

Ambuja Cement

Ref: ACL/MNG/HR- 149-2020

Date: 23rd Nov, 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 April 2020 to September 2020.
2. Monitoring report of stack emission, noise, ambient air quality analysis for the period April 2020 to September 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



[Signature] 23/11/2020
Regional Office
Karnataka State Pollution Control Board
Plot No.10-'B',
Raikampady Industrial Area,
Mangaluru-575011.

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

AMBUJA CEMENTS LIMITED
NH-66, No. 35, New Mangalore Port Trust, Panambur Beach Road, Panambur, Mangalore- 575010
Tel. No.: 0824-2409086, email ID: bct.mangalore@ambujacement.com
Regd.Off.: P.O. Ambuja Nagar, Taluka - Kodinar, Dist.-Gir Somnath, Gujarat - 362715
CIN No. L26942GJ1981PLC004717, Website address: www.ambujacement.com.

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

Ambuja Cements Limited - Unit Mangalore


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

| 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, |
| | 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 fo 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 Parisad / 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

OneEarth Enviro Labs

OEL/A/F/08/05

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

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

Report No: A/2020/0266

Report Date : 02/10/2020

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 1- Security Office ,2- Maintenance Buildings,3- Silo Bottom Area

Date of Sampling 30/09/2020 Analysis Start Date 02/10/2020
Date of Sample Receipt 30/09/2020 Analysis End Date 02/10/2020

Sampling Details Ambient Air Quality Monitoring for 8 Hrs

Humidity % 67.10 Temp °C 31°C Pressure mmHg 756.21

| Sl. No | Date & Time | 30/09/2020 | | | NAAQ STD | Protocol |
|--------|-----------------|----------------|-----------|-----------|----------|-------------------|
| | | 0900-1700 | 0910-1710 | 0920-1720 | | |
| | Location | 1 | 2 | 3 | | |
| | Parameters | Result (µg/m³) | | | | |
| 1 | PM2.5 | 22.62 | 18.00 | 9.87 | 60 | USEPA QA Doc 2.12 |
| 2 | PM10 | 35.74 | 68.74 | 31.95 | 100 | IS 5182 : Part 23 |
| 3 | SPM | 5.19 | -- | 13.77 | 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.

*** End of the Report ***



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.

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OEL/A/E/08/05



Certificate No. TC-7047

NABL ISO/IEC 17025:2005

ISO 9001:2015

OHSAS 18001:2007 CERTIFIED

MOEF & CC RECOGNISED

Report No: A/2020/0221,222,223

Report Date : 31/08/2020

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 221- Security Office , 222- Maintenance Buildings, 223- Silo Bottom Area

Date of Sampling 29/08/2020 Analysis Start Date 31/08/2020
Date of Sample Receipt 29/08/2020 Analysis End Date 31/08/2020

Sampling Details Ambient Air Quality Monitoring for 8 Hrs

Humidity % 68.10 Temp °C 32°C Pressure mmHg 756.14

| Sl. No | Date & Time | 29/08/2020 | | | NAAQ STD | Protocol |
|--------|-----------------|----------------|-----------|-----------|----------|-------------------|
| | | 0900-1700 | 0910-1710 | 0920-1720 | | |
| | Location | A-221 | A-222 | A-223 | | |
| | Parameters | Result (µg/m³) | | | | |
| 1 | PM2.5 | 31.12 | 43.37 | 34.37 | 60 | USEPA QA Doc 2.12 |
| 2 | PM10 | 65.13 | 56.13 | 57.49 | 100 | IS 5182 : Part 23 |
| 3 | SPM | 10.88 | 20.76 | -- | 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



[Signature]

Authorized Signatory
(Murlidhar S M, Quality Manager)

