## Ambuja Cement

Ref No: ACL/ENV/CECB/2022-23/1114

Date: 12.09.2022

To.

The Member Secretary,

Chhattisgarh Environment Conservation Board, Paryavash Bhawan, Sector-19, Atal Nagar, Naya Raipur, Raipur (C.G.)

Sub: Submission of Environmental Statement of FY 2021-22 w.r.t. Gare Palma IV/8 Coal Mine of

M/s Ambuja Cement Limited, village- Karwahi, Tehsil- Tamnar, District- Raigarh (C.G.)

reg.

Ref: Environment Clearance Vide: J-11015/352/2006-IA.II(M) Dtd:22/12/2008

Dear Sir,

With reference to above subject matter we are enclosing herewith Environmental Statement (Form-V) of FY 2021-22 w.r.t. Gare Palma IV/8 Coal Mine of M/s Ambuja Cement Limited, village- Karwahi, Tehsil-Tamnar, District- Raigarh (C.G.).

Kindly acknowledge the same.

Thanking You

For, M/s Ambuja Cement Limited

Authorized Signatory

Sharnappa N Kamballi

Email Primary- unit-head-garepalma@ambujacement.com Email Secondary- sharanappa.kambalii@ambujacement.com

Mo.: 7225054477

Encl: As above

C.C: The Regional Officer, Chhattisgarh Environment Conservation Board, TV Tower Road, Raigarh Chhattisgarh.

## AMBUJA CEMENTS LIMITED Gare Palma IV/8 Coal Mine

SITE OFFICE: Village - Karwahi, Post. - Saraitola, Tahsil - Tamnar, Dist. - Raigarh (C.G.) 496 107 www. ambujacement.com, E-mail: unit-head-garepalma@ambujacement.com Regd. Off.: PO. Ambujanagar, Taluka - Kodinar, Dist. Gir Somnath, Gujrat

CIN: L26942GJ1981PLC004717

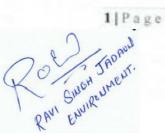
# ENVIRONMENT STATEMENT (FORM-V) YEAR 2021-22

UNIT: GARE PALMA IV/8 COAL MINE



Environmental Clearance vide: J-11015/352/2006-IA.II (M)
Dated: 22.12.2008

AMBUJA CEMENTS LIMITED
VILLAGE- KARWAHI, POST- SARAITOLA, TEHSITAMNAR,
DISTRICT- RAIGARH CHHATTISGARH



#### FORM V (See Rule 14)

## Environmental Statement for the financial year ending on 31<sup>st</sup> March on or before 30<sup>th</sup> of September every year.

PART A

		RI A
(i)	Name and address of the owner/ occupier of the industry operation or process.	Mr. Neeraj Akhoury (MD & CEO) Ambuja Cements Limited, Elegant Business Park, MIDC Cross Road B, Off Andheri- Kurla Road, Andheri (E), Mumbai-400059
(ii)	Industry category Primary-(STC Code) Secondary-(STC Code).	Large Scale Industry SIC Code: 1220
(iii)	Production capacity- Units	1.2 MTPA (0.7 MTPA from Open Cast Coal Mine & 0.5 MTPA from Under Ground Coal Mine)
(iv)	(iv) Year of establishment New Project (Block allotted vide dated 22.04.2015 and corrigends 14.12.2015 Environmental Clearance vide: J-11015/352/2006-IA.II (M) Date of the project (Block allotted vide dated 22.04.2015 and corrigends 14.12.2015).	
(v)	Date of the last environmental statement submitted.	06.10.2021

#### PART B Water and Raw Material Consumption

#### (1) Water consumption m3/d

Process	Nil	
Cooling	Nil	
Domestic	32 m³/day	
Total	32 m³/day	

S. No.	Name of	Process water consump	tion per unit of output
	Product	During the previous financial year (2020-21)	During the current financial year (2021-22)
(1)	Coal	NA	NA

This is a coal mine and there is no processing/cleaning of coal mine is being done.

#### (2) Raw material consumption

S. No.	Name of Raw	Name of Product	Name of Raw	Consumption of raw out	material per unit of put
	Material	Material Material	During the previous financial year (2020- 21)	During the current financial year (2021- 22)	
(1)	NA	Coal	NA	NA	NA

\*Industry may use codes if disclosing details of raw materials would violate contractual obligations, otherwise all industries have to name the raw material used.

PART C
Pollution discharged to environment/unit of output

Pollution	Quantity of pollutants discharged (mass/day)	Concentration of pollutants in discharges (mass/volume)	Percentage of variation from prescribed standards with reasons.
(i) Water	No discharge. Water quality reports are given as Annexure-1.	No applicable	Not applicable.
(ii) Air	The ambient air quality in standards press NABL accredited laborat of environmental paramet AAQMS is attached as CAAQMS has been insta connected to CECB (Ci	cribed by CPCB as per l ory has been appointme ers. Test report of NAB Annexure-2 and for No Annexure-3. alled to monitor real tim	NAAQS-2009.  Int to monthly monitoring L approved laboratory fo ise Level is enclosed as e ambient air quality and

PART D Hazardous Wastes

(as specified under Hazardous Wastes (Management and Handling) Rules, 1989)

S. No.	Hazardous Waste	Total Quantity				
		During the previous financial year (2020-21)	During the current financial year (2021-22)			
(a)	From process	5.98 KL of used oil (Schedule-I, Cat. 5.1) & 50 nos. of empty barrels (Schedule-I, Cat. No 33.1)	3.96 KL of used oil (Schedule-I, Cat. 5.1) & 26 nos. of Empty Barrels (Schedule-I, Cat No 33.1)			
(b)	From pollution control facility	Nil	Nil			

#### PART E Solid Wastes

S. No.	Solid Waste	Total Quantity					
		During the previous financial year (2020-21)	During the current financial year (2021-22)				
(a)	From process	Overburden – 735769.548 m <sup>3</sup>	Overburden- 2177196.066 m <sup>3</sup>				
(b)	From pollution control facility	Nil	Nil				
(C) (1) (2)	Quantity recycled or reutilized within the unit	Nil	Nil				
	Sold	Nil	Nil				
(3)	Disposed	Stored at designated place	Stored at designated place				

#### PART F

Please specify the characterization (in terms of composition and quantum) of hazardous as well as solid wastes and indicate disposal practice adopted for both these categories of wastes.

- Hazardous waste- Used Oil & Empty containers given to the authorized recyclers (M/s K.K. Lubes Pvt. Ltd., Plot No. 4, Sec-B, Sirgitti Industrial Area, Sirgitti Bilaspur, Chhattisgarh)
- 2. Solid Waste- Overburden is stored at designated area.

#### PART G

Impact of the pollution abatement measures taken on conservation of natural resources and on the cost of production.

- Nil

#### PART H

Additional measures/ investment proposal for environmental protection abatement of pollution, prevention of pollution.

- 1. CAAQMS installed within plant premises.
- 2. Truck mounted water sprinklers.
- 3. Installation of ground water level recorder.
- 4. Construction of settling tanks and ponds.
- 5. Rain water harvesting structures has been constructed.
- 6. Green belt development.
- 7. NABL accredited laboratory engaged for monitoring of air, water, noise, soil, mine water.

#### PART I

Any other particulars for improving the quality of the environment.

Regular plantation activity is being carried out; so far we have planted 24970 nos. of saplings. Year wise plantation is attached as *Annexure-4*.

## Annexure-1



MoEF RECOGNIZED ENVIRONMENTAL LABORATORY VALIDITY UPTO 08 02 2022

April-2021



Ref. No: MEPL/Lab/Cons/EMS/ACL-Gare/2020-21/Apr-21/WW-58

## ENVIRONMENT MONITORING REPORT

Name of Industry

Ambuja Cements Limited

Address

Gare Palma IV/8 Coal Mine, Vill: Khamaria

PO: Tamnar, Dist: Raigarh-496111

Date of Sampling

14.04.2021

Date of Report

16.04.2021

Type of Work

Wastewater Quality Monitoring

Sr. No.	Parameters	Unit	Ref. Method	Mine-pit Water
1.	pH at 25°C		IS:3025 (part 11)-1983	7.28
2.	Total Dissolved Solids	mg/l	15:3025 (part 16)-1984	242.0
3.	Total Suspended Solids	mg/l	IS:3025 (part 16)-1984	16.0
4.	Chloride as CI	mg/l	IS:3025 (part 32)-1988	26.0
5.	Sulphate as SO <sub>4</sub>	mg/I	IS:3025 (part 24)-1986	56.8
6.	Chemical Oxygen Demand (COD)	mg/I	IS:3025 (part 58)-2006	94.0
7.	Biological Oxygen demand (BOD) 3days @27°C	mg/l	IS:3025 (part 44)-1993	<4.0
8.	Oil & Grease	mg/I	1S:3025 (part 39)-1991	<1.0



Note:

This report refers only to the sample submitted for testing.

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Head Office: 20, IT Park, Parsodi, Nagpur - 440 022, Maharashtra (India) Ph. 0712 - 7125000, 7125200 Fax : 0712 - 6665100, Web. : www.smsl.co.in 



CIN No. U74140MH112009PTC196108

Report No.: GE-Nilawar/EMS/2021/May/28

Report Date: 21.05.2021

Name & Address of the Customer: M/s. Ambuja Cements Limited,

Add: Gare Palma IV/8 Coal Mine, Vill: Khamaria

PO: Tamnar, Dist: Raigarh-496111

Sample Description

: Waste water

Sampling Ref Method

Sample Receipt Date

: IS 3025 (Part 1):1987 RA 2009 : GYAN Enviro Representative

Sampled by Sampling Date

: 15.05.2021

: 16.05.2021

Sampling Location: Mine-pit Water

Environment Condition: Sunny (during sampling)

Date of Analysis started Date of Analysis completed: 21.05.2021

:16.06.2021

Testing Period

: 06 Days

#### Analysis Report

S. N	Test Parameters	Unit	Result	Test Method
1	pH at 25°C	-	7.28	IS 3025 (Part 11): 1983 RA 2017
2	Total Dissolved Solids	mg/L	249	(Clause 2.0) IS 3025 (Part 18): 1984 RA 2017
3	Total Suspended Solids	mg/L	14	IS 3025 (Part 17): 1984 RA 2017
4	Chloride as Cl	mg/L	26	IS 3025 (Part 32): 1988 RA 2014 (Clause 2.0)
5	Sulphate as SO <sub>4</sub>	mg/L	54	APHA 23 <sup>rd</sup> Ed - 4500 SO <sup>2</sup> -
6	Chemical Oxygen Demand (COD)	mg/L	76	IS 3025 (Part 58): 2006 RA 2017
7	Biological Oxygen demand (BOD) 3days @27°C	mg/L	<4.0	IS 3025 (Part 44): 1993 RA 2014
8	Oil & Grease	mg/L	<1.0	IS 3025(Part 39): 1991 RA 2014

For M/s Nilawar Laboratories,



#### RenukaYadav (Authorized Signatory)

Note -

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3. Our liability is limited to the commercial value of the test/tests carried out.



(A Unit of MNEC Consultants Pvt. Ltd) CIN No. U74140MH112009PTC196108

Report No.: GE-Nilawar/EMS/2021/May/28

Name & Address of the Customer: M/s. Ambuja Cements Limited,

Add: Gare Palma IV/8 Coal Mine, Vill: Khamaria

PO: Tamnar, Dist: Raigarh-496111

Sample Description

: Waste water

Sampling Location: Mine Discharge Water

Sampling Ref Method

: IS 3025 (Part 1):1987 RA 2009 : GYAN Enviro Representative

Environment Condition: Sunny (during sampling)

Report Date: 21.05.2021

Sampled by Sampling Date

: 15.05.2021

Date of Analysis started :16.06.2021 Date of Analysis completed: 21.05.2021

Sample Receipt Date

: 16.05.2021

Testing Period : 06 Days

### **Analysis Report**

S. N	Test Parameters	Unit	Result	Test Method
1	pH at 25°C	-	7.20	IS 3025 (Part 11): 1983 RA 2017 (Clause 2.0)
2	Total Dissolved Solids	mg/L	208	IS 3025 (Part 18): 1984 RA 2017
3	Total Suspended Solids	mg/L	12.0	IS 3025 (Part 17): 1984 RA 2017
4	Chloride as Cl	mg/L	12.8	IS 3025 (Part 32): 1988 RA 2014 (Clause 2.0)
5	Sulphate as SO <sub>4</sub>	mg/L	34.7	APHA 23rd Ed - 4500 SO 2- (E)4
6	Chemical Oxygen Demand (COD)	mg/L	48.0	IS 3025 (Part 58): 2006 RA 2017
7	Biological Oxygen demand (BOD) 3days @27°C	mg/L	<3.0	IS 3025 (Part 44): 1993 RA 2014
8	Oil & Grease	mg/L	<1.0	IS 3025(Part 39): 1991 RA 2014

For M/s Nilawar Laboratories,



#### RenukaYadav (Authorized Signatory)

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CIN No. U74140MH112009PTC196108

Report No.: GE-Nilawar/EMS/2021/May/28 Report Date: 21.05.2021 Name & Address of the Customer: M/s. Ambuja Cements Limited, Add: Gare Palma IV/8 Coal Mine, Vill: Khamaria PO: Tamnar, Dist: Raigarh-496111 : Waste water Sample Description Sampling Location: ETP Inlet : IS 3025 (Part 1):1987 RA 2009 Sampling Ref Method Environment Condition: Sunny (during sampling) : GYAN Enviro Representative Sampled by Date of Analysis started :16.06,2021 Sampling Date : 15.05.2021 Date of Analysis completed: 21.05.2021 Sample Receipt Date : 16.05.2021 Testing Period : 06 Days

#### **Analysis Report**

S. N	Test Parameters	Unit	Result	Test Method
1	pH at 25°C		7.50	IS 3025 (Part 11): 1983 RA 2017 (Claus
2	Total Dissolved Solids		7.50	2.0)
3		mg/L	464	IS 3025 (Part 18): 1984 RA 2017
4	Total Suspended Solids	mg/L	132	IS 3025 (Part 17): 1984 RA 2017
•	Chloride as Cl	mg/L	52.0	IS 3025 (Part 32): 1988 RA 2014
5	Sulphate as SO <sub>4</sub>		15000000	(Clause 2.0)
	Chemical Oxygen Demand (COD)	mg/L	86.0	APHA 23rd Ed - 4500 SO 2- (E)4
7	Pielegian Oxygen Demand (COD)	mg/L	172.0	IS 3025 (Part 58): 2006 RA 2017
	Biological Oxygen demand (BOD) 3days @27°C	mg/L	25.0	IS 3025 (Part 44): 1993 RA 2014
8	Oil & Grease	mg/L	2.10	IS 3025(Part 39): 1991 RA 2014

For M/s Nilawar Laboratories,



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CIN No. U74140MH112009PTC196108

Report No.: GE-Nilawar/EMS/2021/May/28

Name & Address of the Customer: M/s, Ambuja Cements Limited,

Add: Gare Palma IV/8 Coal Mine, Vill: Khamaria

PO: Tamnar, Dist: Raigarh-496111

Sample Description : Waste water

Sampling Ref Method : IS 3025 (Part 1):1987 RA 2009

Sampled by : GYAN Enviro Representative

Sampling Date : 15.05.2021 Sample Receipt Date : 16.05.2021 Sampling Location: ETP Outlet

Environment Condition: Sunny (during sampling)

Report Date: 21.05.2021

Date of Analysis started :16.06.2021
Date of Analysis completed: 21.05.2021
Testing Period :06 Days

#### **Analysis Report**

S. N	Test Parameters	Unit	Result	Test Method
1	pH at 25°C	-	7.28	IS 3025 (Part 11): 1983 RA 2017 (Clause 2.0)
2	Total Dissolved Solids	mg/L	244	IS 3025 (Part 18): 1984 RA 2017
3	Total Suspended Solids	mg/L	16.0	IS 3025 (Part 17): 1984 RA 2017
4	Chloride as Cl	mg/L	35.0	IS 3025 (Part 32): 1988 RA 2014 (Clause 2.0)
5	Sulphate as SO <sub>4</sub>	mg/L	58.0	APHA 23rd Ed - 4500 SO 2- (E)4
6	Chemical Oxygen Demand (COD)	mg/L	32.0	IS 3025 (Part 58): 2006 RA 2017
7	Biological Oxygen demand (BOD) 3days @27°C	mg/L	6.0	IS 3025 (Part 44): 1993 RA 2014
8	Oil & Grease	mg/L	<1.0	IS 3025(Part 39): 1991 RA 2014

For M/s Nilawar Laboratories,



#### RenukaYadav (Authorized Signatory)

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CIN No. U74140MH112009PTC196108

Report No.: GE-Nilawa	r/EMS/2021/June /16	Report Date: 03.07.202	
Name & Address of the	Customer: M/s. Ambuja Cements Lim Add: Gare Palma IV/8 Coal : PO: Tamnar, Dist: Raigarh-	Mine, Vill: Khamaria	
Sample Description	: Waste water	Sampling Location: Mine-pit Water	
Sampling Ref Method	: IS 3025 (Part 1):1987 RA 2009	Environment Condition: Sunny (during sampling)	
Sampled by : GYAN Enviro Representative Sampling Date : 28.06.2021	Date of Analysis started :29.06.2021		
	: 28.06.2021	Date of Analysis completed: 03.07.2021	
Sample Receipt Date	: 29.06.2021	Testing Period : 05 Days	

#### **Analysis Report**

S. N	Test Parameters	Unit	Result	Test Method
1	pH at 25°C		7.31	IS 3025 (Part 11): 1983 RA 2017 (Clause 2.0)
2	Total Dissolved Solids	mg/L	252	IS 3025 (Part 18): 1984 RA 2017
3	Total Suspended Solids	mg/L	16	IS 3025 (Part 17): 1984 RA 2017
4	Chloride as Cl	mg/L	29	IS 3025 (Part 32): 1988 RA 2014 (Clause 2.0)
5	Sulphate as SO <sub>4</sub>	mg/L	51	APHA 23 <sup>rd</sup> Ed - 4500 SO <sup>2</sup> - (E)4
6	Chemical Oxygen Demand (COD)	mg/L	68	IS 3025 (Part 58): 2006 RA 2017
7	Biological Oxygen demand (BOD) 3days @27°C	mg/L	<4.0	IS 3025 (Part 44): 1993 RA 2014
8	Oil & Grease	mg/L	<1.0	IS 3025(Part 39): 1991 RA 2014

For M/s Nilawar Laboratories,



#### RenukaYadav (Authorized Signatory)

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Tune 2021

CIN No. U74140MH112009PTC196108

Report No.: GE-Nilawar/EMS/2021/June /16

Name & Address of the Customer: M/s. Ambuja Cements Limited,

Add: Gare Palma IV/8 Coal Mine, Vill: Khamaria

PO: Tamnar, Dist: Raigarh-496111

Sample Description

: Waste water

Sampling Ref Method

Sample Receipt Date

: IS 3025 (Part 1):1987 RA 2009 : GYAN Enviro Representative

Sampled by Sampling Date

: 28.06.2021 : 29.06.2021

Sampling Location: Mine Discharge Water Environment Condition: Sunny (during sampling)

Date of Analysis started

:29.06.2021

Report Date: 03.07.2021

Date of Analysis completed: 03.07.2021 Testing Period

: 05 Days

## Analysis Report

S. N	Test Parameters	Unit	Result	Test Method
1	pH at 25°C	-	7.18	IS 3025 (Part 11): 1983 RA 2017 (Claus
2	Total Dissolved Solids		17.05.05	2.0)
3		mg/L	201	IS 3025 (Part 18): 1984 RA 2017
4	Total Suspended Solids	mg/L	14.0	IS 3025 (Part 17): 1984 RA 2017
•	Chloride as Cl	mg/L	10.4	IS 3025 (Part 32): 1988 RA 2014
5	Sulphate as SO <sub>4</sub>	mg/L	31.6	(Clause 2.0)
6	Chemical Oxygen Demand (COD)	mg/L		APHA 23rd Ed - 4500 SO 2- (E)4
7	Biological Owners down 1 (DOD)		42.0	IS 3025 (Part 58): 2006 RA 2017
•	Biological Oxygen demand (BOD) 3days @27°C	mg/L	<3.0	IS 3025 (Part 44): 1993 RA 2014
8	Oil & Grease	mg/L	<1.0	IS 3025(Part 39): 1991 RA 2014

For M/s Nilawar Laboratories,



#### RenukaYaday

(Authorized Signatory)

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Marrior, Pratibne Sankur, Beside Alankar Cinema, Dharampeth, Nagpur - 10. Ph. +91-712-2542261, 2542291, E-mail: nilawartatis-@gr. Leboratory: Al Km 16.5, Nilawar Motors Complex, Amravati Road, Waddhamna, Nagpur - 440 023, Mob. +91-9922409055, 9552550955



