03/2020

Analysis Start Date

19/03/2020

Date of Sample Receipt

19/03/2020

Analysis End Date

21/03/2020

Sample Details

Stack Monitoring

Stack ID	S1	Protocol
Date & Time	19/3 1400	--
Fuel Used	Electrical	--
Temperature °C	44	--
Velocity (m/s)	5.75	--
Height (m)	63	--
Diameter (m)	0.50	--
Discharge Rate Nm ³ /Hr	3980.31	IS:11255.Part 1
Emission Rate Kg/Hr	0.2603	IS:11255.Part 1

Parameter	Unit	RESULTS S1	KSPCB Limits	Protocol
(S)PM	mg/Nm ³	65.39	150	IS:11255.Part 1
SO ₂	mg/Nm ³	0	NS	FGA
NO ₂	mg/Nm ³	0	NS	FGA
*CO	mg/Nm ³	0	NS	FGA
O ₂	%	20.90	NS	FGA
CO ₂	%	0.00	NS	FGA
*NMHC	ppm	0	NS	FGA

*Not Under NABL Scope / Range** (S)PM-Suspended Particulate Matter NS-Not Specified
FGA-Flue Gas Analyzer

Opinion

As per Standards mentioned in the report.
Report Status:- The sample meets the requirement as per relevant standard
w.r.t above tested parameters.



For OneEarth Enviro Labs

Authorised Signatory
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MOEF & CC RECOGNISED

Report No: T/2020/0059B

Report Date: 23/03/2020

SOURCE EMISSION ANALYSIS REPORT

Name of the Industry
Address

M/s Ambuja Cements India Ltd.,
Panambur Unit, Near NMPT, Mangalore

Sample Collected By

One Earth Enviro Labs

Sampling Location (Stack ID)

S2- Bag Filter1 S3- Bag Filter2, S4- DG

Date of Sampling

19/03/2020

Analysis Start Date

19/03/2020

Date of Sample Receipt

19/03/2020

Analysis End Date

21/03/2020

Sample Details

Stack Monitoring

Stack ID	S2	S3	S4	Protocol
Date & Time	19/3 1100	19/3 1150	19/3 1240	--
Fuel Used	Electrical	Diesel	Current	--
Temperature °C	47	46	102	--
Velocity (m/s)	5.93	5.64	6.54	--
Height (m)	20	30	20	--
Diameter (m)	0.45	0.50	0.45	--
Discharge Rate Nm³/Hr	3395.15	3984.00	3740.42	IS:11255.Part 1
Emission Rate Kg/Hr	0.2052	0.2114	0.2069	IS:11255.Part 1

Parameter	Unit	RESULTS			KSPCB Limits	Protocol
		S2	S3	S4		
(S)PM	mg/Nm³	60.44	53.07	55.32	150	IS:11255.Part 1
SO₂	mg/Nm³	0	0	5	NS	FGA
NO₂	mg/Nm³	0	0	56	NS	FGA
*CO	mg/Nm³	0	0	113	NS	FGA
O₂	%	20.90	20.90	17.10	NS	FGA
CO₂	%	0.00	0.00	3.20	NS	FGA
*NMHC	ppm	0	0	6	NS	FGA

*Not Under NABL Scope / Range** (S)PM-Suspended Particulate Matter NS-Not Specified FGA-Flue Gas Analyzer

Opinion

As per Standards mentioned in the report.
Report Status:- The sample meets the requirement as per relevant standard w.r.t above tested parameters.



For OneEarth Enviro Labs

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