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OEL/A/1/08/05



Certificate No. TC-7017

NABL ISO/IEC 17025:2005

ISO 9001:2015

OHSAS 18001:2007 CERTIFIED

MOEF & CC RECOGNISED

Report No: A/2020/0195,196,197

Report Date:27/07/2020

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

195- Security Office , 196- Maintenance Buildings, 197- Silo Bottom Area

Date of Sampling

24/07/2020

Analysis Start Date

27/07/2020

Date of Sample Receipt

24/07/2020

Analysis End Date

27/07/2020

Sampling Details

Ambient Air Quality Monitoring for 8 Hrs

Humidity %

70.10

Temp °C

30°C

Pressure mmHg

752.09

| Sl. No | Date & Time | 24/07/2020 | | | NAAQ STD | Protocol |
|--------|-----------------|-------------------------------------|-----------|-----------|----------|-------------------|
| | | 0900-1700 | 0910-1710 | 0920-1720 | | |
| | Location | A-195 | A-196 | A-197 | | |
| | Parameters | Result ($\mu\text{g}/\text{m}^3$) | | | | |
| 1 | PM2.5 | 19.62 | 25.00 | 29.99 | 60 | USEPA QA Doc 2.12 |
| 2 | PM10 | 54.11 | 33.86 | 53.74 | 100 | IS 5182 : Part 23 |
| 3 | SPM | --- | 16.38 | 36.27 | 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-7347

NABL ISO/IEC 17025:2005

ISO 9001:2015

OHSAS 18001:2007 CERTIFIED

MOEF & CC RECOGNISED

Report No: A/2020/0170,171,172

Report Date:26/06/2020

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 170- Security Gate , 171- Maintenance Office,
172- Silo Bottom Area

Date of Sampling 23/06/2020 Analysis Start Date 25/06/2020
Date of Sample Receipt 23/06/2020 Analysis End Date 25/06/2020
Sampling Details Ambient Air Quality Monitoring for 8 Hrs

Humidity % 70.20 Temp °C 31°C Pressure mmHg 759.96

| Sl. No | Date & Time | 23/06/2020 | | | NAAQ STD | Protocol |
|--------|-----------------|----------------|-----------|-----------|----------|-------------------|
| | | 0900-1700 | 0910-1710 | 0920-1720 | | |
| | Location | A170 | A172 | A17 | | |
| | Parameters | Result (µg/m³) | | | | |
| 1 | PM2.5 | 48.12 | 19.87 | 14.27 | 60 | USEPA QA Doc 2.12 |
| 2 | PM10 | 49.69 | 61.65 | 87.73 | 100 | IS 5182 : Part 23 |
| 3 | SPM | 35.70 | 4.97 | -- | 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 -9.4µg/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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OEL/A/F/08/05



Certificate No. TG-7047

NABL ISO/IEC 17025:2005

ISO 9001:2015

OHSAS 18001:2007 CERTIFIED

MOEF & CC RECOGNISED

Report No: A/2020/0139,140,141

Report Date:29/05/2020

AMBIENT AIR QUALITY ANALYSIS REPORT

Name
Address

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

Sample Collected By
Sampling Location

OneEarth Enviro Labs
139- Security Gate , 140- Maintenance Office,
141- Silo Bottom Area

Date of Sampling

28/05/2020

Analysis Start Date

29/05/2020

Date of Sample Receipt

28/05/2020

Analysis End Date

29/05/2020

Sampling Details

Ambient Air Quality Monitoring for 8 Hrs

Humidity %

71.20

Temp °C

33°C

Pressure mmHg

759.96

| Sl. No | Date & Time | 28/05/2020 | | | NAAQ STD | Protocol |
|--------|-----------------|----------------|-----------|-----------|----------|-------------------|
| | Location | 0900-1700 | 0910-1710 | 0920-1720 | | |
| | | A139 | A140 | A141 | | |
| | Parameters | Result (µg/m³) | | | | |
| 1 | PM2.5 | 13.50 | 35.12 | 17.12 | 60 | USEPA QA Doc 2.12 |
| 2 | PM10 | 38.74 | 56.36 | 54.24 | 100 | IS 5182 : Part 23 |
| 3 | SO ₂ | BDL | BDL | BDL | 80 | IS 5182 : Part 2 |
| 4 | 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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OneEarth Enviro Labs