CIN No. U74140MH112009PTC196108

June . 2021

Report No.: GE-Nilawa	r/EMS/2021/June /16	fine, Vill: Khamaria	
Name & Address of the	Customer: M/s. Ambuja Cements Lim Add: Gare Palma IV/8 Coal PO: Tamnar, Dist: Raigarh-		
Sample Description	: Waste water	Sampling Location: ETP Inlet	
Sampling Ref Method Sampled by Sampling Date Sample Receipt Date	: IS 3025 (Part 1):1987 RA 2009 : GYAN Enviro Representative : 28.06.2021 : 29.06.2021	Environment Condition: Sunny (during sampling)	
		Date of Analysis started :29.06.2021 Date of Analysis completed: 03.07.2021 Testing Period : 05 Days	

#### **Analysis Report**

S. N	Test Parameters	Unit	Result	Test Method
1	pH at 25°C	-	7.42	IS 3025 (Part 11): 1983 RA 2017 (Clause 2.0)
2	Total Dissolved Solids	mg/L	472	IS 3025 (Part 18): 1984 RA 2017
3	Total Suspended Solids	mg/L	128	IS 3025 (Part 17): 1984 RA 2017
4	Chloride as Cl	mg/L	54.0	IS 3025 (Part 32): 1988 RA 2014 (Clause 2.0)
5	Sulphate as SO <sub>4</sub>	mg/L	77.0	APHA 23rd Ed - 4500 SO 2- (E)4
6	Chemical Oxygen Demand (COD)	mg/L	164.0	IS 3025 (Part 58): 2006 RA 2017
7	Biological Oxygen demand (BOD) 3days @27°C	mg/L	22.0	IS 3025 (Part 44): 1993 RA 2014
8	Oil & Grease	mg/L	2.07	IS 3025(Part 39): 1991 RA 2014

For M/s Nilawar Laboratories,



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June - 2021

CIN No. U74140MH112009PTC196108

Report Date: 03.07.2021	
Khamaria	
496111 Sampling Location: ETP Outlet	
ment Condition: Sunny (during sampling) Analysis started :29.06.2021 Analysis completed: 03.07.2021 Period : 05 Days	

### Analysis Report

S. N	Test Parameters	Unit	Result	Test Method
1	pH at 25°C	-	7.76	IS 3025 (Part 11): 1983 RA 2017 (Clause 2.0)
2	Total Dissolved Solids	mg/L	233	IS 3025 (Part 18): 1984 RA 2017
3	Total Suspended Solids	mg/L	14.0	IS 3025 (Part 17): 1984 RA 2017
4	Chloride as Cl	mg/L	37.1	IS 3025 (Part 32): 1988 RA 2014 (Clause 2.0)
5	Sulphate as SO <sub>4</sub>	mg/L	51.9	APHA 23rd Ed - 4500 SO 2- (E)4
6	Chemical Oxygen Demand (COD)	mg/L	12.0	IS 3025 (Part 58): 2006 RA 2017
7	Biological Oxygen demand (BOD) 3days @27°C	mg/L	5.0	IS 3025 (Part 44): 1993 RA 2014
8	Oil & Grease	mg/L	<1.0	IS 3025(Part 39): 1991 RA 2014

For M/s Nilawar Laboratories,



### RenukaYadav (Authorized Signatory)

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CIN No. U74140MH112009PTC196108

Report No.: GE-Nilawar/EMS/2021/July/28 Report Date: 09.08.2021

Name & Address of the Customer: M/s. Ambuja Cements Limited,

Add: Gare Palma IV/8 Coal Mine, Vill: Khamaria

PO: Tamnar, Dist: Raigarh-496111

Sample Description : Waste water Sampling Ref Method

: IS 3025 (Part 1):1987 RA 2009

Sampled by Sampling Date Sample Receipt Date

: GYAN Enviro Representative : 31.07.2021

: 02.08.2021

Sampling Location: Mine Discharge Water

Environment Condition: Sunny (during sampling)

Date of Analysis started :02.08.2021 Date of Analysis completed: 07.08.2021 : 06 Days Testing Period

#### Analysis Report

S. N	Test Parameters	Unit	Result	Test Method
1	pH at 25°C	-	7.02	IS 3025 (Part 11): 1983 RA 2017 (Clause 2.0)
2	Total Dissolved Solids	mg/L	161	IS 3025 (Part 18): 1984 RA 2017
3	Total Suspended Solids	mg/L	10.0	IS 3025 (Part 17): 1984 RA 2017
4	Chloride as Cl	mg/L	15.0	IS 3025 (Part 32): 1988 RA 2014 (Clause 2.0)
5	Sulphate as SO <sub>4</sub>	mg/L	107	APHA 23 <sup>rd</sup> Ed - 4500 SO <sup>2</sup> - (E)4
3	Chemical Oxygen Demand (COD)	mg/L	24.0	IS 3025 (Part 58): 2006 RA 2017
7	Biological Oxygen demand (BOD)	mg/L	4.0	IS 3025 (Part 44): 1993 RA 2014
0	3days @27°C Oil & Grease	mg/L	<1.0	IS 3025(Part 39): 1991 RA 2014

### For M/s Nilawar Laboratories,



#### RenukaYadav

(Authorized Signatory)

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ISO 17025:2005 ISO 9001:2015 ISO OHSAS 18001:2007 NABL ACCREDITED LAB

CIN No. U74140MH112009PTC196108

Report No.: GE-Nilawar/EMS/2021/July/28		Report Date: 09.08.202	
Name & Address of the	Customer: M/s. Ambuja Cements Lim Add: Gare Palma IV/8 Coal   PO: Tamnar, Dist: Raigarh-	Mine, Vill: Khamaria	
Sample Description	: Waste water	Sampling Location: ETP Outlet	
Sampling Ref Method : IS 3025 (Part 1):1987 RA 2009 Sampled by : GYAN Enviro Representative Sample Receipt Date : 31.07.2021 : 02.08.2021		Environment Condition: Sunny (during sampling)	
	Date of Analysis started :02.08.2021 Date of Analysis completed: 07.08.2021 Testing Period : 06 Days		

Testing Period

#### Analysis Report

S. N	Test Parameters	Unit	Result	Test Method
1	pH at 25°C		7.11	IS 3025 (Part 11): 1983 RA 2017 (Clause 2.0)
2	Total Dissolved Solids	mg/L	235	IS 3025 (Part 18): 1984 RA 2017
3	Total Suspended Solids	mg/L	25	IS 3025 (Part 17): 1984 RA 2017
4	Chloride as Cl	mg/L	15.0	IS 3025 (Part 32): 1988 RA 2014 (Clause 2.0)
5	Sulphate as SO <sub>4</sub>	mg/L	86.0	APHA 23rd Ed - 4500 SO 2- (E)4
6	Chemical Oxygen Demand (COD)	mg/L	52.0	IS 3025 (Part 58): 2006 RA 2017
7	Biological Oxygen demand (BOD)	mg/L	14.0	IS 3025 (Part 44): 1993 RA 2014
8	3days @27°C Oil & Grease	mg/L	0.88	IS 3025(Part 39): 1991 RA 2014

### For M/s Nilawar Laboratories,



#### Renuka Yadav

(Authorized Signatory)

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### CIN No. U74140MH112009PTC196108

Report No.: GE-Nilawar/EMS/2021/Aug/36 Report Date: 11.09.2021

Name & Address of the Customer: M/s. Ambuja Cements Limited,

Add: Gare Palma IV/8 Coal Mine, Vill: Khamaria

PO: Tamnar, Dist: Raigarh-496111

Sample Description : Waste water

Sampling Ref Method 1S 3025 (Part 1):1987 RA 2009

Sampling Ket Method 3.6 Sampled by : G

: GYAN Enviro Representative

Sampling Date :31.07.2021 Sample Receipt Date :02.08.2021 Sampling Location: Mine Discharge Water

Environment Condition: Sunny (during sampling)
Date of Analysis started :04.09.2021

Date of Analysis completed: 09.09.2021 Testing Period : 06 Days

#### **Analysis Report**

S. N	Test Parameters	Unit	Result	Test Method
1	pH at 25°C	-	6.47	IS 3025 (Part 11): 1983 RA 2017 (Clause 2.0)
2	Total Dissolved Solids	mg/L	346	IS 3025 (Part 18): 1984 RA 2017
3	Total Suspended Solids	mg/L	14.0	IS 3025 (Part 17): 1984 RA 2017
4	Chloride as Cl	mg/L	12.9	IS 3025 (Part 32): 1988 RA 2014 (Clause2.0)
5	Sulphate as SO <sub>4</sub>	mg/L	164	APHA 23 <sup>rd</sup> Ed - 4500 SO <sup>2</sup> - (E)4
6	Chemical Oxygen Demand (COD)	mg/L	40.0	IS 3025 (Part 58): 2006 RA 2017
7	Biological Oxygen demand (BOD) 3days @27°C	mg/L	3.0	IS 3025 (Part 44): 1993 RA 2014
8	Oil & Grease	mg/L	0.45	IS 3025(Part 39): 1991 RA 2014

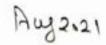
For M/s Nilawat Laboratories,



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ISO 17025:2017 ISO 9001:2015 ISO 14001:2015 ISO 45001:2018 NABL ACCREDITED LAB

#### CIN No. U74140MH112009PTC196108

Report No.: GE-Nilawar/EMS/2021/Aug/36	Report Date: 11.09.2021
Name & Address of the Customer: M/s. Ambuja Cement Add: Gare Palma IV/8 Coal Minc, Vill: Khamaria PO: Tamnar, Dist: Raigarh-496111	s Limited,
Sample Description : Bore well water	Sampling Location:Borewell water -Mine
Sampling Ref Method : IS 3025 (Part 1):1987 RA 2	009 Environment Condition: Sunny (during sampling)
Sampled by : GYAN Enviro Representative	Date of Analysis started :04.09.2021
Sampling Date :31.08.2021	Date of Analysis completed: 09.09.2021
Sample Receipt Date :02.09.2021	Testing Period : 06 Days

#### **Analysis Report**

S. N	Test Parameters	Unit	Result	Test Method
1	pH at 25°C	-	8.04	IS 3025 (Part 11): 1983 RA 2017 (Clause 2.0)
2	Total Dissolved Solids	mg/L	968	IS 3025 (Part 18): 1984 RA 2017
3	Total Suspended Solids	mg/L	28.0	IS 3025 (Part 17): 1984 RA 2017
4	Chloride as Cl	mg/L	135	IS 3025 (Part 32): 1988 RA 2014 (Clause2.0)
5	Sulphate as SO <sub>4</sub>	mg/L	108	APHA 23rd Ed - 4500 SO 2- (E)4
6	Chemical Oxygen Demand (COD)	mg/L	4.0	IS 3025 (Part 58): 2006 RA 2017
7	Biological Oxygen demand (BOD) 3days @27°C			
8 Oil & Grease mg/L		mg/L	0.32	IS 3025(Part 39): 1991 RA 2014

For M/s Nilawar Laboratories,



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Sep. 2021

Report Date: 09.10.2021

CIN No. U74140MH112009PTC196108

Report No.: GE-Nilawar/EMS/2021/Sep/45

April 1

Name & Address of the Customer: M/s. Ambuja Cements Limited, Add: Gare Palma IV/8 Coal Mine, Vill: Khamaria

no. T

PO: Tamnar, Dist: Raigarh-496111

Sample Description : Waste water

Sampling Ref Method : IS 3025 (Part 1):1987 RA 2009

Sampled by

: GYAN Enviro Representative

Sampling Date : 29.09.2021 Sample Receipt Date :02.10.2021 Sampling Location: Mine Discharge Water

Environment Condition: Sunny (during sampling)

Date of Analysis started :02.10.2021 Date of Analysis completed: 07.10.2021 Testing Period : 06 Days

#### Analysis Report

S. N	Test Parameters	Unit	Result	Test Method
1	pH at 25°C	-	7.15	IS 3025 (Part 11): 1983 RA 2017 (Clause 2.0)
2	Total Dissolved Solids	mg/L	367	IS 3025 (Part 18): 1984 RA 2017
3	Total Suspended Solids	mg/L 18.0 IS 3025 (Part 17): 1984 RA 2017		IS 3025 (Part 17): 1984 RA 2017
4	Chloride as Cl	mg/L	20.4	IS 3025 (Part 32): 1988 RA 2014 (Clause 2.0)
5	Sulphate as SO <sub>4</sub>	mg/L	178	APHA 23 <sup>rd</sup> Ed - 4500 SO <sup>2</sup> - (E)4
6	Chemical Oxygen Demand (COD)	mg/L	32.0	IS 3025 (Part 58): 2006 RA 2017
7	Biological Oxygen demand (BOD) 3days @27°C	and the second s		
8	Oil & Grease	mg/L	0.58	IS 3025(Part 39): 1991 RA 2014

For M/s Nilawar Laboratories,

Renuice Vaday

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Sep. 2021

CIN No. U74140MH112009PTC196108

Report Date: 09.10.2021 Report No.: GE-Nilawar/EMS/2021/Sep/45 Name & Address of the Customer: M/s. Ambuja Cements Limited, Add: Gare Palma IV/8 Coal Mine, Vill: Khamaria PO: Tamnar, Dist: Raigarh-496111 Sample Description : Bore well water Sampling Location: Mine Pit Water : IS 3025 (Part 1):1987 RA 2009 Sampling Ref Method Environment Condition: Sunny (during sampling) Sampled by : GYAN Enviro Representative :02.10.2021 Date of Analysis started Sampling Date : 29.09.2021 Date of Analysis completed: 07.10.2021 Sample Receipt Date: 02.10.2021 Testing Period : 06 Days

#### **Analysis Report**

S. N	Test Parameters	Unit	Result	Test Method	
1	pH at 25°C	-	6.88	IS 3025 (Part 11): 1983 RA 2017 (Clause 2.0)	
2	Total Dissolved Solids	mg/L	405	IS 3025 (Part 18): 1984 RA 2017	
3	Total Suspended Solids			IS 3025 (Part 17): 1984 RA 2017	
4	Chloride as Cl	mg/L	45.0	IS 3025 (Part 32): 1988 RA 2014 (Clause2.0)	
5	Sulphate as SO <sub>4</sub>	mg/L	152	APHA 23rd Ed - 4500 SO 2- (E)4	
6	Chemical Oxygen Demand (COD)	mg/L	48.0	IS 3025 (Part 58): 2006 RA 2017	
7	Biological Oxygen demand (BOD) 3days @27°C	mg/L	8.0	IS 3025 (Part 44): 1993 RA 2014	
8	Oil & Grease	mg/L	0.44	IS 3025(Part 39): 1991 RA 2014	

For M/s Nilawar Laboratories,

Renuka Yaday (Authorized Signatory)

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Oct -2021

CIN No. U74140MH112009PTC196108

Report Date: 12.11.2021 Report No.: GE-Nilawar/EMS/2021/Oct/38

Name & Address of the Customer: M/s. Ambuja Cements Limited,

Add: Gare Palma IV/8 Coal Mine, Vill: Khamaria

PO: Tamnar, Dist: Raigarh-496111

: Waste water Sample Description

: IS 3025 (Part 1):1987 RA 2009

Sampling Ref Method Sampled by

: GYAN Enviro Representative : 21.10.2021

Sampling Date Sample Receipt Date

: 22.10.2021

Sampling Location: Mine Discharge Water

Environment Condition: Sunny (during sampling)

: 23.10.2021 Date of Analysis started Date of Analysis completed: 28.10.2021 : 6 Days Testing Period

#### **Analysis Report**

S. N	Test Parameters	Unit	Result	Test Method
1	pH at 25°C	-	7.34	IS 3025 (Part 11): 1983 RA 2017 (Clause 2.0)
2	Total Dissolved Solids	mg/L	390	IS 3025 (Part 18): 1984 RA 2017
3	Total Suspended Solids	mg/L	20	IS 3025 (Part 17): 1984 RA 2017
4	Chloride as Cl	mg/L	33	IS 3025 (Part 32): 1988 RA 2014 (Clause 2.0)
5	Sulphate as SO <sub>4</sub>	mg/L	190	APHA 23rd Ed - 4500 SO 2- (E)4
6	Chemical Oxygen Demand (COD)	mg/L	24.0	IS 3025 (Part 58): 2006 RA 2017
7	Biological Oxygen demand (BOD) 3days @27°C	mg/L	6.0	IS 3025 (Part 44): 1993 RA 2014
8	Oil & Grease	mg/L	0.42	IS 3025(Part 39): 1991 RA 2014

For M/s Nilawar Laboratories,



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002 2021

CIN No. U74140MH112009PTC196108

Report Date: 12.11.2021 Report No.: GE-Nilawar/EMS/2021/Oct/38 Name & Address of the Customer: M/s. Ambuja Cements Limited, Add: Gare Palma IV/8 Coal Mine, Vill: Khamaria PO: Tamnar, Dist: Raigarh-496111 Sampling Location: Mine Pit Water Sample Description : Bore well water Environment Condition: Sunny (during sampling) : IS 3025 (Part 1):1987 RA 2009 Sampling Ref Method : GYAN Enviro Representative Date of Analysis started : 23.10.2021 Sampled by : 21.10.2021 Date of Analysis completed: 28.10.2021 Sampling Date : 22.10.2021 Testing Period : 6 Days Sample Receipt Date

#### Analysis Report

S. N	Test Parameters	Unit	Result	Test Method
1	pH at 25°C	-	6.95	IS 3025 (Part 11): 1983 RA 2017 (Clause 2.0)
2	Total Dissolved Solids	mg/L	424	IS 3025 (Part 18): 1984 RA 2017
3	Total Suspended Solids	mg/L	28	IS 3025 (Part 17): 1984 RA 2017
4	Chloride as Cl	mg/L	48	IS 3025 (Part 32): 1988 RA 2014 (Clause 2.0)
5	Sulphate as SO <sub>4</sub>	mg/L	167	APHA 23 <sup>rd</sup> Ed - 4500 SO <sup>2</sup> - (E)4
6	Chemical Oxygen Demand (COD)	mg/L	52	IS 3025 (Part 58): 2006 RA 2017
	Biological Oxygen demand (BOD) 3days @27°C	mg/L	7.0	IS 3025 (Part 44): 1993 RA 2014
8	Oil & Grease	mg/L	0.35	IS 3025(Part 39): 1991 RA 2014

For M/s Nilawar Laboratories,



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CIN No. U74140MH112009PTC196108

Report No.: GE-Nilawar/EMS/2021/Nov/29

Name & Address of the Customer: M/s. Ambuja Cements Limited,

Add: Gare Palma IV/8 Coal Mine, Vill: Khamaria

PO: Tamnar, Dist: Raigarh-496111

Sample Description

: Waste water

Sampling Location: Mine Discharge Water

Sampling Ref Method Sampled by

: 1S 3025 (Part 1):1987 RA 2009 : GYAN Enviro Representative

Environment Condition: Sunny (during sampling)

Sampling Date

: 18.11.2021

Date of Analysis started : 26.11.2021 Date of Analysis completed: 01.12.2021

Sample Receipt Date

: 25.11.2021

Testing Period

: 6 Days

#### **Analysis Report**

S. N	Test Parameters	Unit	Result	Test Method	
1	pH at 25°C		7.59	IS 3025 (Part 11): 1983 RA 2017 (Clause 2.0)	
2	Total Dissolved Solids	mg/L	236	IS 3025 (Part 18): 1984 RA 2017	
3	Total Suspended Solids	mg/L	40.8	IS 3025 (Part 17): 1984 RA 2017	
4	Chloride as Cl	mg/L	12.0	IS 3025 (Part 32): 1988 RA 2014 (Clause 2.0)	
5	Sulphate as SO <sub>4</sub>	mg/L	29.0	APHA 23rd Ed - 4500 SO 2- (E)4	
6	Chemical Oxygen Demand (COD)	mg/L	8.0	IS 3025 (Part 58): 2006 RA 2017	
7	Biological Oxygen demand (BOD) 3days @27°C	mg/L	2.0	IS 3025 (Part 44): 1993 RA 2014	
8	Oil & Grease	mg/L	0.26	IS 3025(Part 39): 1991 RA 2014	
9	Iron as Fe	mg/L	1.12	IS 3025 (Part 53):1991	

For M/s Nilawar Laboratories,

Renuka Yadav (Authorized Signatory)

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Nov-2021

CIN No. U74140MH112009PTC196108

Report No.: GE-Nilawar/EMS/2021/Nov/29 Report Date: 08.12.2021 Name & Address of the Customer: M/s. Ambuja Cements Limited, Add: Gare Palma IV/8 Coal Mine, Vill: Khamaria PO: Tamnar, Dist: Raigarh-496111 Sample Description : Bore well water Sampling Location: Mine Pit Water Sampling Ref Method : IS 3025 (Part 1):1987 RA 2009 Environment Condition: Sunny (during sampling) Sampled by : GYAN Enviro Representative : 26.11.2021 Date of Analysis started Sampling Date : 18.11.2021 Date of Analysis completed: 01.12.2021 Sample Receipt Date : 25.11.2021 Testing Period : 6 Days