OEL/A/F/10/03

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

Report No: N/2020/0128
Report Date: 02/10/2020

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 in Gate L2-Near Out Gate

Date of Sampling
Date of Sample Receipt
Sampling Details
Method Adopted

30/09/2020
On site
Noise Level Monitoring Day Time
IS:9989.1981

| SL NO | Sample Location | Date | Duration | Parameters | | | | | | KSPCB Limits |
|----------|--------------------|------------|-----------|------------|------|------|-----|-----|-----|-----------------|
| | | | | Min | Max | Leq | L90 | L50 | L10 | |
| 1 | L1 | 30/09/2020 | 1140-1145 | 37.1 | 67.8 | 65.2 | -- | -- | -- | 75dB |
| 2 | L2 | 30/09/2020 | 1150-1155 | 36.3 | 66.4 | 64.1 | -- | -- | -- | |

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.

*** End of the Report ***

For OneEarth Enviro Labs



Authorised Signatory
(Murlidhar S M, Quality Manager)

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OneEarth Enviro Labs

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Email: oneearthenviro@gmail.com Website: oneearthenvirolabs.com

OEL/A/E/10/03



Certificate No. TC-7847

NABL ISO/IEC 17025:2005

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

Report No: N/2020/0106

Report Date: 31/08/2020

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 L2-Near In Gate

Date of Sampling
Date of Sample Receipt
Sampling Details
Method Adopted
29/08/2020
On site
Noise Level Monitoring Day Time
IS:9989.1981

| SL NO | Sample Location | Date | Duration | Parameters | | | | | | KSPCB Limits |
|----------|--------------------|------------|-----------|------------|------|------|-----|-----|-----|-----------------|
| | | | | Min | Max | Leq | L90 | L50 | L10 | |
| 1 | L1 | 29/08/2020 | 1400-1405 | 35.7 | 68.1 | 65.4 | -- | -- | -- | 75dB |
| 2 | L2 | 29/08/2020 | 1410-1415 | 37.1 | 70.2 | 68.2 | -- | -- | -- | |

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)

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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/2020/094

Report Date: 27/07/2020

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 L2-Near In Gate
Date of Sampling 24/07/2020
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 | 24/07/2020 | 1300-1305 | 40.6 | 68.2 | 66.4 | -- | -- | -- | 75dB |
| 2 | L2 | 24/07/2020 | 1310-1315 | 41.2 | 69.3 | 67.1 | -- | -- | -- | |

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.

For OneEarth Enviro Labs



Authorised Signatory
(Murlidhar S M, Quality Manager)

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Certificate No. TC-7847

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OHSAS 18001:2007 CERTIFIED

MOEF & CC RECOGNISED

Report No: N/2020/082
Report Date: 26/06/2020

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 L2-Near Maintenance Building

Date of Sampling
Date of Sample Receipt
Sampling Details
Method Adopted

23/06/2020
On site
Noise Level Monitoring Day Time
IS:9989.1981

| SL NO | Sample Location | Date | Duration | Parameters | | | | | | KSPCB |
|----------|--------------------|------------|-----------|------------|------|------|-----|-----|-----|--------|
| | | | | Min | Max | Leq | L90 | L50 | L10 | Limits |
| 1 | L1 | 23/06/2020 | 1310-1315 | 41.2 | 67.1 | 65.2 | -- | -- | -- | 75dB |
| 2 | L2 | 23/06/2020 | 1310-1315 | 40.6 | 64.4 | 66.8 | -- | -- | -- | |

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)

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Certificate No. TC-7947

NABL ISO/IEC 17025:2005

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OHSAS 18001:2007 CERTIFIED

MOEF & CC RECOGNISED

Report No: N/2020/064

Report Date: 29/05/2020

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
Date of Sampling
Date of Sample Receipt
Sampling Details
Method Adopted
OneEarth Enviro Labs
L1- Near Out Gate Compound
28/05/2020
On site
Noise Level Monitoring Day Time
IS:9989.1981

| SL NO | Sample Location | Date | Duration | Parameters | | | | | | KSPCB Limits |
|-------|-----------------|------------|-----------|------------|------|------|-----|-----|-----|--------------|
| | | | | Min | Max | Leq | L90 | L50 | L10 | |
| 1 | L1 | 28/05/2020 | 1330-1335 | 41.2 | 69.1 | 67.2 | -- | -- | -- | 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)



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OEL/A/F/09/03

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

Report No: T/2020/0139B
Report Date: 02/10/2020

SOURCE EMISSION ANALYSIS REPORT

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

Sample Collected By One Earth Enviro Labs
Sampling Location (Stack ID) S2- Bag Filter1 S3- Bag Filter2, S4- Cement Silo Top Bag Filter

Date of Sampling 30/09/2020 Analysis Start Date 01/10/2020
Date of Sample Receipt 30/09/2020 Analysis End Date 01/10/2020
Sample Details Stack Monitoring

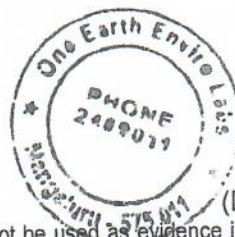
| Stack ID | S2 | S3 | S4 | Protocol |
|----------------|------------|------------|------------|----------|
| Date & Time | 30/9 1000 | 30/9 1030 | 30/9 1100 | -- |
| Fuel Used | Electrical | Electrical | Electrical | -- |
| Temperature °C | 46 | 47 | 46 | -- |
| Height (m) | 20 | 20 | 20 | -- |
| Diameter (m) | 0.45 | 0.50 | 0.50 | -- |

| Parameter | Unit | S2 | S3 | S4 | KSPCB Limits | Protocol |
|-----------------|---------------------|---------|---------|---------|--------------|-----------------|
| Velocity | (m/s) | 5.19 | 5.15 | 5.08 | -- | IS:11255.Part 3 |
| Discharge Rate | Nm ³ /Hr | 2970.43 | 3635.38 | 3514.99 | -- | IS:11255.Part 3 |
| Emission Rate | Kg/Hr | 0.1928 | 0.2764 | 0.2861 | -- | IS:11255.Part 3 |
| (S)PM | mg/Nm ³ | 64.91 | 76.03 | 81.39 | 150 | IS:11255.Part 1 |
| SO ₂ | mg/Nm ³ | 0 | 0 | 0 | NS | FGA |
| NO ₂ | mg/Nm ³ | 0 | 0 | 0 | NS | FGA |
| CO | mg/Nm ³ | 0 | 0 | 0 | NS | FGA |
| O ₂ | % | 20.90 | 20.90 | 20.80 | NS | FGA |
| CO ₂ | % | 0.00 | 0.00 | 0.00 | NS | FGA |
| NMHC | ppm | 0 | 0 | 0 | NS | FGA |

(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. |
|---------|---|

** End of the Report**



For OneEarth Enviro Labs

Authorised Signatory
(Murlidhar S M, Quality Manager)

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OneEarth Enviro Labs

OEL/A/F/09/03

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

Report No: T/2020/0139A

Report Date : 02/10/2020

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)
Date of Sampling
Date of Sample Receipt
Sample Details

One Earth Enviro Labs
S1-DG
30/09/2020
30/09/2020
Stack Monitoring

Analysis Start Date 01/10/2020
Analysis End Date 01/10/2020

| Stack ID | S1 | Protocol |
|----------------|-----------|----------|
| Date & Time | 30/9 1130 | -- |
| Fuel Used | Diesel | -- |
| Temperature °C | 98 | -- |
| Height (m) | 20 | -- |
| Diameter (m) | 0.45 | -- |

| Parameter | Unit | RESULTS S1 | KSPCB Limits | Protocol |
|-----------------|---------------------|---------------|-----------------|-----------------|
| Velocity | (m/s) | 5.52 | -- | IS:11255.Part 3 |
| Discharge Rate | Nm ³ /Hr | 3156.50 | -- | IS:11255.Part 3 |
| Emission Rate | Kg/Hr | 0.1508 | -- | IS:11255.Part 3 |
| (S)PM | mg/Nm ³ | 47.76 | 150 | IS:11255.Part 1 |
| SO ₂ | mg/Nm ³ | 20 | NS | FGA |
| NO ₂ | mg/Nm ³ | 29 | NS | FGA |
| CO | mg/Nm ³ | 130 | NS | FGA |
| O ₂ | % | 17.40 | NS | FGA |
| CO ₂ | % | 3.10 | NS | FGA |
| NMHC | ppm | 7 | NS | FGA |