#### Analysis Report

S. N	Test Parameters	Unit	Result	Test Method	
1	pH at 25°C		7.20	IS 3025 (Part 11): 1983 RA 2017 (Clause 2.0)	
2	Total Dissolved Solids	mg/L	310	IS 3025 (Part 18): 1984 RA 2017	
3	Total Suspended Solids	mg/L	33.0	IS 3025 (Part 17): 1984 RA 2017	
4	Chloride as Cl	mg/L	16.0	IS 3025 (Part 32): 1988 RA 2014 (Clause 2.0)	
5	Sulphate as SO <sub>4</sub>	mg/L	59.0	APHA 23 <sup>rd</sup> Ed - 4500 SO 2- (E)4	
6	Chemical Oxygen Demand (COD)	mg/L	12	IS 3025 (Part 58): 2006 RA 2017	
7	Biological Oxygen demand (BOD) 3days @27°C	mg/L	3.0	IS 3025 (Part 44): 1993 RA 2014	
8	Oil & Grease	mg/L	0.54	IS 3025(Part 39): 1991 RA 2014	
9	Iron as Fe	mg/L	0.15	IS 3025 (Part 53):1991	

For M/s Nilawar Laboratories,

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Dec -2021

#### CIN No. U74140MH112009PTC196108

Report No.: GE-Nilawar/EMS/2021-22/Dec/50

Report Date: 06.01.2021

Name & Address of the Customer: M/s. Ambuja Cements Limited,

Add: Gare Palma IV/8 Coal Mine, Vill: Khamaria

PO: Tamnar, Dist: Raigarh-496111

Sample Description : Waste water

Sampling Ref Method :IS 3025 (Part 1):1987 RA 2009

Sampled by : GYAN Enviro Representative

Sampling Date :28.12.2021 Sample Receipt Date :31.12.2021 Sampling Location: Mine Discharge Water

Environment Condition: Sunny (during sampling)

:31.12.2021 Date of Analysis started Date of Analysis completed: 05.01.2022 :6 Days Testing Period

#### Analysis Report

S. N	Test Parameters	Unit	Result	Test Method
1	pH at 25°C	-	7.44	IS 3025 (Part 11): 1983 RA 2017 (Clause 2.0)
2	Total Dissolved Solids	mg/L	258	IS 3025 (Part 18): 1984 RA 2017
3	Total Suspended Solids	mg/L	18	IS 3025 (Part 17): 1984 RA 2017
4	Chloride as Cl	mg/L	32	IS 3025 (Part 32): 1988 RA 2014 (Clause2.0)
5	Sulphate as SO <sub>4</sub>	mg/L	59	APHA 23 <sup>rd</sup> Ed - 4500 SO <sup>2</sup> - (E)4
6	Chemical Oxygen Demand (COD)	mg/L	52	IS 3025 (Part 58): 2006 RA 2017
7	Biological Oxygen demand (BOD) 3days @27°C	mg/L	<3.0	IS 3025 (Part 44): 1993 RA 2014
8	Oil & Grease	mg/L	<1.0	IS 3025(Part 39): 1991 RA 2014

For M/s Nilawar Laboratories,



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Dec - 2021

CIN No. U74140MH112009PTC196108

Report No.: GE-Nilawar/EMS/2021-22/Dec/50

Report Date: 06.01.2021

Name & Address of the Customer: M/s. Ambuja Cements Limited,

Add: Gare Palma IV/8 Coal Mine, Vill: Khamaria

PO: Tamnar, Dist: Raigarh-496111

Sample Description : Waste water

Sampling Ref Method : IS 3025 (Part 1):1987 RA 2009

Sampled by : GYAN Enviro Representative

Sampling Date : 28.12.2021 Sample Receipt Date : 31.12.2021 Sampling Location: Mine Pit Water

Environment Condition: Sunny (during sampling)

Date of Analysis started :31.12.2021 Date of Analysis completed: 05.01.2022 Testing Period :6 Days

#### **Analysis Report**

S. N	Test Parameters	Unit	Result	Test Method	
1	pH at 25°C	-	7.05	IS 3025 (Part 11): 1983 RA 2017 (Clause 2.0)	
2	Total Dissolved Solids	mg/L	219	IS 3025 (Part 18): 1984 RA 2017	
3	Total Suspended Solids	mg/L	18	IS 3025 (Part 17): 1984 RA 2017	
4	Chloride as Cl	mg/L	34	IS 3025 (Part 32): 1988 RA 2014 (Clause2.0)	
5	Sulphate as SO <sub>4</sub>	mg/L	46.9	APHA 23 <sup>rd</sup> Ed - 4500 SO <sup>2</sup> - (E)4	
6	Chemical Oxygen Demand (COD)	mg/L	48	IS 3025 (Part 58): 2006 RA 2017	
7	Biological Oxygen demand (BOD) 3days @27°C	mg/L	<3.0	IS 3025 (Part 44): 1993 RA 2014	
8	Oil & Grease	mg/L	<1.0	IS 3025(Part 39): 1991 RA 2014	

For M/s Nilawar Laboratories,

Renuka Yaday (Authorized Signatory)

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ISO 17025:2017 ISO 9001:2015 ISO 14001:2015 ISO 45001:2018 NABL ACCREDITED LAB Tan-2022

CIN No. U74140MH112009PTC196108

Report Date: 09.02.2022 Report No.: GE-Nilawar/EMS/2021-22/Jan/32 Name & Address of the Customer: M/s. Ambuja Cements Limited, Add: Gare Palma IV/8 Coal Mine, Vill: Khamaria PO: Tamnar, Dist: Raigarh-496111 Sampling Location: Mine Water Sample Description : Mine Water Environment Condition: Sunny (during sampling) : IS 3025 (Part 1):1987 RA 2009 Sampling Ref Method ; 28.01.2022 Date of Analysis started : GYAN Enviro Representative Sampled by Date of Analysis completed: 02.02.2022 : 24.01.2022 Sampling Date : 6 Days Testing Period : 27.01.2022 Sample Receipt Date

#### **Analysis Report**

S. N	Test Parameters	Unit	Result	Test Method	
1	pH at 25°C	-	7.51	IS 3025 (Part 11): 1983 RA 2017 (Clause 2.0)	
2	Total Dissolved Solids	mg/L	214	IS 3025 (Part 18): 1984 RA 2017	
3	Total Suspended Solids	mg/L	12.0	IS 3025 (Part 17): 1984 RA 2017	
4	Chloride as Cl	mg/L	10.5	IS 3025 (Part 32): 1988 RA 2014 (Clause 2.0)	
4	Sulphate as SO <sub>4</sub>	mg/L	42.0	APHA 23rd Ed - 4500 SO 1- (E)4	
6	Chemical Oxygen Demand (COD)	mg/L	8.0	IS 3025 (Part 58): 2006 RA 2017	
7	Biological Oxygen demand (BOD)	mg/L	<3.0	IS 3025 (Part 44): 1993 RA 2014	
8	3days @27°C Oil & Grease	mg/L	<1.0	IS 3025(Part 39): 1991 RA 2014	

For M/s Nilawar Laboratories,

Renuka Yadav (Authorized Signatory)

Note:

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ISO 17025:2017 150 9001:2015 ISO 14001:2015 ISO 45001:2018 NABL ACCREDITED LAB Jan-2022

CIN No. U74140MH112009PTC196108

Report No.: GE-Nilawar/EMS/2021-22/Jan/32		Report Date: 09.02.2022		
Name & Address of the	Customer: M/s. Ambuja Cements Lim Add: Gare Palma IV/8 Coal			
	PO: Tamnar, Dist: Raigarh-	496111		
Sample Description	: Waste water	Sampling Location: ETP Outlet		
Sampling Ref Method	: IS 3025 (Part 1):1987 RA 2009	Environment Condition: Sunny (during sampling)		
Sampled by : GYAN Enviro Representative Sampling Date : 24.01.2022		Date of Analysis started : 28.01.2022		
		Date of Analysis completed: 02.02.2022		
Sample Receipt Date	: 27.01.2022	Testing Period : 6 Days		

#### **Analysis Report**

S. N	Test Parameters	Unit	Permissible Limit	Result	Test Method
1	pH at 25°C	-	5.5-8.5	7.73	1S 3025 (Part 11): 1983 RA 2017 (Clause 2.0)
2	Total Dissolved Solids	mg/L	<2100	186. 0	IS 3025 (Part 18): 1984 RA 2017
3	Total Suspended Solids	mg/L	<100	6.0	IS 3025 (Part 17): 1984 RA 2017
4	Chloride as Cl	mg/L	<600	12.0	IS 3025 (Part 32); 1988 RA 2014 (Clause 2.0)
5	Sulphate as SO <sub>4</sub>	mg/L	<1000	92.0	APHA 23 <sup>rd</sup> Ed - 4500 SO <sup>2</sup> - (E)4
6	Chemical Oxygen Demand	mg/L	<250	28.0	IS 3025 (Part 58): 2006 RA 2017
7	Biological Oxygen demand 3days @27°C	mg/L	<30	7.0	IS 3025 (Part 44): 1993 RA 2014
8	Oil & Grease	mg/L	<10	0.3	IS 3025(Part 39): 1991 RA 2014

For M/s Nilawar Laboratories,

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CIN No. U74140MH112009PTC196108

Report No.: GE-Nilawar/EMS/2821-22/Feb/GW/58	Report Date: 07.03.2022
Name & Address of the Customer: M/s. Ambuja Cements Lim Add: Gare Palma IV/8 Coal PO: Tamnar, Dist: Raigarb	ited, Mine, Vill: Khamaria
Sample Description : Ground water Sampling Ref Method : IS 3025 (Part 1):1987 RA 2009	Sampling Location: Well water at Khamriya Village (Mr Gupta House)
Sampled by : GYAN Enviro Representative	Environment Condition: Sunny (during sampling)
Sampling Date : 22.02.2022 Sample Receipt Date : 24.02.2022	Date of Analysis started : 26.02.2022
	Date of Analysis completed: 03.02.2022 Testing Period: 6 Days
Latitude : 22.16610N	Longitude : 83.50630 E

#### Results of Analysis

S.N.	Parameters	Unit		10500:1991	Values
		Cum	Desirable	Permissible	Result
1.	Color	Hazen	5	25	2.0
2.	Odour	UO	UO	UO	AG
3.	Taste	AG	AG	AG	AG
4.	Turbidity	NTU	5	10	3.4
5.	Total Dissolved Solids	mg/l	500	2000	224
6.	pH at 25 °C		6.5 - 8.5	NR	7.41
7.	Dissolved Oxygen (DO)	mg/L		-	4.6
8.	Biochemical Oxygen Demand	mg/L			<3.0
9.	Chemical Oxygen Demand	mg/L	-	-	8.0
10.	Conductivity	μS/cm	-		340.0
11.	Total Alkalinity as CaCO <sub>3</sub>	mg/L	200	600	120.0
12.	Total Hardness as CaCO;	mg/L	300		126.0
13.	Calcium as Ca	mg/L	75	200	30.0
14.	Magnesium as Mg	mg/L	30	100	12.0
15.	Chlorides as CI	mg/L	250	1000	38.2
16.	Sulphates as SO <sub>4</sub>	mg/L	200	400	40.7
17.	Fluoride as F	mg/L	1.0	1.5	0.213
18.	Nitrates as NO <sub>3</sub>	mg/L	45	NR	0.339
19.	Iron as Fe	mg/L	0.3	1.0	BDL

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ISO 17025:2017 150 9001:2015 ISO 14001:2015 ISO 45001:2018

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#### CIN No. U74140MH112009PTC196108

20.	Manganese as Mn	mg/L	0.1	0.3	< 0.01
21.	Zinc as Zn	mg/L	5.0	15.0	0.001
22.	Copper as Cu	mg/L	0.05	1.5	0.012
23.	Aluminum as Al	mg/L	0.03	0.2	< 0.01
24.	Boron as B	mg/L	1.0	5.0	0.045
25.	Total Coliform	MPN/100 ml	Absent	NR	5
26.	E. Coli	MPN/100 ml	Absent	NR	Absent
B.	TOXIC SUBSTANCES	-			
27.	Cadmium & its Compounds	mg/L	0.01	NR	< 0.005
28.	Arsenic & its Compounds	mg/L	0.01	NR	< 0.005
29.	Lead & its Compounds as Pb	mg/L	0.05	NR	< 0.001
30.	Chromium & its Compounds	mg/L	0.05	NR	< 0.01

For M/s Nilawar Laboratories,

THE NAME OF THE PARTY OF Renuka Yaday (Authorized Signatory)

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CIN No. U74140MH112009PTC196108

Report No.: GE-Nilawar/EMS/2021-22/Feb/GW/59	Report Date: 07.03,2022
Name & Address of the Customer: M/s. Ambuja Cements Lin Add: Gare Palma IV/8 Coal PO: Tamnar, Dist: Raigarh	Mine, Vill: Khamaria
Sample Description : Ground water	Sampling Location: Well water at Kharwahi Village
Sampling Ref Method : IS 3025 (Part 1):1987 RA 2009	Environment Condition: Sunny (during sampling)
Sampled by : GYAN Enviro Representative Sampling Date : 22.02.2022 Sample Receipt Date : 24.02.2022	Date of Analysis started : 26.02.2022 Date of Analysis completed: 03.02.2022 Testing Period : 6 Days
Latitude : 22.169641N	Longitude : 83.53628 E

#### Results of Analysis

S.N.	Parameters	Unit	As per IS 10500:1991		Values
1520	CONTRACTOR OF THE PROPERTY OF	C/MIN	Desirable	Permissible	Result
1.	Color	Hazen	5	25	2.0
2.	Odour	UO	UO	UO	AG
3.	Taste	AG	AG	AG	AG
4.	Turbidity	NTU	5	10	7.13
5.	Total Dissolved Solids	mg/l	500	2000	528
6.	pH at 25 °C	Ar	6.5 - 8.5	NR	7.13
7.	Dissolved Oxygen (DO)	mg/L	-		4.0
8.	Biochemical Oxygen Demand	mg/L	-	-	<3.0
9.	Chemical Oxygen Demand	mg/L	-		12.0
10.	Conductivity	μS/cm	-		800.0
11.	Total Alkalinity as CaCO <sub>3</sub>	mg/L	200	600	185
12.	Total Hardness as CaCO <sub>3</sub>	mg/L 300		600	208
13.	Calcium as Ca	mg/L	75 200	200	49.9 19.8
14.	Magnesium as Mg	mg/L	30	100	
15.	Chlorides as Cl	mg/L	250	1000	115
16.	Sulphates as SO <sub>4</sub>	mg/L	200	400	45.4
17.	Fluoride as F	mg/L	1.0	1.5	0.156
18.	Nitrates as NO <sub>3</sub>	mg/L	45	NR	20.0
19.	Iron as Fe	mg/L	0.3	1.0	BDL
20.	Manganese as Mn	mg/L	0.1	0.3	< 0.01

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NABL ACCREDITED LAB

#### CIN No. U74140MH112009PTC196108

21.	Zinc as Zn	mg/L	5.0	15.0	0.011
22.	Copper as Cu	mg/L	0.05	1.5	0.008
23.	Aluminum as Al	mg/L	0.03	0.2	< 0.01
24.	Boron as B	mg/L	1.0	5.0	0.032
25.	Total Coliform	MPN/100 ml	Absent	NR	9
26.	E. Coli	MPN/100 ml	Absent	NR	Absent
B.	TOXIC SUBSTANCES				
27.	Cadmium & its Compounds	mg/L	0.01	NR	< 0.005
28.	Arsenic & its Compounds	mg/L	0.01	NR	< 0.005
29.	Lead & its Compounds as Pb	mg/L	0.05	NR	< 0.001
30.	Chromium & its Compounds	mg/L	0.05	NR	< 0.01

For M/s Nilawar Laboratories,

Renuka Yaday (Authorized Signatory)

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#### CIN No. U74140MH112009PTC196108

Report No.: GE-Nilawar/EMS/2021-22/Mar/320 Report Date: 08/04/2022

Name & Address of the Customer: M/s. Ambuja Cements Limited,

Add: Gare Palma IV/8 Coal Minc, Vill: Khamaria

PO: Tamnar, Dist: Raigarh-496111

Sample Description : Ground water

Sampling Ref Method :IS 3025 (Part 1):1987 RA 2009

: GYAN Enviro Representative Sampled by Sampling Date :11.03.2022

Latitude

Sample Receipt Date :14.03.2022

22.16610N

Sampling Location: Well water at Khamriya Village

(Mr Gupta House)

Environment Condition: Sunny (during sampling)

Date of Analysis started Date of Analysis completed: 22.03.2022

:16.03.2022

:6 Days

Testing Period 83.50630E Longitude

#### Results of Analysis

S.N.	Parameters	Unit	As per IS 10500:1991		Values	
.71170	1 at attacters		Desirable	Permissible	Result	
1.	Color	Hazen	5	25	2.2	
2.	Odour	UO	UO	UO	AG	
3.	Taste	AG	AG	AG	AG	
4.	Turbidity	NTU	5	10	6.7	
5.	Total Dissolved Solids	mg/l	500	2000	188.0	
6.	pH at 25 °C		6.5 – 8.5	NR	7.26 4.0 <3.0	
7.	Dissolved Oxygen (DO)	mg/L		-		
8.	Biochemical Oxygen Demand	mg/L	- 4			
9.	Chemical Oxygen Demand	mg/L	- 0		8.0	
10.	Conductivity	μS/cm	-		285	
11.	Total Alkalinity as CaCO <sub>3</sub>	mg/L	200	600	40.0	
12.	Total Hardness as CaCO <sub>3</sub>	mg/L	300	600	124.0 29.8 12.0	
13.	Calcium as Ca	mg/L	75	200		
14.	Magnesium as Mg	mg/L	30	100		
15.	Chlorides as Cl	mg/L	250	1000	16.1	
16.	Sulphates as SO <sub>4</sub>	mg/L	200	400	7.81	
17.	Fluoride as F	mg/L	1.0	1.5	0.058	
18.	Nitrates as NO <sub>3</sub>	mg/L	45	NR	1.04	
9.	Iron as Fe	mg/L	0.3	1.0	0.068	
20.	Manganese as Mn	mg/L	0.1	0.3	<0.01	

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#### CIN No. U74140MH112009PTC196108

21.	Zinc as Zn	mg/L	5.0	15.0	0.389
22.	Copper as Cu	mg/L	0.05	1.5	0.006
23.	Aluminum as Al	mg/L	0.03	0.2	< 0.01
24.	Boron as B	mg/L	1.0	5.0	0.016
25.	Total Coliform	MPN/100 ml	Absent	NR	5
26.	E. Coli	MPN/100 ml	Absent	NR	Absent
В.	TOXIC SUBSTANCES				
27.	Cadmium & its Compounds	mg/L	0.01	NR	< 0.005
28.	Arsenic & its Compounds	mg/L	0.01	NR	< 0.005
29.	Lead & its Compounds as Pb	mg/L	0.05	NR	< 0.001
30.	Chromium & its Compounds	mg/L	0.05	NR	< 0.01

For M/s Nilawar Laboratories,

Renuka Yaday (Authorized Signatory)

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4. NR-no relaxation; AG-agreeable; NA- not applicable; BDL-Below detection limit

Report Date: 08/04/2022



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CIN No. U74140MH112009PTC196108

Report No.: GE-Nilawar/EMS/2021-22/Mar/321

Name & Address of the Customer: M/s. Ambuja Cements Limited,

Add: Gare Palma IV/8 Coal Mine, Vill: Khamaria

PO: Tamnar, Dist: Raigarh-496111

Sample Description : Waste water

Sampling Ref Method : IS 3025 (Part 1):1987 RA 2009

Sampled by

: GYAN Enviro Representative

Sampling Date :11.03.2022 Sample Receipt Date: 14.03.2022 Sampling Location: Mine Seepage Water

Environment Condition: Sunny (during sampling)

Date of Analysis started

:16.03.2022

Date of Analysis completed: 22.03.2022 Testing Period

:6 Days

#### Analysis Report

S. N	Test Parameters	Unit	Permissible Limit	Result	Test Method
1	pH at 25°C	-	5.5-8.5	8.08	IS 3025 (Part 11): 1983 RA 2017 (Clause 2.0)
2	Total Dissolved Solids	mg/L	<2100	211.0	IS 3025 (Part 18): 1984 RA 2017
3	Total Suspended Solids	mg/L	<100	21.0	IS 3025 (Part 17): 1984 RA 2017
4	Chloride as Cl	mg/L	<600	17.1	IS 3025 (Part 32): 1988 RA 2014 (Clause 2.0)
5	Sulphate as SO <sub>4</sub>	mg/L	<1000	20.2	APHA 23 <sup>rd</sup> Ed - 4500 SO <sup>2</sup> - (E)4
6	Chemical Oxygen Demand	mg/L	<250	104.0	IS 3025 (Part 58): 2006 RA 2017
7	Biological Oxygen demand 3days @27°C	mg/L	<30	24.0	IS 3025 (Part 44): 1993 RA 2014
8	Oil & Grease	mg/L	<10	0.38	IS 3025(Part 39); 1991 RA 2014

For M/s Nilawar Laboratories,



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MoEF RECOGNIZED ENVIRONMENTAL LABORATORY VALIDITY UPTO 08 02 2022 April-2021

Ref. No:MEPL/Lab/Cons/EMS/ACL-Gare/2020-21/Apr-21/AA-54

## ENVIRONMENT MONITORING REPORT

Name of Industry

Ambuja Cements Limited

Address

Gare Palma IV/8 Coal Mine, Vill: Khamariya

PO: Tamnar, Dist: Raigarh-496111

Date of Sampling

14.04.2021

Date of Report

16.04.2021

Type of Work

Ambient Air Quality Monitoring

Direction from site

Within site

Distance from site

Nil

Latitude Longitude

22.169931N

83.494959E

(24 hrs sampling)

Sr. No.	Parameters	Reference	NAAQM*	Values
-		Method	Standards	AAQ-1
1.	Particulate Matter (PM <sub>10</sub> )		100	68.4
2.	Particulate Matter (PM <sub>2.5</sub> )		60	24.6
3.	Sulphur Dioxide (SO <sub>2</sub> )		80	14.4
4.	Oxides of Nitrogen (NOx)		80	18.2
5.	Carbon Monoxide (CO)#	IS 5182	4000	496.0
6.	Lead (Pb)		1.0	< 0.01
7.	Arsenic (As)		0.006	<0.002
8.	Nickel (Ni)		0.02	<0.002
9.	Mercury (Hg)		0.02	<0.001

Note: Sampling Station (AAQ-1): At Site Office (Core Zone)

\* NAAQMS- National Ambient Air Quality Monitoring Standards (MoEF notification 2009) All values are in μg/m³; \* One hour monitoring.