(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. |
|---------|---|

** End of the Report **



For OneEarth Enviro Labs

Authorised Signatory
(Murlidhar S M, Quality Manager)

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

Report No: T/2020/0115B

Report Date: 31/08/2020

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
S2- Bag Filter1 S3- Bag Filter2, S4- Cement Silo Top Bag Filter

Date of Sampling

29/08/2020

Analysis Start Date

31/08/2020

Date of Sample Receipt

29/08/2020

Analysis End Date

31/08/2020

Sample Details

Stack Monitoring

| Stack ID | S2 | S3 | S4 | Protocol |
|------------------------------------|------------|------------|------------|-----------------|
| Date & Time | 29/8 1050 | 29/8 1140 | 29/8 1300 | -- |
| Fuel Used | Electrical | Electrical | Electrical | -- |
| Temperature °C | 46 | 46 | 45 | -- |
| Velocity (m/s) | 5.41 | 5.25 | 5.27 | -- |
| Height (m) | 20 | 30 | 63 | -- |
| Diameter (m) | 0.45 | 0.50 | 0.50 | -- |
| Discharge Rate Nm ³ /Hr | 3097.25 | 3709.60 | 3650.64 | IS:11255.Part 3 |
| Emission Rate Kg/Hr | 0.2209 | 0.3034 | 0.3468 | IS:11255.Part 3 |

| Parameter | Unit | S2 | RESULTS S3 | S4 | KSPCB Limits | Protocol |
|-----------------|--------------------|-------|---------------|-------|-----------------|-----------------|
| (S)PM | mg/Nm ³ | 71.32 | 81.80 | 94.99 | 150 | IS:11255.Part 1 |
| SO ₂ | mg/Nm ³ | 0 | 0 | 0 | NS | FGA |
| NO ₂ | mg/Nm ³ | 0 | 0 | 0 | NS | FGA |
| CO | mg/Nm ³ | 0 | 0 | 0 | NS | FGA |
| O ₂ | % | 20.90 | 20.90 | 20.90 | NS | FGA |
| CO ₂ | % | 0.00 | 0.00 | 0.00 | NS | FGA |
| NMHC | ppm | 0 | 0 | 0 | NS | FGA |

(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.

** End of the Report**



For OneEarth Enviro Labs

Authorised Signatory
(Murlidhar S M, Quality Manager)

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OEL/A/F/09/03

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

Report No: T/2020/0115A

Report Date : 31/08/2020

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)
Date of Sampling
Date of Sample Receipt
Sample Details

One Earth Enviro Labs
S1-DG
29/08/2020
29/08/2020
Stack Monitoring

Analysis Start Date 31/08/2020
Analysis End Date 31/08/2020

| Stack ID | S1 | Protocol |
|------------------------------------|-----------|-----------------|
| Date & Time | 29/8 1330 | --- |
| Fuel Used | Diesel | --- |
| Temperature °C | 107 | --- |
| Velocity (m/s) | 5.98 | --- |
| Height (m) | 20 | --- |
| Diameter (m) | 0.45 | --- |
| Discharge Rate Nm ³ /Hr | 3420.23 | IS:11255.Part 3 |
| Emission Rate Kg/Hr | 0.2599 | IS:11255.Part 3 |

| Parameter | Unit | RESULTS S1 | KSPCB Limits | Protocol |
|-----------------|--------------------|---------------|-----------------|-----------------|
| (S)PM | mg/Nm ³ | 75.99 | 150 | IS:11255.Part 1 |
| SO ₂ | mg/Nm ³ | 15 | NS | FGA |
| NO ₂ | mg/Nm ³ | 37 | NS | FGA |
| CO | mg/Nm ³ | 135 | NS | FGA |
| O ₂ | % | 17.20 | NS | FGA |
| CO ₂ | % | 3.10 | NS | FGA |
| NMHC | ppm | 7 | NS | FGA |