For SMB Phygcare Ltd,

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15 C No. 148/2180010888
Ph. 0712 - 7125000, 7125200 Fax: 0712 - 6665100, Web.: www.smst.co.in





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# Ref. No: MEPL/Lab/Cons/EMS/ACL-Gare/2020-21/Apr-21/AA-55

# ENVIRONMENT MONITORING REPORT

Name of Industry Ambuja Cements Limited

Address Gare Palma IV/8 Coal Mine, Vill: Khamariya

PO: Tamnar, Dist: Raigarh-496111

Date of Sampling

14.04.2021

Date of Report

16.04.2021

Type of Work

Ambient Air Quality Monitoring

Direction from site Distance from site

North 310 Mtr

Latitude

22.178831N

Longitude

83.508995E

Sr.				(24 hrs sampling
No.	Description	Reference	NAAQM*	Values
		Method	Standards	AAQ-2
2.			100	58.6
-	Particulate Matter (PM <sub>2.5</sub> )		60	23.4
3.	Sulphur Dioxide (SO <sub>2</sub> )		80	16.6
4.	Oxides of Nitrogen (NO <sub>x</sub> )	1 1	80	21.2
5.	Carbon Monoxide (CO)#	IS 5182	4000	
6.	Lead (Pb)	1		494.0
7.	Arsenic (As)	1 1	1.0	< 0.01
8.	Nickel (Ni)		0.006	< 0.001
9.			0.02	< 0.001
	Mercury (Hg)			< 0.001

Sampling Station (AAQ-2): At Banjari Temple (Buffer Zone)

\* NAAQMS- National Ambient Air Quality Monitoring Standards (MoEF notification 2009) All values are in µg/m3; " One hour monitoring

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April-2.21

Ref. No:MEPL/Lab/Cons/EMS/ACL-Gare/2020-21/Apr-21/AA-56

# ENVIRONMENT MONITORING REPORT

Name of Industry Ambuja Cements Limited

Gare Palma IV/8 Coal Mine, Vill: Khamariya Address

PO: Tamnar, Dist: Raigarh-496111

Date of Sampling

14.04.2021

Date of Report

16.04.2021

Type of Work

Ambient Air Quality Monitoring

Direction from site

North -West

Distance from site

460 mtr

Latitude

22.161729N

Longitude

83.498074E

(24 hrs sampling)

Sr.		Reference	NAAQM*	Values
No.	Parameters	Method	Standards	AAQ-3
1.	Particulate Matter (PM <sub>10</sub> )		100	56.2
2.	Particulate Matter (PM25)		60	23.6
3.	Sulphur Dioxide (SO <sub>2</sub> )		80	17.6
4.	Oxides of Nitrogen (NOx)	IS 5182	80	21.6
5.	Carbon Monoxide (CO)*		4000	496.0
6.	Lead (Pb)		1.0	< 0.01
7.	Arsenic (As)		0.006	< 0.001
8.	Nickel (Ni)		0.02	< 0.001
9.	Mercury (Hg)		-	< 0.001
7. 8.	Arsenic (As) Nickel (Ni)		0.006	

Note:

Sampling Station (AAQ-3): Khamariya village (Buffer Zone)

\* NAAQMS- National Ambient Air Quality Monitoring Standards (MoEF notification 2009) All values are in µg/m3; " One hour monitoring

Bywocare Ltd,

ed Signatory

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(NAGPUR UNIT)



April-2021

Ref. No: MEPL/Lab/Cons/EMS/ACL-Gare/2020-21/Apr-21/AA-57

# ENVIRONMENT MONITORING REPORT

Name of Industry

Ambuja Cements Limited

Address

Gare Palma IV/8 Coal Mine, Vill: Khamariya

PO: Tamnar, Dist: Raigarh-496111

Date of Sampling

14.04.2021

Date of Report

16.04.2021

Type of Work

Ambient Air Quality Monitoring

Direction from site Distance from site

East

Latitude

400 mtr 22.162807N

Longitude

83.504231E

Sr.		(24 nrs samplin		
No.	Parameters	Reference	NAAQM*	Values
1.	Partia I a Maria	Method	Standards	AAQ-4
	Particulate Matter (PM <sub>10</sub> )		100	57.2
2.	Particulate Matter (PM25)		60	23.6
3.	Sulphur Dioxide (SO <sub>2</sub> )		80	18.2
4.	Oxides of Nitrogen (NO <sub>x</sub> )	IS 5182	80	
5.	Carbon Monoxide (CO)#		4000	20.8
6.	Lead (Pb)	15 5162		498.0
		4 1	1.0	< 0.01
7.	Arsenic (As)	4	0.006	< 0.002
8.	Nickel (Ni)		0.02	
9.	Mercury (Hg)	1	0.02	< 0.001
	C. II G		-	< 0.001

Sampling Station (AAQ-4): NrSchool, Rampura village (Buffer Zone)

\* NAAQMS- National Ambient Air Quality Monitoring Standards (MoEF notification 2009) All values are in µg/m3; \* One hour monitoring

For SMS Elmocare Ltd,

Note:

His Teport refers only to the sample submitted for testing.

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ISB 14001 : 2015 C No. : 491718/001/UKEn

Site Off.: CHW01, Mandwa, Butibori Ind. Estate, Butibori, Nagpur. Landine M.: 8805947186, 9923037416

Head Office: 20, IT Park, Parsodi, Naggur - 448 022, Maharashtra (India) Ph. 0712 - 7125000, 7125200 Fax : 0712 - 6665100, Web. : www.smsl.co.in 



Longitude







# ENVIRONMENT MONITORING REPORT

Name of Industry : Ambuja Cements Limited

Address : Gare Palma IV/8 Coal Mine, Vill: Khamariya

PO: Tamnar, Dist: Raigarh-496111

 Date of Sampling
 : 14.04.2021

 Date of Report
 : 16.04.2021

Type of Work : Ambient Air Quality Monitoring

83.497756E

Direction from site : South
Distance from site : 280 mtr
Latitude : 22.166381N

(24 hrs sampling)

Sr.	Parameters	Reference	NAAQM*	Values
No.	- arameters	Method	Standards	AAQ-5
I.	Particulate Matter (PM <sub>10</sub> )		100	57.4
2.	Particulate Matter (PM2.5)		60	22.6
3.	Sulphur Dioxide (SO <sub>2</sub> )		80	16.2
4.	Oxides of Nitrogen (NOx)		80	21.4
5.	Carbon Monoxide (CO)"	IS 5182	4000	474.0
6.	Lead (Pb)		1.0	< 0.01
7.	Arsenic (As)		0.006	< 0.001
8.	Nickel (Ni)		0.02	< 0.001
9.	Mercury (Hg)		-	< 0.001

Note: Sampling Station (AAQ-5): At Durga House (Buffer Zone)

\* NAAQMS- National Ambient Air Quality Monitoring Standards (MoEF notification 2009)
All values are in µg/m³; " One hour monitoring

For sans 54 Wagang Ltd,

Authorized Signizory

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Head Office: 20, IT Park, Parsodi, Naggur - 440 022, Maharashtra (India) 150 14001 : 2015 C No.: 48121(80010006) Ph. 0712 - 7125000, 7125200 Fax: 0712 - 6665100, Web.: www.smsl.co.in 08585 18001 : 2007 C No.: 48121(2001006) CIN-: U40105MH2005PLC150780



(NAGPUR UNIT)



Longitude: 83.494959E

ISO 17025:2005 ISO 9001:2015 ISO OHSAS 18001:2007 NABL ACCREDITED LAB

CIN No. U74140MH112009PTC196108

Report Date: 21.05.2021 Report No.: GE-Nilawar/EMS/2021/May/28 Name & Address of the Customer: M/s. Ambuja Cements Limited, Add: Gare Palma IV/8 Coal Mine, Vill: Khamaria PO: Tamnar, Dist: Raigarh-496111 Sampling Location: At Site Office [Core Zone] Sample Description : Ambient Air Sample : IS 5182 (Part 14) :2000 RA 2010 Environment Condition: Sunny (during sampling) Sampling Ref Method : GYAN Enviro Representative Sampled by Date of Analysis started : 16.05.2021 Sampling Date : From 14.05.2021 to 15.05.2021 Date of Analysis completed: 18.05.2021 : 16.05.2021 Sample Receipt Date : 3 Days Testing Period Within site Direction from site Latitude: 22.169931 N

Distance from site

Nil

### Results of Analysis

S.N	Test Parameters	Unit	Permissible Limit	AAQ-1 Result	Test Method
t.	Particulate Matter size less than 10 um ( PM <sub>10</sub> )	μg/m³	100	58.7	USEPA - 40 CFR Part 50 (Appendix O)
2.	Particulate Matter size less than 2.5 μm (PM <sub>2.5</sub> )	$\mu g/m^3$	60	22.4	USEPA - 40 CFR Part 50 (Appendix O)
3.	Sulphur Dioxide (SO <sub>2</sub> )	$\mu g/m^3$	80	14.2	IS 5182 (Part 2): 2001 RA 2017
4.	Nitrogen Dioxide (NO <sub>2</sub> )	μg/m³	80	18.9	IS 5182 (Part 6): 2006 RA 2017
5.	Carbon Monoxide (as CO)*	μg/m³	4000	480.0	IS 5182 (Part 10): 1999 RA 2014 (Clause 5.0)
6.	Lead ( Pb )*	μg/m³	1.0	BDL	IS 5182 (Part 22): 2004 RA 2014 (Clause 5.0)
7.	Arsenic (as As) *	μg/m³	6.0	<0.2	IS 5182 (Part 22): 2004 RA 2014 (Clause 5.0)
8.	Nickel (as Ni) *	μg/m³	20.0	BDL	IS 5182 (Part 22): 2004 RA 2014 (Clause 5.0)
9.	Mercury (Hg)	μg/m³	- 70	<0.01	IS 5182 (Part 22): 2004 RA 2014 (Clause 5.0)

NAAQMS- National Ambient Air Quality Monitoring Standards (MoEF notification 2009)

All values are in µg/m3

BDL: Below Detectable Limit and 24 Hrs sampling

For M/s Nilawar Laboratories,

Renuka Yadav (Authorized Signatory)

Note -

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The results listed referred to the tested samples send by customer and applicable parameters onlyOur liability is limited to the commercial value of the test/tests corried out.

eth. Nagour - 10. Ph. +91-712-2542261, 2542291, E-mail : Off.: First Floor: Pratible Sensul'. Beside Alankar Cinema. Dhara: Laboratory: At Kim 16.5, Milawar Motors Complex, Amray pur - 640 023 Mob. +91-9922409055, 9552550



CIN No. U74140MH112009PTC196108

Report Date: 21.05.2021 Report No.: GE-Nilawar/EMS/2021/May/28 Name & Address of the Customer: M/s. Ambuja Cements Limited, Add: Gare Palma IV/8 Coal Mine, Vill: Khamaria PO: Tamnar, Dist: Raigarh-496111 Sampling Location: At Banjari Temple (Buffer Zone) : Ambient Air Sample Sample Description : IS 5182 (Part 14) :2000 RA 2010 Sampling Ref Method Environment Condition: Sunny (during sampling) : GYAN Enviro Representative : 16.05.2021 Sampled by Date of Analysis started : From 14.05.2021 to 15.05.2021 Sampling Date Date of Analysis completed: 18.05.2021 : 16.05.2021 Sample Receipt Date : 3 Days Testing Period North Direction from site Latitude 22.178831 N 310 Mtr 83.508995 Distance from site Longitude

### Results of Analysis

S.N	Test Parameters	Unit	Permissible Limit	AAQ-2 Result	Test Method
1.	Particulate Matter size less than 10 µm ( PM <sub>10</sub> )	μg/m³	100	59.0	USEPA - 40 CFR Part 50 (Appendix O)
2.	Particulate Matter size less than 2.5 µm (PM <sub>2.5</sub> )	μg/m³	60	20.8	USEPA - 40 CFR Part 50 (Appendix O)
3.	Sulphur Dioxide (SO <sub>2</sub> )	μg/m³	80	12.6	IS 5182 (Part 2): 2001 RA 2017
4.	Nitrogen Dioxide (NO <sub>2</sub> )	μg/m³	80	19.0	IS 5182 (Part 6): 2006 RA 2017
5.	Carbon Monoxide (as CO)*	μg/m³	4000	490.0	IS 5182 (Part 10): 1999 RA 2014 (Clause 5.0)
6.	Lead (Pb)*	$\mu g/m^3$	1.0	< 0.01	IS 5182 (Part 22): 2004 RA 2014 (Clause 5.0)
7.	Arsenic (as As) *	μg/m³	6.0	< 0.001	IS 5182 (Part 22): 2004 RA 2014 (Clause 5.0)
8.	Nickel (as Ni) •	μg/m³	20.0	< 0.001	IS 5182 (Part 22): 2004 RA 2014 (Clause 5.0)
9.	Mercury (Hg)	μg/m <sup>3</sup>		< 0.001	IS 5182 (Part 22): 2004 RA 2014 (Clause 5.0)

- NAAQMS- National Ambient Air Quality Monitoring Standards (MoEF notification 2009)
- All values are in µg/m3
- **BDL: Below Detectable Limit**
- 24 Hrs sampling

For M/s Nilawar Laboratories,



### RenukaYadav (Authorized Signatory)

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CIN No. U74140MH112009PTC196108

Report No.: GE-Nilawa	r/EMS/2021/May/28	Report Date: 21.05.20		
	Customer: M/s. Ambuja Cements Li Add: Gare Palma IV/8 Coa PO: Tamnar, Dist: Raigar	al Mine, Vill: Khamaria		
Sample Description Sampling Ref Method	: Ambient Air Sample : 1S 5182 (Part 14) :2000 RA 2010	Sampling Location: At Khamaria village (Buffer Zone)		
Sampled by Sampling Date	: GYAN Enviro Representative : From 14.05.2021 to 15.05.2021	Environment Condition: Sunny (during sampling)  Date of Analysis started : 16.05.2021		
Sample Receipt Date	: 16.05.2021	Date of Analysis completed: 18.05.2021 Testing Period: 3 Days		
Latitude Longitude	: 22.161729 N : 83.498074 E	Direction from site : North -West  Distance from site : 460 mt		

### Results of Analysis

S.N	Test Parameters	Unit	Permissible Limit	AAQ-3 Result	Test Method
1,	Particulate Matter size less than 10 µm ( PM <sub>10</sub> )	μg/m³	100	55.4	USEPA - 40 CFR Part 50 (Appendix O)
2.	Particulate Matter size less than 2.5 µm (PM <sub>2.5</sub> )	μg/m³	60	20.7	USEPA - 40 CFR Part 50 (Appendix O)
3.	Sulphur Dioxide (SO <sub>2</sub> )	$\mu g/m^3$	80	13.5	IS 5182 (Part 2): 2001 RA 2017
4.	Nitrogen Dioxide (NO <sub>2</sub> )	μg/m³	80	17.2	IS 5182 (Part 6): 2006 RA 2017
5.	Carbon Monoxide (as CO)*	μg/m³	4000	510.0	IS 5182 (Part 10) : 1999 RA 2014 (Clause 5.0)
6.	Lead ( Pb )*	μg/m³	1.0	<0.01	IS 5182 (Part 22): 2004 RA 2014 (Clause 5.0)
7.	Arsenic (as As) *	$\mu g/m^3$	6.0	< 0.001	IS 5182 (Part 22): 2004 RA 2014 (Clause 5.0)
8.	Nickel (as Ni) *	μg/m³	20.0	< 0.001	IS 5182 (Part 22): 2004 RA 2014 (Clause 5.0)
9.	Mercury (Hg)	μg/m³	-	< 0.001	IS 5182 (Part 22): 2004 RA 2014 (Clause 5.0)

- NAAQMS- National Ambient Air Quality Monitoring Standards (MoEF notification 2009)
- All values are in µg/m3
- **BDL**: Below Detectable Limit
- 24 Hrs sampling

For M/s Nilawar Laboratories,



# RenukaYadav (Authorized Signatory)

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rpeft, Nagpur - 10. Ph. -91-712-2542261, 2542291, E-mail milemeriabe@gr # Moed, Wedchamne, Nagpur -440.023, Meb. +91-9922409055, 9552550955 Laboratory : At Km 16.5, Nilawar Motors Co.



83.504231 E

CIN No. U74140MH112009PTC196108

Report Date: 21.05.2021 Report No.: GE-Nilawar/EMS/2021/May/28 Name & Address of the Customer: M/s. Ambuja Cements Limited, Add: Gare Palma IV/8 Coal Mine, Vill: Khamaria PO: Tamnar, Dist: Raigarh-496111 Sampling Location: Nr School, Rampura village (Buffer Sample Description : Ambient Air Sample Sampling Ref Method : IS 5182 (Part 14) :2000 RA 2010 Zone) Sampled by : GYAN Enviro Representative Environment Condition: Sunny (during sampling) Sampling Date : From 14.05.2021 to 15.05.2021 Date of Analysis started :16.05.2021 Sample Receipt Date : 16.05.2021

Distance from site

400 mtr

Date of Analysis completed: 18.05.2021 Testing Period : 3 Days Latitude 22.162807 N Direction from site East Longitude

### Results of Analysis

S.N	Test Parameters	Unit	Permissible Limit	AAQ-4 Result	Test Method
1.	Particulate Matter size less than 10 µm ( PM <sub>10</sub> )	μg/m³	100	56.0	USEPA - 40 CFR Part 50 (Appendix O)
2.	Particulate Matter size less than 2.5 µm (PM <sub>2.5</sub> )	μg/m³	60	21.2	USEPA - 40 CFR Part 50 (Appendix O)
3.	Sulphur Dioxide (SO <sub>2</sub> )	μg/m³	80	13.0	IS 5182 (Part 2): 2001 RA 2017
4.	Nitrogen Dioxide (NO2)	μg/m³	80	16.5	IS 5182 (Part 6): 2006 RA 2017
5.	Carbon Monoxide (as CO)*	μg/m³	4000	485.0	IS 5182 (Part 10): 1999 RA 2014 (Clause 5.0
6.	Lead ( Pb )*	μg/m³	1.0	< 0.01	IS 5182 (Part 22): 2004 RA 2014 (Clause 5.0)
7.	Arsenic (as As) *	μg/m³	6.0	< 0.002	IS 5182 (Part 22): 2004 RA 2014 (Clause 5.0)
8.	Nickel (as Ni) *	μg/m³	20.0	< 0.001	IS 5182 (Part 22): 2004 RA 2014 (Clause 5.0)
9.	Mercury (Hg)	μg/m³	-	< 0.001	IS 5182 (Part 22): 2004 RA 2014 (Clause 5.0)

NAAQMS- National Ambient Air Quality Monitoring Standards (MoEF notification 2009)

All values are in µg/m3

**BDL: Below Detectable Limit** 

24 Hrs sampling

For M/s Nilawar Laboratories,



RenukaYadav (Authorized Signatory)

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CIN No. U74140MH112009PTC196108

Report Date: 21.05.2021 Report No.: GE-Nilawar/EMS/2021/May/28 Name & Address of the Customer: M/s. Ambuja Cements Limited, Add: Gare Palma IV/8 Coal Mine, Vill: Khamaria PO: Tamnar, Dist: Raigarh-496111 Sampling Location: At Durga House (Buffer Zone) : Ambient Air Sample Sample Description : IS 5182 (Part 14) :2000 RA 2010 Environment Condition: Sunny (during sampling) Sampling Ref Method : 16.05.2021 : GYAN Enviro Representative Sampled by Date of Analysis started : From 14.05.2021 to 15.05.2021 Sampling Date Date of Analysis completed: 18.05.2021 : 16.05.2021 Sample Receipt Date 3 Days Testing Period South Direction from site 22.166381 N Latitude 280 mtr Distance from site Longitude 83.497756 E.

### Results of Analysis

S.N	Test Parameters	Unit	Permissible Limit	AAQ-5 Result	Test Method
1,	Particulate Matter size less than 10 µm ( PM <sub>10</sub> )	μg/m³	100	54.0	USEPA - 40 CFR Part 50 (Appendix O)
2.	Particulate Matter size less than 2.5 µm (PM <sub>2.5</sub> )	μg/m³	60	20.8	USEPA - 40 CFR Part 50 (Appendix O)
3.	Sulphur Dioxide (SO <sub>2</sub> )	μg/m³	80	12.5	IS 5182 (Part 2): 2001 RA 2017
4.	Nitrogen Dioxide (NO <sub>2</sub> )	μg/m <sup>3</sup>	80	18.0	IS 5182 (Part 6): 2006 RA 2017
5.	Carbon Monoxide (as CO)*	μg/m³	4000	467.0	IS 5182 (Part 10): 1999 RA 2014 (Clause 5.0)
6.	Lead ( Pb )*	μg/m³	1.0	<0.01	IS 5182 (Part 22): 2004 RA 2014 (Clause 5.0)
7.	Arsenic (as As) *	μg/m³	6.0	< 0.001	IS 5182 (Part 22): 2004 RA 2014 (Clause 5.0)
8.	Nickel (as Ni) *	$\mu g/m^3$	20.0	< 0.001	IS 5182 (Part 22): 2004 RA 2014 (Clause 5.0)
9.	Mercury (Hg)	μg/m³		< 0.001	IS 5182 (Part 22): 2004 RA 2014 (Clause 5.0)

- NAAQMS- National Ambient Air Quality Monitoring Standards (MoEF notification 2009)
- All values are in µg/m³
- BDL: Below Detectable Limit and 24 Hrs sampling

For M/s Nilawar Laboratories,



## RenukaYadav (Authorized Signatory)

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CIN No. U74140MH112009PTC196108

Report Date: 03.07.2021 Report No.: GE-Nilawar/EMS/2021/June /16 Name & Address of the Customer: M/s. Ambuja Cements Limited, Add: Gare Palma IV/8 Coal Mine, Vill; Khamaria PO: Tamnar, Dist: Raigarh-496111 Sampling Location: At Site Office [Core Zone] : Ambient Air Sample Sample Description : IS 5182 (Part 14) :2000 RA 2010 Sampling Ref Method Environment Condition: Sunny (during sampling) : GYAN Enviro Representative Sampled by : 30.06.2021 Date of Analysis started : From 28.06.2021 to 29.06.2021 Sampling Date Date of Analysis completed: 02.07.2021 : 30.06.2021 Sample Receipt Date 3 Days Testing Period Within site Latitude: 22.169931 N Direction from site Nil Distance from site Longitude: 83.494959E

### Results of Analysis

S.N	Test Parameters	Unit	Permissible Limit	AAQ-1 Result	Test Method
1.	Particulate Matter size less than 10 µm ( PM <sub>10</sub> )	μg/m³	100	55.1	USEPA - 40 CFR Part 50 (Appendix O)
2.	Particulate Matter size less than 2.5 µm (PM25)	μg/m <sup>3</sup>	60	20.8	USEPA - 40 CFR Part 50 (Appendix O)
3.	Sulphur Dioxide (SO <sub>2</sub> )	μg/m³	80	12.4	IS 5182 (Part 2): 2001 RA 2017
4.	Nitrogen Dioxide (NO2)	μg/m³	80	16.9	IS 5182 (Part 6): 2006 RA 2017
5.	Carbon Monoxide (as CO)*	μg/m³	4000	450.0	IS 5182 (Part 10): 1999 RA 2014 (Clause 5.0)
6.	Lead ( Pb )*	μg/m³	1.0	BDL	IS 5182 (Part 22): 2004 RA 2014 (Clause 5.0)
7.	Arsenic (as As) *	μg/m³	6.0	<0.2	IS 5182 (Part 22): 2004 RA 2014 (Clause 5.0)
8.	Nickel (as Ni) *	μg/m³	20.0	BDL	IS 5182 (Part 22): 2004 RA 2014 (Clause 5.0)
9.	Mercury (Hg)	$\mu g/m^3$	**	< 0.01	IS 5182 (Part 22): 2004 RA 2014 (Clause 5.0)

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- BDL: Below Detectable Limit and 24 Hrs sampling

For M/s Nilawar Laboratories,



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Off.: First Floor. Pretibha Sankuf, Beside Alankar Cinema, Dharampeth, Nagour - 10. Ph.: +91-712-2542261, 2542291, E-mail: nitewerlabs@gmail.com Laboratory: Al Km 16.5, Nilewar Motors Correlax, Annavati Road, Waddhamna, Nagour - 440 023, Mob.: +91-9922409055, 9552550955



CIN No. U74140MH112009PTC196108

Report No.: GE-Nilawa	r/EMS/2021/June /16	Report Date: 03.07.202				
Name & Address of the	Customer: M/s. Ambuja Cements Lit Add: Gare Palma IV/8 Coa PO: Tamnar, Dist: Raigar	l Mine, Vill: Khamaria				
Sample Description	: Ambient Air Sample	Sampling Location: At Banjari Temple (Buffer Zone)				
Sampling Ref Method	: IS 5182 (Part 14) :2000 RA 2010	Environment Condition: Sunny (during sampling)				
Sampled by Sampling Date Sample Receipt Date	: GYAN Enviro Representative : From 28.06,2021 to 29.06.2021 : 30.06.2021	Date of Analysis started : 30.06.2021 Date of Analysis completed: 02.07.2021 Testing Period : 3 Days				
Latitude	: 22.178831 N	Direction from site : North				
Longitude	: 83.508995	Distance from site : 310 Mtr				

### Results of Analysis

S.N	Test Parameters	Unit	Permissible Limit	AAQ-2 Result	Test Method
1.	Particulate Matter size less than 10 µm ( PM <sub>10</sub> )	μg/m³	100	56.8	USEPA - 40 CFR Part 50 (Appendix O)
2.	Particulate Matter size less than 2.5 µm (PM <sub>2.5</sub> )	μg/m³	60	20.2	USEPA - 40 CFR Part 50 (Appendix O)
3.	Sulphur Dioxide (SO <sub>2</sub> )	μg/m³	80	11.0	IS 5182 (Part 2): 2001 RA 2017
4.	Nitrogen Dioxide (NO <sub>2</sub> )	μg/m³	80	17.5	IS 5182 (Part 6): 2006 RA 2017
5.	Carbon Monoxide (as CO)*	μg/m³	4000	482.0	IS 5182 (Part 10): 1999 RA 2014 (Clause 5.0)
6.	Lead ( Pb )*	μg/m³	1.0	< 0.01	IS 5182 (Part 22): 2004 RA 2014 (Clause 5.0)
7.	Arsenic (as As) *	μg/m³	6.0	< 0.001	IS 5182 (Part 22): 2004 RA 2014 (Clause 5.0)
8.	Nickel (as Ni) *	μg/m³	20.0	< 0.001	IS 5182 (Part 22): 2004 RA 2014 (Clause 5.0)
9.	Mercury (Hg)	μg/m³	-	< 0.001	IS 5182 (Part 22): 2004 RA 2014 (Clause 5.0)

- NAAQMS- National Ambient Air Quality Monitoring Standards (MoEF notification 2009)
- All values are in μg/m3
- **BDL: Below Detectable Limit**
- 24 Hrs sampling

### For M/s Nilawar Laboratories,



# RenukaYadav (Authorized Signatory)

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CIN No. U74140MH112009PTC196108

Report No.: GE-Nilawa	r/EMS/2021/June /16	Report Date: 03.07.2021				
Name & Address of the	Customer: M/s. Ambuja Cements Lit Add: Gare Palma IV/8 Coa PO: Tamnar, Dist: Raigar	l Mine, Vill: Khamaria				
Sample Description Sampling Ref Method	: Ambient Air Sample : IS 5182 (Part 14) :2000 RA 2010	Sampling Location: At Khamaria village (Buffer Zone)				
Sampled by	: GYAN Enviro Representative	Environment Condition: Sunny (during sampling)				
Sampling Date	: From 28.06.2021 to 29.06.2021	Date of Analysis started : 30.06.2021				
Sample Receipt Date	: 30.06.2021	Date of Analysis completed: 02.07.2021 Testing Period : 3 Days				
Latitude	: 22.161729 N	Direction from site : North -West				
Longitude	: 83.498074 E	Distance from site : 460 mt				

# Results of Analysis

S.N	Test Parameters	Unit	Permissible Limit	AAQ-3 Result	Test Method
1,	Particulate Matter size less than 10 μm ( PM <sub>10</sub> )	μg/m³	100	50.8	USEPA - 40 CFR Part 50 (Appendix O)
2.	Particulate Matter size less than 2.5 μm (PM <sub>2.5</sub> )	μg/m³	60	19.5	USEPA - 40 CFR Part 50 (Appendix O)
3,	Sulphur Dioxide (SO <sub>2</sub> )	μg/m³	80	10.7	IS 5182 (Part 2): 2001 RA 2017
4.	Nitrogen Dioxide (NO <sub>2</sub> )	μg/m³	80	15.6	IS 5182 (Part 6): 2006 RA 2017
5.	Carbon Monoxide (as CO)*	μg/m³	4000	490.0	IS 5182 (Part 10) : 1999 RA 2014 (Clause 5.0)
6.	Lead ( Pb )*	μg/m³	1.0	< 0.01	IS 5182 (Part 22): 2004 RA 2014 (Clause 5.0)
7.	Arsenic (as As) *	$\mu g/m^3$	6.0	< 0.001	IS 5182 (Part 22): 2004 RA 2014 (Clause 5.0)
8.	Nickel (as Ni) *	μg/m³	20.0	< 0.001	IS 5182 (Part 22): 2004 RA 2014 (Clause 5.0)
9.	Mercury (Hg)	$\mu g/m^3$	-	< 0.001	IS 5182 (Part 22): 2004 RA 2014 (Clause 5.0)

- NAAQMS- National Ambient Air Quality Monitoring Standards (MoEF notification 2009)
- All values are in µg/m3
- BDL: Below Detectable Limit
- 24 Hrs sampling

For M/s Nilawar Laboratories,



# RenukaYadav (Authorized Signatory)

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- 2. The results listed referred to the tested samples send by customer and applicable parameters only 3. Our liability is limited to the commercial value of the test/tests carried out.





CIN No. U74140MH112009PTC196108

Report No.: GE-Nilawar/EMS/2021/June /16 Report Date: 03.07.2021 Name & Address of the Customer: M/s. Ambuja Cements Limited, Add: Gare Palma IV/8 Coal Mine, Vill: Khamaria PO: Tamnar, Dist: Raigarh-496111 Sample Description : Ambient Air Sample Sampling Location: Nr School, Rampura village (Buffer Sampling Ref Method : IS 5182 (Part 14) :2000 RA 2010 Zone) Sampled by : GYAN Enviro Representative Environment Condition: Sunny (during sampling) Sampling Date : From 28.06.2021 to 29.06.2021 : 30.06.2021 Date of Analysis started Sample Receipt Date : 30.06.2021 Date of Analysis completed: 02.07.2021 3 Days Testing Period Latitude 22.162807 N Direction from site East Longitude 83.504231 E Distance from site 400 mtr

### Results of Analysis

S.N	Test Parameters	Unit	Permissible Limit	AAQ-4 Result	Test Method
I.	Particulate Matter size less than 10 µm ( PM <sub>10</sub> )	μg/m³	100	52.6	USEPA - 40 CFR Part 50 (Appendix O)
2.	Particulate Matter size less than 2.5 µm (PM <sub>2.5</sub> )	μg/m³	60	20.3	USEPA - 40 CFR Part 50 (Appendix O)
3.	Sulphur Dioxide (SO <sub>2</sub> )	μg/m³	80	11.5	IS 5182 (Part 2): 2001 RA 2017
4.	Nitrogen Dioxide (NO <sub>2</sub> )	μg/m³	80	14.9	IS 5182 (Part 6): 2006 RA 2017
5.	Carbon Monoxide (as CO)*	μg/m³	4000	460.0	IS 5182 (Part 10): 1999 RA 2014 (Clause 5.0)
6.	Lead ( Pb )*	$\mu g/m^3$	1.0	< 0.01	IS 5182 (Part 22): 2004 RA 2014 (Clause 5.0)
7.	Arsenic (as As) *	μg/m³	6.0	< 0.002	IS 5182 (Part 22): 2004 RA 2014 (Clause 5.0)
8.	Nickel (as Ni) *	μg/m³	20.0	< 0.001	IS 5182 (Part 22): 2004 RA 2014 (Clause 5.0)
9.	Mercury (Hg)	μg/m³		< 0.001	IS 5182 (Part 22): 2004 RA 2014 (Clause 5.0)

- NAAQMS- National Ambient Air Quality Monitoring Standards (MoEF notification 2009)
- All values are in µg/m3
- **BDL: Below Detectable Limit**
- 24 Hrs sampling

For M/s Nilawar Laboratories,



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CIN No. U74140MH112009PTC196108

Report Date: 03.07.2021 Report No.: GE-Nilawar/EMS/2021/June /16 Name & Address of the Customer: M/s. Ambuja Cements Limited, Add: Gare Palma IV/8 Coal Mine, Vill: Khamaria PO: Tamnar, Dist: Raigarh-496111 Sampling Location: At Durga House (Buffer Zone) : Ambient Air Sample Sample Description : 1S 5182 (Part 14) :2000 RA 2010 Sampling Ref Method Environment Condition: Sunny (during sampling) : GYAN Enviro Representative Sampled by : 30.06.2021 Date of Analysis started : From 28.06.2021 to 29.06.2021 Sampling Date Date of Analysis completed: 02.07.2021 Sample Receipt Date : 30.06.2021 : 3 Days Testing Period South 22.166381 N Direction from site Latitude 280 mtr Distance from site 83.497756 E Longitude

### Results of Analysis

S.N	Test Parameters	Unit	Permissible Limit	AAQ-5 Result	Test Method
1.	Particulate Matter size less than 10 µm ( PM <sub>10</sub> )	μg/m³	100	50.2	USEPA - 40 CFR Part 50 (Appendix O)
2.	Particulate Matter size less than 2.5 µm (PM <sub>2.5</sub> )	μg/m³	60	19.8	USEPA - 40 CFR Part 50 (Appendix O)
3.	Sulphur Dioxide (SO <sub>2</sub> )	μg/m³	80	10.4	IS 5182 (Part 2): 2001 RA 2017
4.	Nitrogen Dioxide (NO <sub>2</sub> )	μg/m³	80	16.1	IS 5182 (Part 6): 2006 RA 2017
5.	Carbon Monoxide (as CO)*	$\mu g/m^3$	4000	455.0	IS 5182 (Part 10): 1999 RA 2014 (Clause 5.0)
6.	Lead ( Pb )*	μg/m³	1.0	< 0.01	IS 5182 (Part 22): 2004 RA 2014 (Clause 5.0)
7.	Arsenic (as As) *	μg/m³	6.0	< 0.001	IS 5182 (Part 22): 2004 RA 2014 (Clause 5.0)
8.	Nickel (as Ni) *	$\mu g/m^3$	20.0	< 0.001	IS 5182 (Part 22): 2004 RA 2014 (Clause 5.0)
9.	Mercury (Hg)	μg/m³	-	< 0.001	IS 5182 (Part 22): 2004 RA 2014 (Clause 5.0)

- NAAQMS- National Ambient Air Quality Monitoring Standards (MoEF notification 2009)
- All values are in µg/m3
- BDL: Below Detectable Limit and 24 Hrs sampling

### For M/s Nilawar Laboratories,



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Report Date: 09.08,2021



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CIN No. U74140MH112009PTC196108

NO. 6 /4140MH112009F1C196108

Name & Address of the Customer: M/s. Ambuja Cements Limited,

Add: Gare Palma IV/8 Coal Mine, Vill: Khamaria

PO: Tamnar, Dist: Raigarh-496111

Sample Description : Ambient Air Sample

Report No.: GE-Nilawar/EMS/2021/July/28

Sampling Ref Method : IS 5182 (Part 14):2000 RA 2010 Sampled by : GYAN Enviro Representative

Sampled by : GYAN 1 Sampling Date : 30.07.20

Sampling Date : 30.07.2021 Sample Receipt Date : 02.08.2021

Latitude: 22.169931 N Longitude: 83.494959E Sampling Location: At Site Office [Core Zone]

Environment Condition: Sunny (during sampling)

Date of Analysis started : 02.08.2021 Date of Analysis completed: 06.08.2021 Testing Period : 4 Days

Direction from site :

Within site

Distance from site : Nil

### Results of Analysis

S.N	Test Parameters	Unit	Permissible Limit	AAQ-1 Result	Test Method
1.	Particulate Matter size less than 10 µm ( PM <sub>10</sub> )	μg/m³	100	50.4	USEPA - 40 CFR Part 50 (Appendix O)
2.	Particulate Matter size less than 2.5 μm (PM <sub>2.5</sub> )	μg/m³	60	16.7	USEPA - 40 CFR Part 50 (Appendix O)
3.	Sulphur Dioxide (SO <sub>2</sub> )	μg/m³	80	11.1	IS 5182 (Part 2): 2001 RA 2017
4.	Nitrogen Dioxide (NO <sub>2</sub> )	μg/m³	80	14.9	IS 5182 (Part 6): 2006 RA 2017
5.	Carbon Monoxide (as CO)*	μg/m³	4000	401.0	IS 5182 (Part 10): 1999 RA 2014 (Clause 5.0)
6.	Lead ( Pb )*	μg/m³	1.0	BDL	IS 5182 (Part 22): 2004 RA 2014 (Clause 5.0)
7.	Arsenic (as As) *	μg/m³	6.0	<0.2	IS 5182 (Part 22): 2004 RA 2014 (Clause 5.0)
8.	Nickel (as Ni) *	μg/m³	20.0	BDL	IS 5182 (Part 22): 2004 RA 2014 (Clause 5.0)
9.	Mercury (Hg)	μg/m³	-	<0.01	IS 5182 (Part 22): 2004 RA 2014 (Clause 5.0)

- NAAQMS- National Ambient Air Quality Monitoring Standards (MoEF notification 2009)
- All values are in µg/m³
- BDL: Below Detectable Limit and 24 Hrs sampling

### For M/s Nilawar Laboratories,



RenukaYadav (Authorized Signatory)

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Off.: First Floor: Pratibha Sankul: Beside Alankar Cinema, Charampeth, Nagpur - 10 - Ph. +91-712-2542261. 2542291. E-mail: nitawariebs@gmail.com Laboratory : A1Km 16 5, Nilawar Motors Complex, Amravat Road, Waddhamna, Nagpur - 440 023, Mob. +91-9922409005, 955200955



CIN No. U74140MH112009PTC196108

Report No.: GE-Nilawar/EMS/2021/July/28 Report Date: 09.08.2021 Name & Address of the Customer: M/s. Ambuja Cements Limited, Add: Gare Palma IV/8 Coal Mine, Vill: Khamaria PO: Tamnar, Dist: Raigarh-496111 Sample Description : Ambient Air Sample Sampling Location: At Banjari Temple (Buffer Zone) Sampling Ref Method : IS 5182 (Part 14) :2000 RA 2010 Environment Condition: Sunny (during sampling) Sampled by : GYAN Enviro Representative Date of Analysis started : 02.08.2021 Sampling Date : 31.07.2021 Date of Analysis completed: 06.08.2021 Sample Receipt Date : 02.08.2021 : 4 Days Testing Period Latitude 22.178831 N Direction from site North Longitude 83.508995 Distance from site 310 Mtr

### Results of Analysis

S.N	Test Parameters	Unit	Permissible Limit	AAQ-2 Result	Test Method
l.	Particulate Matter size less than 10 µm ( PM <sub>10</sub> )	μg/m³	100	51.5	USEPA - 40 CFR Part 50 (Appendix O)
2.	Particulate Matter size less than 2.5 μm (PM <sub>2.5</sub> )	μg/m³	60	18.4	USEPA - 40 CFR Part 50 (Appendix O)
3.	Sulphur Dioxide (SO <sub>2</sub> )	μg/m³	80	10.7	IS 5182 (Part 2): 2001 RA 2017
4.	Nitrogen Dioxide (NO <sub>2</sub> )	μg/m³	80	15.2	IS 5182 (Part 6): 2006 RA 2017
5.	Carbon Monoxide (as CO)*	μg/m³	4000	415.0	IS 5182 (Part 10): 1999 RA 2014 (Clause 5.0)
6.	Lead ( Pb )*	μg/m³	1.0	<0.01	IS 5182 (Part 22): 2004 RA 2014 (Clause 5.0)
7.	Arsenic (as As) *	$\mu g/m^3$	6.0	< 0.001	IS 5182 (Part 22): 2004 RA 2014 (Clause 5.0)
8.	Nickel (as Ni) *	μg/m³	20.0	< 0.001	IS 5182 (Part 22): 2004 RA 2014 (Clause 5.0)
9.	Mercury (Hg)	μg/m³		< 0.001	IS 5182 (Part 22): 2004 RA 2014 (Clause 5.0)