(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. |
|---------|---|

** End of the Report **



For OneEarth Enviro Labs

Authorised Signatory
(Murlidhar S M, Quality Manager)

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Certificate No. TC-7947

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ISO 9001:2015

OHSAS 18001:2007 CERTIFIED

MOEF & CC RECOGNISED

Report No: 172020/0102A

Report Date: 27/07/2020

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)
Date of Sampling
Date of Sample Receipt
Sample Details

One Earth Enviro Labs
S1-DG
24/07/2020
24/07/2020
Stack Monitoring

Analysis Start Date 27/07/2020
Analysis End Date 27/07/2020

| Stack ID | S1 | Protocol |
|-----------------------|-----------|-----------------|
| Date & Time | 24/7 1230 | --- |
| Fuel Used | Diesel | --- |
| Temperature °C | 104 | --- |
| Velocity (m/s) | 6.19 | --- |
| Height (m) | 20 | --- |
| Diameter (m) | 0.45 | --- |
| Discharge Rate Nm³/Hr | 3541.98 | IS:11255.Part 1 |
| Emission Rate Kg/Hr | 0.2024 | IS:11255.Part 1 |

| Parameter | Unit | RESULTS S1 | KSPCB Limits | Protocol |
|-----------|--------|---------------|-----------------|-----------------|
| (S)PM | mg/Nm³ | 57.14 | 150 | IS:11255.Part 1 |
| SO₂ | mg/Nm³ | 8 | NS | FGA |
| NO₂ | mg/Nm³ | 39 | NS | FGA |
| *CO | mg/Nm³ | 109 | NS | FGA |
| O₂ | % | 16.20 | NS | FGA |
| CO₂ | % | 3.20 | NS | FGA |
| *NMHC | ppm | 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

Authorised Signatory
(Murlidhar S M, Quality Manager)

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OEL/A/F/09/G3



Certificate No. TG-7847

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ISO 9001:2015

OHSAS 18001:2007 CERTIFIED

MOEF & CC RECOGNISED

Report No: 17/2020/0102B

Report Date: 27/07/2020

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- Cement Silo Top Bag Filter

Date of Sampling

24/07/2020

Analysis Start Date

27/07/2020

Date of Sample Receipt

24/07/2020

Analysis End Date

27/07/2020

Sample Details

Stack Monitoring

| Stack ID | S2 | S3 | S4 | Protocol |
|------------------------------------|------------|------------|------------|-----------------|
| Date & Time | 24/7 1030 | 24/7 1110 | 24/6 1150 | -- |
| Fuel Used | Electrical | Electrical | Electrical | -- |
| Temperature °C | 46 | 47 | 51 | -- |
| Velocity (m/s) | 5.42 | 5.79 | 6.05 | -- |
| Height (m) | 20 | 30 | 63 | -- |
| Diameter (m) | 0.45 | 0.50 | 0.50 | -- |
| Discharge Rate Nm ³ /Hr | 3101.39 | 4087.33 | 4188.73 | IS:11255,Part 1 |
| Emission Rate Kg/Hr | 0.1640 | 0.2808 | 0.2884 | IS:11255,Part 1 |

| Parameter | Unit | S2 | S3 | S4 | KSPCB Limits | Protocol |
|-----------------|--------------------|-------|-------|-------|--------------|-----------------|
| (S)PM | mg/Nm ³ | 52.87 | 68.70 | 68.85 | 150 | IS:11255,Part 1 |
| SO ₂ | mg/Nm ³ | 0 | 0 | 0 | NS | FGA |
| NO ₂ | mg/Nm ³ | 0 | 0 | 0 | NS | FGA |
| *CO | mg/Nm ³ | 0 | 0 | 0 | NS | FGA |
| O ₂ | % | 20.90 | 20.90 | 20.90 | NS | FGA |
| CO ₂ | % | 0.00 | 0.00 | 0.00 | NS | FGA |
| *NMHC | ppm | 0 | 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

[Signature]

Authorised Signatory
(Murlidhar S M, Quality Manager)

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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/E/09/03



Certificate No. TC-7847

NABL ISO/IEC 17025:2005

ISO 9001:2015

OHSAS 18001:2007 CERTIFIED

MOEF & CC RECOGNISED

Report No: T/2020/0089B

Report Date: 26/06/2020

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
S2- Bag Filter1 S3- Bag Filter2, S4- Cement Silo Top Bag Filter

Date of Sampling

23/06/2020

Analysis Start Date

24/06/2020

Date of Sample Receipt

23/06/2020

Analysis End Date

25/06/2020

Sample Details

Stack Monitoring

| Stack ID | S2 | S3 | S4 | Protocol |
|------------------------------------|------------|------------|------------|-----------------|
| Date & Time | 23/6 1030 | 23/6 1130 | 23/6 1215 | --- |
| Fuel Used | Electrical | Electrical | Electrical | --- |
| Temperature °C | 46 | 47 | 46 | --- |
| Velocity (m/s) | 5.62 | 5.72 | 5.96 | --- |
| Height (m) | 20 | 30 | 63 | --- |
| Diameter (m) | 0.45 | 0.50 | 0.50 | --- |
| Discharge Rate Nm ³ /Hr | 3215.09 | 4039.08 | 4129.09 | IS:11255.Part 1 |
| Emission Rate Kg/Hr | 0.2830 | 0.3759 | 0.1784 | IS:11255.Part 1 |

| Parameter | Unit | RESULTS | | | KSPCB Limits | Protocol |
|-----------------|--------------------|---------|-------|-------|--------------|-----------------|
| | | S2 | S3 | S4 | | |
| (S)PM | mg/Nm ³ | 88.04 | 93.06 | 43.21 | 150 | IS:11255.Part 1 |
| SO ₂ | mg/Nm ³ | 0 | 0 | 0 | NS | FGA |
| NO ₂ | mg/Nm ³ | 0 | 0 | 0 | NS | FGA |
| *CO | mg/Nm ³ | 0 | 0 | 0 | NS | FGA |
| O ₂ | % | 20.90 | 20.90 | 20.90 | NS | FGA |
| CO ₂ | % | 0.00 | 0.00 | 0.00 | NS | FGA |
| *NMHC | ppm | 0 | 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 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.

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MOEF & CC RECOGNISED

Report No: T/2020/089A

Report Date: 26/06/2020

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-DG

Date of Sampling

23/06/2020

Analysis Start Date

24/06/2020

Date of Sample Receipt

23/06/2020

Analysis End Date

25/06/2020

Sample Details

Stack Monitoring

| Stack ID | S1 | Protocol |
|------------------------------------|-----------|-----------------|
| Date & Time | 23/6 1300 | -- |
| Fuel Used | Diesel | -- |
| Temperature °C | 104 | -- |
| Velocity (m/s) | 6.38 | -- |
| Height (m) | 20 | -- |
| Diameter (m) | 0.45 | -- |
| Discharge Rate Nm ³ /Hr | 3652.10 | IS:11255.Part 1 |
| Emission Rate Kg/Hr | 0.1762 | IS:11255.Part 1 |

| Parameter | Unit | RESULTS S1 | KSPCB Limits | Protocol |
|-----------------|--------------------|---------------|-----------------|-----------------|
| (S)PM | mg/Nm ³ | 48.23 | 150 | IS:11255.Part 1 |
| SO ₂ | mg/Nm ³ | 5 | NS | FGA |
| NO ₂ | mg/Nm ³ | 39 | NS | FGA |
| *CO | mg/Nm ³ | 116 | NS | FGA |
| O ₂ | % | 16.20 | NS | FGA |
| CO ₂ | % | 3.70 | NS | FGA |
| *NMHC | ppm | 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