- NAAQMS- National Ambient Air Quality Monitoring Standards (MoEF notification 2009)
- All values are in µg/m3
- **BDL: Below Detectable Limit**
- 24 Hrs sampling

# For M/s Nilawar Laboratories,



# RenukaYadav (Authorized Signatory)

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Report Date: 09.08.2021



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CIN No. U74140MH112009PTC196108

Report No.: GE-Nilawar/EMS/2021/July/28

Name & Address of the Customer: M/s. Ambuja Cements Limited,

Add: Gare Palma IV/8 Coal Mine, Vill: Khamaria

PO: Tamnar, Dist: Raigarh-496111

Sample Description : Ambient Air Sample

Sampling Ref Method : IS 5182 (Part 14) :2000 RA 2010

Sampled by : GYAN Enviro Representative

Sampling Date : 30.07.2021 Sample Receipt Date : 02.08.2021

Latitude 22.161729 N

Longitude 83.498074 E Sampling Location: At Khamaria village (Buffer Zone)

Environment Condition: Sunny (during sampling)

Date of Analysis started : 02.08.2021 Date of Analysis completed: 06.08.2021

Testing Period : 4 Days

Direction from site North - West Distance from site 460 mt

# Results of Analysis

S.N	Test Parameters	Unit	Permissible Limit	AAQ-3 Result	Test Method
1.	Particulate Matter size less than 10 µm ( PM <sub>10</sub> )	μg/m³	100	48.8	USEPA - 40 CFR Part 50 (Appendix O)
2.	Particulate Matter size less than 2.5 μm (PM <sub>2.5</sub> )	μg/m <sup>3</sup>	60	17.1	USEPA - 40 CFR Part 50 (Appendix O)
3.	Sulphur Dioxide (SO <sub>2</sub> )	μg/m³	80	10.1	IS 5182 (Part 2): 2001 RA 2017
4.	Nitrogen Dioxide (NO <sub>2</sub> )	μg/m³	80	14.4	IS 5182 (Part 6): 2006 RA 2017
5.	Carbon Monoxide (as CO)*	μg/m³	4000	455.0	IS 5182 (Part 10): 1999 RA 2014 (Clause 5.0
6.	Lead ( Pb )*	μg/m³	1.0	<0.01	IS 5182 (Part 22): 2004 RA 2014 (Clause 5.0)
7.	Arsenic (as As) *	μg/m³	6.0	< 0.001	IS 5182 (Part 22): 2004 RA 2014 (Clause 5.0)
8.	Nickel (as Ni) *	μg/m³	20.0	< 0.001	IS 5182 (Part 22): 2004 RA 2014 (Clause 5.0)
9.	Mercury (Hg)	μg/m³	-	< 0.001	IS 5182 (Part 22): 2004 RA 2014 (Clause 5.0)

- NAAQMS- National Ambient Air Quality Monitoring Standards (MoEF notification 2009)
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- BDL: Below Detectable Limit and 24 Hrs sampling

For M/s Nilawar Laboratories,



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CIN No. U74140MH112009PTC196108

Report No.: GE-Nilawar/EMS/2021/June /16 Report Date: 03.07.2021 Name & Address of the Customer: M/s. Ambuja Cements Limited, Add: Gare Palma IV/8 Coal Mine, Vill: Khamaria PO: Tamnar, Dist: Raigarh-496111 Sample Description : Ambient Air Sample Sampling Location: Nr School, Rampura village (Buffer Sampling Ref Method : IS 5182 (Part 14) :2000 RA 2010 Zone) Sampled by : GYAN Enviro Representative Environment Condition: Sunny (during sampling) Sampling Date : From 28.06.2021 to 29.06.2021 : 30.06.2021 Date of Analysis started Sample Receipt Date : 30.06,2021 Date of Analysis completed: 02.07.2021 Testing Period Latitude 22.162807 N Direction from site East Longitude 3 83.504231 E 400 mtr Distance from site

# Results of Analysis

S.N	Test Parameters	Unit	Permissible Limit	AAQ-4 Result	Test Method
1.	Particulate Matter size less than 10 µm ( PM <sub>10</sub> )	μg/m³	100	52.6	USEPA - 40 CFR Part 50 (Appendix O)
2.	Particulate Matter size less than 2.5 µm (PM <sub>2.5</sub> )	μg/m³	60	20.3	USEPA - 40 CFR Part 50 (Appendix O)
3.	Sulphur Dioxide (SO <sub>2</sub> )	μg/m³	80	11.5	IS 5182 (Part 2): 2001 RA 2017
4.	Nitrogen Dioxide (NO <sub>2</sub> )	μg/m³	80	14.9	IS 5182 (Part 6): 2006 RA 2017
5.	Carbon Monoxide (as CO)*	μg/m³	4000	460.0	IS 5182 (Part 10): 1999 RA 2014 (Clause 5.0)
6.	Lead ( Pb )*	μg/m³	1.0	< 0.01	IS 5182 (Part 22): 2004 RA 2014 (Clause 5.0)
7.	Arsenic (as As) *	μg/m³	6.0	< 0.002	IS 5182 (Part 22): 2004 RA 2014 (Clause 5.0)
8.	Nickel (as Ni) *	μg/m³	20.0	< 0.001	IS 5182 (Part 22): 2004 RA 2014 (Clause 5.0)
9.	Mercury (Hg)	μg/m³	-	< 0.001	IS 5182 (Part 22): 2004 RA 2014 (Clause 5.0)

- NAAQMS- National Ambient Air Quality Monitoring Standards (MoEF notification 2009)
- All values are in μg/m<sup>3</sup>
- BDL: Below Detectable Limit and 24 Hrs sampling

### For M/s Nilawar Laboratories,



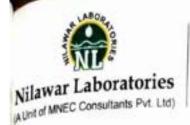
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Report Date: 09.08.2021



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CIN No. U74140MH112009PTC196108

Report No.: GE-Nilawar/EMS/2021/July/28

Name & Address of the Customer: M/s. Ambuja Cements Limited,

Add: Gare Palma IV/8 Coal Mine, Vill: Khamaria

PO: Tamnar, Dist: Raigarh-496111

Sample Description : Ambient Air Sample

Sampling Ref Method : IS 5182 (Part 14) :2000 RA 2010

Sampled by : GYAN Enviro Representative

Sampling Date : 30.07.2021 Sample Receipt Date : 02.08.2021

Latitude 22.166381 N 83.497756 E Longitude

Sampling Location: At Durga House (Buffer Zone)

Environment Condition: Sunny (during sampling)

Date of Analysis started : 02.08.2021 Date of Analysis completed: 06.08.2021 : 4 Days Testing Period

South Direction from site 280 mtr Distance from site

# Results of Analysis

S.N	Test Parameters	Unit	Permissible Limit	AAQ-5 Result	Test Method
1.	Particulate Matter size less than 10 µm ( PM <sub>10</sub> )	μg/m³	100	48.5	USEPA - 40 CFR Part 50 (Appendix O)
2.	Particulate Matter size less than 2.5 µm (PM <sub>2.5</sub> )	μg/m³	60	16.0	USEPA - 40 CFR Part 50 (Appendix O)
3.	Sulphur Dioxide (SO <sub>2</sub> )	μg/m³	80	9.9	IS 5182 (Part 2): 2001 RA 2017
4.	Nitrogen Dioxide (NO <sub>2</sub> )	μg/m³	80	15.5	IS 5182 (Part 6): 2006 RA 2017
5.	Carbon Monoxide (as CO)*	μg/m³	4000	425.0	IS 5182 (Part 10): 1999 RA 2014 (Clause 5.0)
6.	Lead (Pb)*	μg/m³	1.0	< 0.01	IS 5182 (Part 22): 2004 RA 2014 (Clause 5.0)
7.	Arsenic (as As) *	$\mu g/m^3$	6.0	< 0.001	IS 5182 (Part 22): 2004 RA 2014 (Clause 5.0)
8.	Nickel (as Ni) *	$\mu g/m^3$	20.0	< 0.001	IS 5182 (Part 22): 2004 RA 2014 (Clause 5.0)
9.	Mercury (Hg)	μg/m³		< 0.001	IS 5182 (Part 22): 2004 RA 2014 (Clause 5.0)

- NAAQMS- National Ambient Air Quality Monitoring Standards (MoEF notification 2009)
- All values are in μg/m<sup>3</sup>
- BDL: Below Detectable Limit and 24 Hrs sampling

For M/s Nilawar Laboratories,



# RenukaYaday (Authorized Signatory)

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ISO 17025:2017 ISO 9001:2015 ISO 14001:2015 ISO 45001:2018 NABL ACCREDITED LAB

### CIN No. U74140MH112009PTC196108

Report No.: GE-Nilawar/EMS/2021/Aug/36 Report Date: 11.09.2021 Name & Address of the Customer: M/s. Ambuja Cements Limited, Add: Gare Palma IV/8 Coal Mine, Vill: Khamaria PO: Tamnar, Dist: Raigarh-496111 Sampling Location: At Site Office [Core Zone] : Ambient Air Sample Sample Description Sampling Ref Method : IS 5182 (Part 14) :2000 RA 2010 Environment Condition: Sunny (during sampling) Sampled by :GYAN Enviro Representative :03.09.2021 Date of Analysis started Sampling Date :30.08.2021 Date of Analysis completed: 07.09.2021 Sample Receipt Date :02.09.2021 :5 Days Testing Period Latitude: 22.169931N Within site Direction from site Longitude: 83.494959E Nil Distance from site

### Results of Analysis

S.N	Test Parameters	Unit	Permissible Limit	AAQ-1 Result	Test Method
1.	Particulate Matter size less than 10 µm ( PM <sub>10</sub> )	μg/m³	100	53.7	USEPA - 40 CFR Part 50(Appendix O)
2.	Particulate Matter size less than 2.5 µm (PM <sub>2.5</sub> )	μg/m³	60	14.8	USEPA - 40 CFR Part 50(Appendix O)
3.	Sulphur Dioxide (SO <sub>2</sub> )	μg/m³	80	12.4	IS 5182 (Part 2): 2001RA 2017
4.	Nitrogen Dioxide (NO <sub>2</sub> )	μg/m³	80	16.1	IS 5182 (Part 6): 2006RA 2017
5.	Carbon Monoxide (as CO)*	μg/m³	4000	425.0	IS 5182 (Part 10): 1999 RA 2014(Clause 5.0)
6.	Lead ( Pb )*	μg/m³	1.0	BDL	IS 5182 (Part 22): 2004 RA 2014(Clause 5.0)
7.	Arsenic (as As) *	μg/m³	6.0	< 0.2	IS 5182 (Part 22): 2004 RA 2014(Clause 5.0)
8.	Nickel (as Ni) *	μg/m³	20.0	BDL	IS 5182 (Part 22): 2004 RA 2014(Clause 5.0)
9.	Mercury (Hg)	μg/m³		<0.01	IS 5182 (Part 22): 2004 RA 2014(Clause 5.0)

- NAAQMS- National Ambient Air Quality Monitoring Standards (MoEF notification 2009)
- All values are in µg/m³
- BDL: Below Detectable Limit
- 24 Hrs sampling

For M/s Nilawar Laboratories,



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- 4. NR-no relexation; AG-agreeable; NA- not applicable; BDL-Below detection limit
- Off.: First Floor, 'Pratibha Sankul', Beside Alankar Cinema, Dharampeth, Nagpur 10. Ph.: +91-712-2542261, 2542291, E-mail: nilawarlabs@gmail.com Laboratory: At Km 16.5, Nilawar Motors Complex, Amravati Road, Waddhamna, Nagpur - 440 023. Mob.: +91-9922409055, 9552550955
- ➤ Soil Testing for all types of Foundation Designs. ➤ Chemical Analysis of Soil & Water ➤ Mechanical Analysis of Soil & Rock
  ► Micro-biological Analysis of Soil & Water ➤ Testing of Construction Material ➤ Environment Consultants ➤ Environment Monitoring & Analysis



ISO 17025:2017 150 9001:2015 ISO 14001:2015 ISO 45001:2018 NABL ACCREDITED LAB

CIN No. U74140MH112009PTC196108

Report Date: 11.09.2021 Report No.: GE-Nilawar/EMS/2021/Aug/36 Name & Address of the Customer: M/s. Ambuja Cements Limited, Add: Gare Palma IV/8 Coal Mine, Vill: Khamaria PO: Tamnar, Dist: Raigarh-496111 : Ambient Air Sample Sampling Location: At Banjari Temple (Buffer Zone) Sample Description Sampling Ref Method : IS 5182 (Part 14) :2000 RA 2010 Environment Condition: Sunny (during sampling) Sampled by :GYAN Enviro Representative :03.09.2021 Date of Analysis started Sampling Date :30.08.2021 Date of Analysis completed: 07.09.2021 Sample Receipt Date: 02.09.2021 :5 Days Testing Period Latitude Direction from site North 22.178831N Longitude 83.508995 Distance from site 310 Mtr

### Results of Analysis

S.N	Test Parameters	Unit	Permissible Limit	AAQ-2 Result	Test Method
1.	Particulate Matter size less than 10 µm ( PM <sub>10</sub> )	μg/m³	100	55.0	USEPA - 40 CFR Part 50(Appendix O)
	Particulate Matter size less than 2.5 µm (PM <sub>2.5</sub> )	μg/m³	60	17.2	USEPA - 40 CFR Part 50(Appendix O)
3.	Sulphur Dioxide (SO <sub>2</sub> )	μg/m³	80	11.5	IS 5182 (Part 2): 2001RA 2017
4.	Nitrogen Dioxide (NO <sub>2</sub> )	μg/m³	80	16.0	IS 5182 (Part 6): 2006RA 2017
5.	Carbon Monoxide (as CO)*	μg/m³	4000	445.0	IS 5182 (Part 10): 1999 RA 2014(Clause 5.0)
6.	Lead ( Pb )*	μg/m³	1.0	< 0.01	IS 5182 (Part 22): 2004 RA 2014(Clause 5.0)
7.	Arsenic (as As) *	μg/m³	6.0	< 0.001	IS 5182 (Part 22): 2004 RA 2014(Clause 5.0)
8.	Nickel (as Ni) *	μg/m³	20.0	< 0.001	IS 5182 (Part 22): 2004 RA 2014(Clause 5.0)
9.	Mercury (Hg)	μg/m³	-	< 0.001	IS 5182 (Part 22): 2004 RA 2014(Clause 5.0)

- NAAOMS- National Ambient Air Quality Monitoring Standards (MoEF notification 2009)
- All values are in µg/m3
- **BDL: Below Detectable Limit**
- 24 Hrs sampling

For M/s Nilawar Laboratories.



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- 4. NR-no relaxation; AG-agreeable; NA- not applicable; BDL-Below detection limit

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### CIN No. U74140MH112009PTC196108

Report No.: GE-Nilawar/EMS/2021/Aug/36

Report Date: 11.09.2021

Name & Address of the Customer: M/s. Ambuja Cements Limited,

Add: Gare Palma IV/8 Coal Mine, Vill: Khamaria

PO: Tamnar, Dist: Raigarh-496111

A Unit of MNEC Consultants Pvt. Ltd)

: Ambient Air Sample Sample Description

: IS 5182 (Part 14) :2000 RA 2010 Sampling Ref Method

Sampled by

:GYAN Enviro Representative

Sampling Date :30.08.2021 Sample Receipt Date :02.09.2021

Latitude 22.161729N Longitude 83.498074E Sampling Location: At Khamaria village (Buffer Zone)

Environment Condition: Sunny (during sampling)

Date of Analysis started :03.09.2021 Date of Analysis completed: 07.09.2021 :5 Days Testing Period

Distance from site

North -West Direction from site 460 mt

### Results of Analysis

S.N	Test Parameters	Unit	Permissible Limit	AAQ-3 Result	Test Method
I.	Particulate Matter size less than 10 um ( PM <sub>10</sub> )	μg/m³	100	50.0	USEPA - 40 CFR Part 50(Appendix O)
2.	Particulate Matter size less than 2.5 µm (PM <sub>2.5</sub> )	μg/m³	60	16.9	USEPA - 40 CFR Part 50(Appendix O)
3.	Sulphur Dioxide (SO <sub>2</sub> )	μg/m³	80	12.4	IS 5182 (Part 2): 2001RA 2017
4.	Nitrogen Dioxide (NO <sub>2</sub> )	μg/m³	80	16.7	IS 5182 (Part 6): 2006RA 2017
5.	Carbon Monoxide (as CO)*	μg/m³	4000	470.0	IS 5182 (Part 10): 1999 RA 2014(Clause 5.0)
6.	Lead ( Pb )*	μg/m³	1.0	< 0.01	IS 5182 (Part 22): 2004 RA 2014(Clause 5.0)
7.	Arsenic (as As) *	μg/m³	6.0	< 0.001	IS 5182 (Part 22): 2004 RA 2014(Clause 5.0)
8.	Nickel (as Ni) *	μg/m³	20.0	< 0.001	IS 5182 (Part 22): 2004 RA 2014(Clause 5.0)
9.	Mercury (Hg)	$\mu g/m^3$	-	< 0.001	IS 5182 (Part 22): 2004 RA 2014(Clause 5.0)

- NAAOMS- National Ambient Air Quality Monitoring Standards (MoEF notification 2009)
- All values are in µg/m3
- BDL: Below Detectable Limit
- 24 Hrs sampling

For M/s Nilawar Laboratories,



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Report Date: 11.09.2021



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CIN No. U74140MH112009PTC196108

Report No.: GE-Nilawar/EMS/2021/Aug/36

Name & Address of the Customer: M/s. Ambuja Cements Limited,

Add: Gare Palma IV/8 Coal Mine, Vill: Khamaria

PO: Tamnar, Dist: Raigarh-496111

: Ambient Air Sample Sample Description

: IS 5182 (Part 14) :2000 RA 2010 Sampling Ref Method :GYAN Enviro Representative Sampled by

Sampling Date :31.08.2021

Sample Receipt Date :02.09.2021

Latitude 22.162807N Longitude 83.504231E Sampling Location: Nr School, Rampura village (Buffer

Zone)

Distance from site

Environment Condition: Sunny (during sampling)

:03.09.2021 Date of Analysis started Date of Analysis completed: 07.09.2021 :5 Days Testing Period

East Direction from site

400 mtr

### Results of Analysis

S.N	Test Parameters	Unit	Permissible Limit	AAQ-4 Result	Test Method
1.	Particulate Matter size less than 10 µm ( PM <sub>10</sub> )	μg/m³	100	51.4	USEPA - 40 CFR Part 50(Appendix O)
100	Particulate Matter size less than 2.5 µm (PM <sub>25</sub> )	μg/m³	60	17.0	USEPA - 40 CFR Part 50(Appendix O)
3.	Sulphur Dioxide (SO <sub>2</sub> )	μg/m³	80	11.5	IS 5182 (Part 2): 2001RA 2017
4.	Nitrogen Dioxide (NO <sub>2</sub> )	μg/m³	80	15.2	IS 5182 (Part 6): 2006RA 2017
5.	Carbon Monoxide (as CO)*	μg/m³	4000	460.0	IS 5182 (Part 10): 1999 RA 2014(Clause 5.0)
6.	Lead (Pb)*	μg/m³	1.0	< 0.01	IS 5182 (Part 22): 2004 RA 2014(Clause 5.0)
7.	Arsenic (as As) *	μg/m³	6.0	<0.002	IS 5182 (Part 22): 2004 RA 2014(Clause 5.0)
8.	Nickel (as Ni) *	μg/m³	20.0	< 0.001	IS 5182 (Part 22): 2004 RA 2014(Clause 5.0)
).	Mercury (Hg)	μg/m³	-	< 0.001	IS 5182 (Part 22): 2004 RA 2014(Clause 5.0)

- NAAQMS- National Ambient Air Quality Monitoring Standards (MoEF notification 2009)
- All values are in µg/m3
- BDL: Below Detectable Limit
- 24 Hrs sampling

For M/s Nilawar Laboratories,



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<sup>➤</sup> Soil Testing for all types of Foundation Designs. ➤ Chemical Analysis of Soil & Water ➤ Mechanical Analysis of Soil & Rock
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CIN No. U74140MH112009PTC196108

Report No.: GE-Nilawar/EMS/2021/Aug/36 Report Date: 11.09.2021

Name & Address of the Customer: M/s. Ambuja Cements Limited,

Add: Gare Palma IV/8 Coal Mine, Vill: Khamaria

PO: Tamnar, Dist: Raigarh-496111

Sample Description : Ambient Air Sample

Sampling Ref Method : IS 5182 (Part 14):2000 RA 2010 Sampled by :GYAN Enviro Representative