[Signature]

Authorised Signatory
(Murlidhar S M, Quality Manager)

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OEL/A/17/09/03



Certificate No. TC-7347

NABL ISO/IEC 17025:2005

ISO 9001:2015

OHSAS 18001:2007 CERTIFIED

MOEF & CC RECOGNISED

Report No: T/2020/0074B

Report Date: 29/05/2020

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- Cement Silo Top Bag Filter

Date of Sampling

28/05/2020

Analysis Start Date

29/05/2020

Date of Sample Receipt

28/05/2020

Analysis End Date

29/05/2020

Sample Details

Stack Monitoring

| Stack ID | S2 | S3 | S4 | Protocol |
|------------------------------------|------------|------------|------------|-----------------|
| Date & Time | 28/5 1100 | 28/5 1145 | 28/5 1300 | |
| Fuel Used | Electrical | Electrical | Electrical | |
| Temperature °C | 39 | 40 | 42 | |
| Velocity (m/s) | 5.94 | 5.93 | 5.58 | |
| Height (m) | 20 | 30 | 63 | |
| Diameter (m) | 0.45 | 0.50 | 0.50 | |
| Discharge Rate Nm ³ /Hr | 3400.00 | 4187.54 | 3862.37 | IS:11255.Part 1 |
| Emission Rate Kg/Hr | 0.2954 | 0.2382 | 0.2501 | IS:11255.Part 1 |

| Parameter | Unit | S2 | RESULTS S3 | S4 | KSPCB Limits | Protocol |
|-----------------|--------------------|-------|---------------|-------|-----------------|-----------------|
| (S)PM | mg/Nm ³ | 86.89 | 56.88 | 64.75 | 150 | IS:11255.Part 1 |
| SO ₂ | mg/Nm ³ | 0 | 0 | 0 | NS | FGA |
| NO ₂ | mg/Nm ³ | 0 | 0 | 0 | NS | FGA |
| *CO | mg/Nm ³ | 0 | 0 | 0 | NS | FGA |
| O ₂ | % | 20.90 | 20.90 | 20.90 | NS | FGA |
| CO ₂ | % | 0.00 | 0.00 | 0.00 | NS | FGA |
| *NMHC | ppm | 0 | 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)

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OEL/A/5709/03



Certificate No. TG-7947

NABL ISO/IEC 17025:2005

ISO 9001:2015

OHSAS 18001:2007 CERTIFIED

MOEF & CC RECOGNISED

Report No: T/2020/074A

Report Date: 29/05/2020

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)
Date of Sampling
Date of Sample Receipt
Sample Details

One Earth Enviro Labs
S1-DG
28/05/2020
28/05/2020
Stack Monitoring

Analysis Start Date 29/05/2020
Analysis End Date 29/05/2020

| Stack ID | S1 | Protocol |
|------------------------------------|-----------|------------------|
| Date & Time | 28/5 1300 | -- |
| Fuel Used | Diesel | -- |
| Temperature °C | 98 | -- |
| Velocity (m/s) | 6.04 | -- |
| Height (m) | 20 | -- |
| Diameter (m) | 0.45 | -- |
| Discharge Rate Nm ³ /Hr | 3454.32 | IS:11255, Part 1 |
| Emission Rate Kg/Hr | 0.2379 | IS:11255, Part 1 |

| Parameter | Unit | RESULTS S1 | KSPCB Limits | Protocol |
|-----------------|--------------------|---------------|-----------------|------------------|
| (S)PM | mg/Nm ³ | 68.87 | 150 | IS:11255, Part 1 |
| SO ₂ | mg/Nm ³ | 15 | NS | FGA |
| NO ₂ | mg/Nm ³ | 38 | NS | FGA |
| *CO | mg/Nm ³ | 114 | NS | FGA |
| O ₂ | % | 16.20 | NS | FGA |
| CO ₂ | % | 3.10 | NS | FGA |
| *NMHC | ppm | 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.



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