Sampling Date :31.08.2021 Sample Receipt Date :02.09.2021

Latitude : 22.166381N Longitude : 83.497756F

:IS 5182 (Part 14) :2000 RA 2010
:GYAN Enviro Representative
2021
Date of Analysis started :03.09.2021
Date of Analysis completed: 07.09.2021

Distance from site : 280 mtr

Sampling Location: At Durga House (Buffer Zone)

South

## Results of Analysis

S.N	Test Parameters	Unit	Permissible Limit	AAQ-5 Result	Test Method
L.	Particulate Matter size less than 10 µm ( PM <sub>10</sub> )	μg/m³	100	50.3	USEPA - 40 CFR Part 50(Appendix O)
2.	Particulate Matter size less than 2.5 μm (PM <sub>2.5</sub> )	μg/m³	60	15.8	USEPA - 40 CFR Part 50(Appendix O)
3.	Sulphur Dioxide (SO <sub>2</sub> )	μg/m³	80	10.7	TS 5182 (Part 2): 2001RA 2017
4.	Nitrogen Dioxide (NO <sub>2</sub> )	μg/m³	80	16.1	IS 5182 (Part 6): 2006RA 2017
5.	Carbon Monoxide (as CO)*	$\mu g/m^3$	4000	455.0	IS 5182 (Part 10): 1999 RA 2014(Clause 5.0)
6.	Lead ( Pb )*	μg/m³	1.0	< 0.01	IS 5182 (Part 22): 2004 RA 2014(Clause 5.0)
7.	Arsenic (as As) *	μg/m³	6.0	< 0.001	IS 5182 (Part 22): 2004 RA 2014(Clause 5.0)
8.	Nickel (as Ni) *	μg/m³	20.0	< 0.001	IS 5182 (Part 22): 2004 RA 2014(Clause 5.0)
9.	Mercury (Hg)	μg/m³		< 0.001	IS 5182 (Part 22): 2004 RA 2014(Clause 5.0)

- NAAQMS- National Ambient Air Quality Monitoring Standards (MoEF notification 2009)
- All values are in μg/m³
- BDL: Below Detectable Limit
- 24 Hrs sampling

For M/s Nilawar Laboratories,

Renuka Yaday (Authorized Signatury)

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 Micro-biological Analysis of Soil & Water ➤ Testing of Construction Material ➤ Environment Consultants ➤ Environment Monitoring & Analysis



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### CIN No. U74140MH112009PTC196108

Report No.: GE-Nilawar/EMS/2021/Sep/45

Report Date: 09.10.2021

Name & Address of the Customer: M/s. Ambuja Cements Limited,

Add: Gare Palma IV/8 Coal Mine, Vill: Khamaria

PO: Tamnar, Dist: Raigarh-496111

Sample Description : Ambient Air Sample

Sampling Ref Method : IS 5182 (Part 14):2000 RA 2010 Sampled by : GYAN Enviro Representative

Sampled by : GYAN Sampling Date : 29.09.2021

Sample Receipt Date :01.10.2021

Latitude: 22.169931N Longitude: 83.494959E Sampling Location: At Site Office [Core Zone]

Environment Condition: Sunny (during sampling)

Date of Analysis started : 04.10.2021 Date of Analysis completed: 08.10.2021 Testing Period : 5 Days

Direction from site : V

Within site

Nil

Distance from site

### Results of Analysis

S.N	Test Parameters	Unit	Permissible Limit	AAQ-1 Result	Test Method
	Particulate Matter size less than 10 µm ( PM <sub>10</sub> )	μg/m³	100	51.5	USEPA - 40 CFR Part 50(Appendix O)
	Particulate Matter size less than 2.5 µm (PM <sub>2.5</sub> )	μg/m³	60	15.3	USEPA - 40 CFR Part 50(Appendix O)
3.	Sulphur Dioxide (SO <sub>2</sub> )	μg/m³	80	11.9	IS 5182 (Part 2): 2001RA 2017
4.	Nitrogen Dioxide (NO <sub>2</sub> )	μg/m³	80	17.4	IS 5182 (Part 6): 2006RA 2017
5.	Carbon Monoxide (as CO)*	μg/m³	4000	408	IS 5182 (Part 10): 1999 RA 2014(Clause 5.0)
6.	Lead ( Pb )*	μg/m³	1.0	BDL	IS 5182 (Part 22): 2004 RA 2014(Clause 5.0)
7.	Arsenic (as As) *	μg/m³	6.0	<0.2	IS 5182 (Part 22): 2004 RA 2014(Clause 5.0)
8.	Nickel (as Ni) *	μg/m³	20.0	BDL	IS 5182 (Part 22): 2004 RA 2014(Clause 5.0)
9.	Mercury (Hg)	μg/m³	-	<0.01	IS 5182 (Part 22): 2004 RA 2014(Clause 5.0)

- NAAQMS- National Ambient Air Quality Monitoring Standards (MoEF notification 2009)
- All values are in µg/m³
- BDL: Below Detectable Limit
- 24 Hrs sampling

For M/s Nilawar Laboratories,

Renulce Vaday

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NABL ACCREDITED LAB

Sep-2021

CIN No. U74140MH112009PTC196108

Report No.: GE-Nilawar/EMS/2021/Sep/45 Report Date: 09.10.2021 Name & Address of the Customer: M/s. Ambuja Cements Limited, Add: Gare Palma IV/8 Coal Mine, Vill: Khamaria PO: Tamnar, Dist: Raigarh-496111 Sample Description : Ambient Air Sample Sampling Location: At Banjari Temple (Buffer Zone) Sampling Ref Method : IS 5182 (Part 14) :2000 RA 2010 Environment Condition: Sunny (during sampling) Sampled by : GYAN Enviro Representative

Sampling Date : 29.09.2021 Sample Receipt Date: 01.10.2021

Latitude

22.178831N Longitude 83.508995

Date of Analysis started : 04.10.2021 Date of Analysis completed: 08.10.2021 Testing Period : 5 Days Direction from site

North Distance from site 310 Mtr

### Results of Analysis

S.N	Test Parameters	Unit	Permissible Limit	AAQ-2 Result	Test Method
	Particulate Matter size less than 10 µm ( PM <sub>10</sub> )	μg/m³	100	53.8	USEPA - 40 CFR Part 50(Appendix O)
7	Particulate Matter size less than 2.5 µm (PM <sub>2.5</sub> )	μg/m³	60	16.0	USEPA - 40 CFR Part 50(Appendix O)
3.	Sulphur Dioxide (SO <sub>2</sub> )	μg/m³	80	12.1	IS 5182 (Part 2): 2001RA 2017
4.	Nitrogen Dioxide (NO <sub>2</sub> )	μg/m³	80	14.5	IS 5182 (Part 6): 2006RA 2017
5.	Carbon Monoxide (as CO)*	μg/m³	4000	466	IS 5182 (Part 10): 1999 RA 2014(Clause 5.0)
6.	Lead (Pb)*	μg/m³	1.0	< 0.01	IS 5182 (Part 22): 2004 RA 2014(Clause 5.0)
7.	Arsenic (as As) *	μg/m³	6.0	< 0.001	IS 5182 (Part 22): 2004 RA 2014(Clause 5.0)
8.	Nickel (as Ni) *	μg/m³	20.0	< 0.001	IS 5182 (Part 22): 2004 RA 2014(Clause 5.0)
9.	Mercury (Hg)	μg/m³	-	< 0.001	IS 5182 (Part 22): 2004 RA 2014(Clause 5.0)

- NAAOMS- National Ambient Air Quality Monitoring Standards (MoEF notification 2009)
- All values are in µg/m3
- **BDL: Below Detectable Limit**
- 24 Hrs sampling

For M/s Nilawar Laboratories,

Renoka Vaday

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### CIN No. U74140MH112009PTC196108

Report No.: GE-Nilawar/EMS/2021/Sep/45

Report Date: 09.10.2021

Name & Address of the Customer: M/s. Ambuja Cements Limited,

Add: Gare Palma IV/8 Coal Mine, Vill: Khamaria

PO: Tamnar, Dist: Raigarh-496111

Sample Description : Ambient Air Sample

Sampling Ref Method : IS 5182 (Part 14):2000 RA 2010 : GYAN Enviro Representative

Sampled by Sampling Date : 29.09.2021

Sample Receipt Date: 01.10.2021

Latitude Longitude

22.161729N 83.498074E Sampling Location: At Khamaria village (Buffer Zone)

Environment Condition: Sunny (during sampling)

Date of Analysis started : 04.10.2021 Date of Analysis completed: 08.10.2021

: 5 Days Testing Period Direction from site

North -West Distance from site 460 mt

### Results of Analysis

S.N	Test Parameters	Unit	Permissible Limit	AAQ-3 Result	Test Method
1.	Particulate Matter size less than 10 µm ( PM <sub>10</sub> )	μg/m³	100	48.7	USEPA - 40 CFR Part 50(Appendix O)
	Particulate Matter size less than 2.5 µm (PM <sub>2.5</sub> )	μg/m³	60	15.5	USEPA - 40 CFR Part 50(Appendix O)
3.	Sulphur Dioxide (SO <sub>2</sub> )	μg/m³	80	11.0	IS 5182 (Part 2): 2001RA 2017
4.	Nitrogen Dioxide (NO <sub>2</sub> )	μg/m³	80	14.1	IS 5182 (Part 6): 2006RA 2017
5.	Carbon Monoxide (as CO)*	μg/m³	4000	482.0	IS 5182 (Part 10): 1999 RA 2014(Clause 5.0)
6.	Lead ( Pb )*	μg/m³	1.0	< 0.01	IS 5182 (Part 22): 2004 RA 2014(Clause 5.0)
7.	Arsenic (as As) *	μg/m³	6.0	< 0.001	IS 5182 (Part 22): 2004 RA 2014(Clause 5.0)
8.	Nickel (as Ni) *	μg/m³	20.0	< 0.001	IS 5182 (Part 22): 2004 RA 2014(Clause 5.0)
9.	Mercury (Hg)	μg/m³		< 0.001	IS 5182 (Part 22): 2004 RA 2014(Clause 5.0)

- NAAQMS- National Ambient Air Quality Monitoring Standards (MoEF notification 2009)
- All values are in µg/m3
- **BDL: Below Detectable Limit**
- 24 Hrs sampling

For M/s Nilawar Laboratories,

NAGPUIL

Renuka Yaday (Authorized Signatory)

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# **Nilawar Laboratories**

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ISO 17025:2017 150 9001:2015 ISO 14001:2015 ISO 45001:2018 NABL ACCREDITED LAB

Bep. 2021

CIN No. U74140MH112009PTC196108

Report Date: 09.10.2021

Report No.: GE-Nilawar/EMS/2021/Sep/45

Name & Address of the Customer: M/s. Ambuja Cements Limited,

Add: Gare Palma IV/8 Coal Mine, Vill: Khamaria

PO: Tamnar, Dist: Raigarh-496111

Sample Description : Ambient Air Sample

Sampling Ref Method : IS 5182 (Part 14) :2000 RA 2010

Sampled by : GYAN Enviro Representative Sampling Date : 29.09.2021

Sample Receipt Date: 01.10.2021

Sampling Location: Nr School, Rampura village (Buffer

Environment Condition: Sunny (during sampling)

Date of Analysis started

: 04.10.2021

Date of Analysis completed: 08.10.2021 Testing Period

: 5 Days

Latitude Longitude

22.162807N 83.504231E

Direction from site Distance from site

East 400 mtr

## Results of Analysis

S.N	Test Parameters	Unit	Permissible Limit	AAQ-4 Result	Test Method
	Particulate Matter size less than 10 μm ( PM <sub>10</sub> )	μg/m³	100	50.9	USEPA - 40 CFR Part 50(Appendix O)
	Particulate Matter size less than 2.5 µm (PM <sub>2.5</sub> )	μg/m³	60	15.4	USEPA - 40 CFR Part 50(Appendix O)
3.	Sulphur Dioxide (SO <sub>2</sub> )	μg/m³	80	12.7	IS 5182 (Part 2): 2001RA 2017
4.	Nitrogen Dioxide (NO <sub>2</sub> )	μg/m³	80	16.1	IS 5182 (Part 6): 2006RA 2017
5.	Carbon Monoxide (as CO)*	μg/m <sup>1</sup>	4000	472.0	IS 5182 (Part 10): 1999 RA 2014(Clause 5.0)
6.	Lead ( Pb )*	μg/m³	1.0	< 0.01	IS 5182 (Part 22): 2004 RA 2014(Clause 5.0)
7.	Arsenic (as As) *	μg/m³	6.0	<0.002	IS 5182 (Part 22): 2004 RA 2014(Clause 5.0)
8.	Nickel (as Ni) *	μg/m³	20.0	< 0.001	IS 5182 (Part 22): 2004 RA 2014(Clause 5.0)
9.	Mercury (Hg)	μg/m³		< 0.001	IS 5182 (Part 22): 2004 RA 2014(Clause 5.0)

- NAAQMS- National Ambient Air Quality Monitoring Standards (MoEF notification 2009)
- All values are in µg/m3
- **BDL: Below Detectable Limit**
- 24 Hrs sampling

For M/s Nilawar Laboratories,

Renuka Vaday (Authorized Signatory)

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Sep-2021

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### CIN No. U74140MH112009PTC196108

Report No.: GE-Nilawar/EMS/2021/Sep/45

Report Date: 09.10.2021

Name & Address of the Customer: M/s. Ambuja Cements Limited,

Add: Gare Palma IV/8 Coal Mine, Vill: Khamaria

PO: Tamnar, Dist: Raigarh-496111

Sample Description : Ambient Air Sample

Sampling Ref Method : IS 5182 (Part

Sampled by : GYAN Enviro Representative

Sampling Date : 29.09.2021 Sample Receipt Date : 01.10.2021

Latitude :

Longitude

: IS 5182 (Part 14) :2000 RA 2010

1

22.166381N 83.497756E Sampling Location: At Durga House (Buffer Zone)

Environment Condition: Sunny (during sampling)

Date of Analysis started : 04.10.2021
Date of Analysis completed: 08.10.2021
Testing Period : 5 Days

Direction from site : South
Distance from site : 280 mtr

### Results of Analysis

S.N	Test Parameters	Unit	Permissible Limit	AAQ-5 Result	Test Method
1.	Particulate Matter size less than 10 µm ( PM <sub>10</sub> )	μg/m³	100	47.6	USEPA - 40 CFR Part 50(Appendix O)
2.	Particulate Matter size less than 2.5 µm (PM <sub>2.5</sub> )	μg/m³	60	14.3	USEPA - 40 CFR Part 50(Appendix O)
3.	Sulphur Dioxide (SO <sub>2</sub> )	μg/m³	80	11.8	IS 5182 (Part 2): 2001RA 2017
4.	Nitrogen Dioxide (NO <sub>2</sub> )	μg/m³	80	17.4	IS 5182 (Part 6): 2006RA 2017
5.	Carbon Monoxide (as CO)*	μg/m³	4000	460.0	IS 5182 (Part 10) ; 1999 RA 2014(Clause 5.0
6.	Lead ( Pb )*	μg/m³	1.0	< 0.01	IS 5182 (Part 22): 2004 RA 2014(Clause 5.0)
7.	Arsenic (as As) *	μg/m³	6.0	< 0.001	IS 5182 (Part 22): 2004 RA 2014(Clause 5.0)
8.	Nickel (as Ni) *	μg/m³	20.0	< 0.001	IS 5182 (Part 22): 2004 RA 2014(Clause 5.0)
9.	Mercury (Hg)	μg/m³		< 0.001	IS 5182 (Part 22): 2004 RA 2014(Clause 5.0)

- NAAQMS- National Ambient Air Quality Monitoring Standards (MoEF notification 2009)
- All values are in µg/m³
- BDL: Below Detectable Limit
- 24 Hrs sampling

For M/s Nilawar Laboratories,

Remuka Vadav (Authorized Signatory)

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- 3. Our liability is limited to the commercial value of the test/tests carried out.
- 4. NR-no relaxation; AG-agreeable; NA- not applicable; BDL-Below detection limit

Off.: First Floor, "Pratibha Sanku", Beside Alankar Cinema, Dharampeth, Nagpur - 10. Ph.: +91-712-2542261, 2542291, E-mail: nitawarlabs@gmail.com Laboratory: At Km 16.5, Nilawar Motors Complex, Amravati Road, Waddhamna, Nagpur - 440 023, Mob.: +91-9922409055, 9552550955

Report Date: 12.11.2021



ISO 17025:2005 ISO 9001:2015 ISO OHSAS 18001:2007 NABL ACCREDITED LAB

CIN No. U74140MH112009PTC196108

Environment Condition: Sunny (during sampling)

Name & Address of the Customer: M/s. Ambuja Cements Limited,

Add: Gare Palma IV/8 Coal Mine, Vill: Khamaria

PO: Tamnar, Dist: Raigarh-496111

Sample Description : Ambient Air Sample Sampling Location: At Site Office [Core Zone]

Sampling Ref Method : 1S 5182 (Part 14):2000 RA 2010

Report No.: GE-Nilawar/EMS/2021/Oct/38

Sampled by : GYAN Enviro Representative Date of Analysis started : 23.10.2021

Sampling Date : 20.10.2021

Date of Analysis started : 23.10.2021

Sample Receipt Date : 22.10.2021 Date of Analysis completed: 27.10.2021
Testing Period : 5 Days

Latitude: 22.169931 N Direction from site : Within site
Longitude: 83.494959E Distance from site : Nil

### Results of Analysis

S.N	Test Parameters	Unit	Permissible Limit	AAQ-1 Result	Test Method
L	Particulate Matter size less than 10 µm ( PM <sub>10</sub> )	μg/m³	100	50.8	USEPA - 40 CFR Part 50 (Appendix O)
2.	Particulate Matter size less than 2.5 µm (PM <sub>2.5</sub> )	μg/m³	60	15.1	USEPA - 40 CFR Part 50 (Appendix O)
3.	Sulphur Dioxide (SO <sub>2</sub> )	μg/m³	80	12.7	IS 5182 (Part 2): 2001 RA 2017
4.	Nitrogen Dioxide (NO <sub>2</sub> )	μg/m³	80	19.0	IS 5182 (Part 6): 2006 RA 2017
5.	Carbon Monoxide (as CO)*	μg/m³	4000	425	IS 5182 (Part 10): 1999 RA 2014 (Clause 5.0
6.	Lead ( Pb )*	μg/m³	1.0	BDL	IS 5182 (Part 22): 2004 RA 2014 (Clause 5.0)
7.	Arsenic (as As) *	μg/m³	6.0	<0.2	IS 5182 (Part 22): 2004 RA 2014 (Clause 5.0)
8.	Nickel (as Ni) *	μg/m³	20.0	BDL	IS 5182 (Part 22): 2004 RA 2014 (Clause 5.0)
9.	Mercury (Hg)	μg/m³	- 170	<0.01	IS 5182 (Part 22): 2004 RA 2014 (Clause 5.0)

- NAAQMS- National Ambient Air Quality Monitoring Standards (MoEF notification 2009)
- All values are in µg/m³
- · BDL: Below Detectable Limit
- 24 Hrs sampling

### For M/s Nilawar Laboratories,



# Renuka Yadav (Authorized Signatory)

- 1. This report should not be reproduced wholly or in part and not to be used as evidence in any court of law.
- 2. The results listed referred to the tested samples send by customer and applicable parameters only
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CIN No. U74140MH112009PTC196108

Report Date: 12.11.2021

Report No.: GE-Nilawar/EMS/2021/Oct/38 Name & Address of the Customer: M/s. Ambuja Cements Limited,

Add: Gare Palma IV/8 Coal Mine, Vill: Khamaria

PO: Tamnar, Dist: Raigarh-496111

: Ambient Air Sample Sample Description

Sampling Ref Method

: IS 5182 (Part 14) :2000 RA 2010 : GYAN Enviro Representative

83.508995

Sampled by Sampling Date Sample Receipt Date

Latitude

Longitude

: 20.10.2021

: 22.10.2021 22.178831 N

:

Sampling Location: At Banjari Temple (Buffer Zone)

Environment Condition: Sunny (during sampling)

: 23.10.2021 Date of Analysis started Date of Analysis completed: 27.10.2021 : 5 Days Testing Period

North

Direction from site Distance from site

310 Mtr

### Results of Analysis

S.N	Test Parameters	Unit	Permissible Limit	AAQ-2 Result	Test Method
1.	Particulate Matter size less than 10 µm ( PM <sub>10</sub> )	μg/m³	100	52.5	USEPA - 40 CFR Part 50 (Appendix O)
2.	Particulate Matter size less than 2.5 μm (PM <sub>2.5</sub> )	μg/m³	60	15.1	USEPA - 40 CFR Part 50 (Appendix O)
3.	Sulphur Dioxide (SO <sub>2</sub> )	$\mu g/m^3$	80	14.2	IS 5182 (Part 2): 2001 RA 2017
4.	Nitrogen Dioxide (NO <sub>2</sub> )	μg/m³	80	16.7	IS 5182 (Part 6): 2006 RA 2017
5.	Carbon Monoxide (as CO)*	μg/m³	4000	485.0	IS 5182 (Part 10): 1999 RA 2014 (Clause 5.0
6.	Lead (Pb)*	μg/m³	1.0	< 0.01	IS 5182 (Part 22): 2004 RA 2014 (Clause 5.0)
7.	Arsenic (as As) *	μg/m³	6.0	< 0.001	IS 5182 (Part 22): 2004 RA 2014 (Clause 5.0)
8.	Nickel (as Ni) *	μg/m³	20.0	< 0.001	IS 5182 (Part 22): 2004 RA 2014 (Clause 5.0)
9.	Mercury (Hg)	μg/m³		< 0.001	IS 5182 (Part 22): 2004 RA 2014 (Clause 5.0)

- NAAQMS- National Ambient Air Quality Monitoring Standards (MoEF notification 2009)
- All values are in µg/m3
- BDL: Below Detectable Limit
- 24 Hrs sampling

For M/s Nilawar Laboratories,



RenukaYadav (Authorized Signatory)

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Latitude

Longitude

ISO 17025:2005 ISO 9001:2015 ISO OHSAS 18001:2007 NABL ACCREDITED LAB

22.162807 N

83.504231 E

40

011--2021

East 400 mtr

CIN No. U74140MH112009PTC196108

Report Date: 12.11.2021 Report No.: GE-Nilawar/EMS/2021/Oct/38 Name & Address of the Customer: M/s. Ambuja Cements Limited, Add: Gare Palma IV/8 Coal Mine, Vill: Khamaria PO: Tamnar, Dist: Raigarh-496111 Sampling Location: Nr School, Rampura village (Buffer : Ambient Air Sample Sample Description : IS 5182 (Part 14) :2000 RA 2010 Sampling Ref Method Environment Condition: Sunny (during sampling) : GYAN Enviro Representative Sampled by : 23.10.2021 Sampling Date : 20.10.2021 Date of Analysis started Date of Analysis completed: 27.10.2021 Sample Receipt Date : 22.10.2021 : 5 Days Testing Period

Direction from site

Distance from site

### Results of Analysis

S.N	Test Parameters	Unit	Permissible Limit	AAQ-4 Result	Test Method
1.	Particulate Matter size less than 10 µm ( PM <sub>10</sub> )	μg/m³	100	48.7	USEPA - 40 CFR Part 50 (Appendix O)
2.	Particulate Matter size less than 2.5 µm (PM <sub>2.5</sub> )	μg/m³	60	13.6	USEPA - 40 CFR Part 50 (Appendix O)
3.	Sulphur Dioxide (SO <sub>2</sub> )	μg/m³	80	14.1	IS 5182 (Part 2): 2001 RA 2017
4.	Nitrogen Dioxide (NO <sub>2</sub> )	μg/m³	80	19.5	IS 5182 (Part 6): 2006 RA 2017
5.	Carbon Monoxide (as CO)*	μg/m³	4000	490.0	IS 5182 (Part 10): 1999 RA 2014 (Clause 5.0)
6.	Lead ( Pb )*	μg/m³	1,0	< 0.01	IS 5182 (Part 22): 2004 RA 2014 (Clause 5.0)
7.	Arsenic (as As) *	μg/m³	6.0	< 0.002	IS 5182 (Part 22): 2004 RA 2014 (Clause 5.0)
8.	Nickel (as Ni) *	μg/m³	20.0	<0.001	IS 5182 (Part 22): 2004 RA 2014 (Clause 5.0)
9.	Mercury (Hg)	μg/m³	-	<0.001	IS 5182 (Part 22): 2004 RA 2014 (Clause 5.0)

- NAAQMS- National Ambient Air Quality Monitoring Standards (MoEF notification 2009)
- All values are in μg/m³
- · BDL: Below Detectable Limit
- 24 Hrs sampling

## For M/s Nilawar Laboratories,



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Longitude

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83.497756 E

00-2021

280 mtr

CIN No. U74140MH112009PTC196108

Report Date: 12.11.2021 Report No.: GE-Nilawar/EMS/2021/Oct/38 Name & Address of the Customer: M/s. Ambuja Cements Limited, Add: Gare Palma IV/8 Coal Mine, Vill: Khamaria PO: Tamnar, Dist: Raigarh-496111 Sampling Location: At Durga House (Buffer Zone) : Ambient Air Sample Sample Description : IS 5182 (Part 14) :2000 RA 2010 Sampling Ref Method Environment Condition: Sunny (during sampling) Sampled by : GYAN Enviro Representative : 23.10.2021 Date of Analysis started : 20.10.2021 Sampling Date Date of Analysis completed: 27.10.2021 : 22.10.2021 Sample Receipt Date Testing Period : 5 Days Direction from site South 22.166381 N Latitude

Distance from site

### Results of Analysis

S.N	Test Parameters	Unit	Permissible Limit	AAQ-5 Result	Test Method
1.	Particulate Matter size less than 10 µm ( PM <sub>10</sub> )	μg/m³	100	49.5	USEPA - 40 CFR Part 50 (Appendix O)
2.	Particulate Matter size less than 2.5 µm (PM <sub>2.5</sub> )	μg/m³	60	15.1	USEPA - 40 CFR Part 50 (Appendix O)
3.	Sulphur Dioxide (SO <sub>2</sub> )	μg/m³	80	13.5	IS 5182 (Part 2): 2001 RA 2017
4.	Nitrogen Dioxide (NO <sub>2</sub> )	μg/m³	80	18.8	IS 5182 (Part 6): 2006 RA 2017
5.	Carbon Monoxide (as CO)*	μg/m³	4000	454.0	IS 5182 (Part 10): 1999 RA 2014 (Clause 5.0)
6.	Lead ( Pb )*	μg/m³	1.0	< 0.01	IS 5182 (Part 22): 2004 RA 2014 (Clause 5.0)
7.	Arsenic (as As) *	μg/m³	6.0	<0.001	IS 5182 (Part 22): 2004 RA 2014 (Clause 5.0)
8.	Nickel (as Ni) *	μg/m³	20.0	< 0.001	IS 5182 (Part 22): 2004 RA 2014 (Clause 5.0)
9.	Mercury (Hg)	μg/m³		< 0.001	IS 5182 (Part 22): 2004 RA 2014 (Clause 5.0)

- NAAQMS- National Ambient Air Quality Monitoring Standards (MoEF notification 2009)
- All values are in μg/m³
- · BDL: Below Detectable Limit
- 24 Hrs sampling

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CIN No. U74140MH112009PTC196108

Mov -2021

Report No.: GE-Nilawa	r/EMS/2021/Nov/29	Report Date: 08.12.202				
Name & Address of the	Customer: M/s. Ambuja Cements Lie Add: Gare Palma IV/8 Coa PO: Tamnar, Dist: Raigar	l Mine, Vill: Khamaria				
Sample Description : Ambient Air Sample		Sampling Location: At Site Office [Core Zone]				
Sampling Ref Method	: IS 5182 (Part 14) :2000 RA 2010 : GYAN Enviro Representative : 17.11.2021 : 25.11.2021	Environment Condition: Sunny (during sampling)				
Sampled by Sampling Date Sample Receipt Date		Date of Analysis started : 26.11.2021 Date of Analysis completed: 30.11.2021 Testing Period : 5 Days				
Latitude: 22.169931 N Longitude: 83.494959E	13.	Direction from site : Within site Distance from site : Nil				

# Results of Analysis

S.N	Test Parameters	Unit	Permissible Limit	AAQ-1 Result	Test Method
1.	Particulate Matter size less than 10 µm ( PM <sub>10</sub> )	μg/m³	100	53.4	USEPA - 40 CFR Part 50 (Appendix O)
2.	Doetinglete Metter size less		60	13.7	USEPA - 40 CFR Part 50 (Appendix O)
3.	Sulphur Dioxide (SO <sub>2</sub> )	μg/m³	80	15.2	IS 5182 (Part 2): 2001 RA 2017
4.	Nitrogen Dioxide (NO <sub>2</sub> )	μg/m³	80	19.5	IS 5182 (Part 6): 2006 RA 2017
5.	Carbon Monoxide (as CO)*	μg/m³	4000	455.0	IS 5182 (Part 10): 1999 RA 2014 (Clause 5.0)
6.	Lead ( Pb )*	μg/m³	1.0	BDL	IS 5182 (Part 22): 2004 RA 2014 (Clause 5.0)
7.	Arsenic (as As) *	μg/m³	6.0	<0.2	IS 5182 (Part 22): 2004 RA 2014 (Clause 5.0)
8.	Nickel (as Ni) *	μg/m³	20.0	BDL	IS 5182 (Part 22): 2004 RA 2014 (Clause 5.0)
9.	Mercury (Hg)	μg/m³	**	<0.01	IS 5182 (Part 22): 2004 RA 2014 (Clause 5.0)

- NAAQMS- National Ambient Air Quality Monitoring Standards (MoEF notification 2009)
- All values are in µg/m³
- . BDL: Below Detectable Limit
- 24 Hrs sampling

For M/s Nilawar Laboratories,



Renuka Yadav (Authorized Signatory)

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NABL ACCREDITED LAB

CIN No. U74140MH112009PTC196108

Report No.: GE-Nilawar/EMS/2021/Nov/29 Report Date: 08.12.2021 Name & Address of the Customer: M/s. Ambuja Cements Limited. Add: Gare Palma IV/8 Coal Mine, Vill: Khamaria PO: Tamnar, Dist: Raigarh-496111 Sample Description Ambient Air Sample Sampling Location: At Banjari Temple (Buffer Zone) Sampling Ref Method : IS 5182 (Part 14) :2000 RA 2010 Environment Condition: Sunny (during sampling) Sampled by GYAN Enviro Representative Date of Analysis started : 26.11.2021 Sampling Date : 17.1.12021 Date of Analysis completed: 30.11.2021 Sample Receipt Date 25.11.2021 Testing Period : 5 Days 22.178831 N Latitude Direction from site North Longitude 83.508995 Distance from site 310 Mtr

### Results of Analysis

S.N	Test Parameters	Unit	Permissible Limit	AAQ-2 Result	Test Method
	Particulate Matter size less than 10 µm ( PM <sub>10</sub> )	μg/m³	100	50.8	USEPA - 40 CFR Part 50 (Appendix O)
2. Particulate Matter size less than 2.5 μm (PM <sub>2.5</sub> )		μg/m³	60	14.3	USEPA - 40 CFR Part 50 (Appendix O)
3.	Sulphur Dioxide (SO <sub>2</sub> )	μg/m³	80	14.9	IS 5182 (Part 2): 2001 RA 2017
4.	Nitrogen Dioxide (NO <sub>2</sub> )	μg/m³	80	18.2	IS 5182 (Part 6): 2006 RA 2017
5.	Carbon Monoxide (as CO)*	μg/m³	4000	472.0	IS 5182 (Part 10): 1999 RA 2014 (Clause 5.0
6.	Lead ( Pb )*	μg/m³	1.0	< 0.01	IS 5182 (Part 22): 2004 RA 2014 (Clause 5.0)
7.	Arsenic (as As) *	μg/m³	6.0	< 0.001	IS 5182 (Part 22): 2004 RA 2014 (Clause 5.0)
8.	Nickel (as Ni) *	$\mu g/m^3$	20.0	< 0.001	IS 5182 (Part 22): 2004 RA 2014 (Clause 5.0)
9.	Mercury (Hg)	$\mu g/m^3$		< 0.001	IS 5182 (Part 22): 2004 RA 2014 (Clause 5.0)

- NAAQMS- National Ambient Air Quality Monitoring Standards (MoEF notification 2009)
- All values are in µg/m³
- . BDL: Below Detectable Limit
- · 24 Hrs sampling

For M/s Nilawar Laboratories,

Renuka Vadav

Renuka Yadav (Authorized Signatory)

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ISO 17025:2017 ISO 9001:2015 ISO 14001:2015 ISO 45001:2018 NABL ACCREDITED LAB

CIN No. U74140MH112009PTC196108

Report Date: 08.12.2021 Report No.: GE-Nilawar/EMS/2021/Nov/29 Name & Address of the Customer: M/s. Ambuja Cements Limited, Add: Gare Palma IV/8 Coal Mine, Vill: Khamaria PO: Tamnar, Dist: Raigarh-496111 Sampling Location: At Khamaria village (Buffer Zone) : Ambient Air Sample Sample Description : IS 5182 (Part 14) :2000 RA 2010 Sampling Ref Method Environment Condition: Sunny (during sampling) : GYAN Enviro Representative Sampled by : 26.11.2021 Date of Analysis started Sampling Date : 17.11.2021 Date of Analysis completed: 30.11.2021 Sample Receipt Date : 25.11.2021 Testing Period : 5 Days North - West Direction from site Latitude 22.161729 N Distance from site 460 mt Longitude 83.498074 E

## Results of Analysis

S.N	Test Parameters	Unit	Permissible Limit	AAQ-3 Result	Test Method
1.	Particulate Matter size less than 10 µm ( PM <sub>10</sub> )	μg/m³	100	51.9	USEPA - 40 CFR Part 50 (Appendix O)
2. Particulate Matter size less than 2.5 μm (PM <sub>2.5</sub> )		μg/m³	60	15.3	USEPA - 40 CFR Part 50 (Appendix O)
3.	Sulphur Dioxide (SO <sub>2</sub> )	μg/m³	80	15.8	IS 5182 (Part 2): 2001 RA 2017
4.	Nitrogen Dioxide (NO <sub>2</sub> )	μg/m³	80	18.2	IS 5182 (Part 6): 2006 RA 2017
5.	Carbon Monoxide (as CO)*	μg/m³	4000	465.0	IS 5182 (Part 10): 1999 RA 2014 (Clause 5.0)
6.	Lead ( Pb )*	μg/m³	1.0	< 0.01	IS 5182 (Part 22): 2004 RA 2014 (Clause 5.0)
7.	Arsenic (as As) *	μg/m³	6.0	< 0.001	IS 5182 (Part 22): 2004 RA 2014 (Clause 5.0)
8.	Nickel (as Ni) *	μg/m³	20.0	< 0.001	IS 5182 (Part 22): 2004 RA 2014 (Clause 5.0)
9,	Mercury (Hg)	μg/m³	-	< 0.001	IS 5182 (Part 22): 2004 RA 2014 (Clause 5.0)

- NAAQMS- National Ambient Air Quality Monitoring Standards (MoEF notification 2009)
- All values are in μg/m³
- · BDL: Below Detectable Limit
- 24 Hrs sampling

For M/s Nilawar Laboratories,



Renuka Yadav (Authorized Signatory)

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NABL ACCREDITED LAB

CIN No. U74140MH112009PTC196108

Nov-2021

Report No.: GE-Nilawa	r/EMS/2021/Nov/29	Report Date: 08.12.2021				
Name & Address of the	Customer: M/s. Ambuja Cements Lie Add: Gare Palma IV/8 Coa	l Mine, Vill: Khamaria				
	PO: Tamnar, Dist: Raigar					
Sample Description Sampling Ref Method	: Ambient Air Sample : 1S 5182 (Part 14) :2000 RA 2010	Sampling Location: Nr School, Rampura village (Buffe Zone)				
Sampled by	: GYAN Enviro Representative	Environment Condition: Sunny (during sampling)				
Sampling Date	: 17.11.2021	Date of Analysis started : 26.11.2021				
Sample Receipt Date	: 25.11.2021	Date of Analysis completed: 30.11.2021				
		Testing Period : 5 Days				
Latitude	: 22.162807 N	Direction from site : East				
Longitude	: 83.504231E	Distance from site : 400 mtr				

## Results of Analysis

S.N	Test Parameters	Unit	Permissible Limit	AAQ-4 Result	Test Method
1.	Particulate Matter size less than 10 µm ( PM <sub>10</sub> )	μg/m³	100	50.0	USEPA - 40 CFR Part 50 (Appendix O)
	Particulate Matter size less than 2.5 µm (PM <sub>2.5</sub> )	μg/m³	60	14.9	USEPA - 40 CFR Part 50 (Appendix O)
3.	Sulphur Dioxide (SO <sub>2</sub> )	μg/m <sup>3</sup>	80	15.3	IS 5182 (Part 2): 2001 RA 2017
4.	Nitrogen Dioxide (NO <sub>2</sub> )	μg/m³	80	19.0	IS 5182 (Part 6): 2006 RA 2017
5.	Carbon Monoxide (as CO)*	μg/m³	4000	470.0	IS 5182 (Part 10): 1999 RA 2014 (Clause 5.0
6.	Lead ( Pb )*	μg/m³	1.0	<0.01	IS 5182 (Part 22): 2004 RA 2014 (Clause 5.0)
7.	Arsenic (as As) *	μg/m³	6.0	< 0.002	IS 5182 (Part 22): 2004 RA 2014 (Clause 5.0)
8.	Nickel (as Ni) *	μg/m³	20.0	< 0.001	IS 5182 (Part 22): 2004 RA 2014 (Clause 5.0)
9.	Mercury (Hg)	μg/m³		< 0.001	IS 5182 (Part 22): 2004 RA 2014 (Clause 5.0)

- NAAQMS- National Ambient Air Quality Monitoring Standards (MoEF notification 2009)
- All values are in μg/m³
- · BDL: Below Detectable Limit
- 24 Hrs sampling

For M/s Nilawar Laboratories,



Renuka Yadav (Authorized Signatory)

## Note:

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Nov-2021

CIN No. U74140MH112009PTC196108

Report No.: GE-Nilawa	r/EMS/2021/Nov/29	Report Date: 08.12.202			
Name & Address of the	Customer: M/s. Ambuja Cements Lie Add: Gare Palma IV/8 Coa PO: Tamnar, Dist: Raigar	l Mine, Vill: Khamaria			
Sample Description	: Ambient Air Sample	Sampling Location: At Durga House (Buffer Zone)			
Sampling Ref Method	: IS 5182 (Part 14) :2000 RA 2010	Environment Condition: Sunny (during sampling)			
Sampled by Sampling Date Sample Receipt Date	: GYAN Enviro Representative : 18.11.2021 : 25.11.2021	Date of Analysis started : 26.11.2021 Date of Analysis completed: 30.11.2021 Testing Period : 5 Days			
Latitude :	22.166381 N	Direction from site : South			
Longitude	: 83.497756 E	Distance from site : 280 mtr			

## Results of Analysis

S.N	Test Parameters	Unit	Permissible Limit	AAQ-5 Result	Test Method
1.	Particulate Matter size less than 10 µm ( PM <sub>10</sub> )	μg/m³	100	51.3	USEPA - 40 CFR Part 50 (Appendix O)
2.	Particulate Matter size less than 2.5 µm (PM <sub>25</sub> )	μg/m³	60	14.6	USEPA - 40 CFR Part 50 (Appendix O)
3.	Sulphur Dioxide (SO <sub>2</sub> )	μg/m³	80	15.0	IS 5182 (Part 2): 2001 RA 2017
4.	Nitrogen Dioxide (NO <sub>2</sub> )	μg/m³	80	19.5	IS 5182 (Part 6): 2006 RA 2017
5.	Carbon Monoxide (as CO)*	μg/m³	4000	470.0	IS 5182 (Part 10): 1999 RA 2014 (Clause 5.0)
6.	Lead ( Pb )*	μg/m³	1.0	<0.01	IS 5182 (Part 22): 2004 RA 2014 (Clause 5.0)
7.	Arsenic (as As) *	μg/m³	6.0	< 0.001	IS 5182 (Part 22): 2004 RA 2014 (Clause 5.0)
8.	Nickel (as Ni) *	μg/m³	20.0	< 0.001	IS 5182 (Part 22): 2004 RA 2014 (Clause 5.0)
9.	Mercury (Hg)	μg/m³		< 0.001	IS 5182 (Part 22): 2004 RA 2014 (Clause 5.0)

- NAAQMS- National Ambient Air Quality Monitoring Standards (MoEF notification 2009)
- All values are in μg/m³
- · BDL: Below Detectable Limit
- 24 Hrs sampling

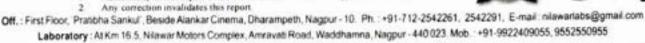
For M/s Nilawar Laboratories,



Renuka Yadav (Authorized Signatory)

Note:

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Report Date: 06.01.2021



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NABL ACCREDITED LAB

CIN No. U74140MH112009PTC196108

Report No.: GE-Nilawar/EMS/2021-22/Dec/50

Name & Address of the Customer: M/s. Ambuja Cements Limited,

Add: Gare Palma IV/8 Coal Mine, Vill: Khamaria

PO: Tamnar, Dist: Raigarh-496111

Sample Description : Ambient Air Sample

Sampling Ref Method : IS 5182 (Part 14) :2000 RA 2010 Sampled by :GYAN Enviro Representative

Sampling Date :27.12.2021

Sample Receipt Date :31.12.2021

Latitude: 22.169931N Longitude: 83.494959E Sampling Location: At Site Office [Core Zone]

Environment Condition: Sunny (during sampling)

Date of Analysis started :31.12.2021 Date of Analysis completed: 03.01.2022 Testing Period :4 Days

Within site Direction from site

Nil Distance from site 1

## Results of Analysis

S.N	Test Parameters	Unit	Permissible Limit	AAQ-1 Result	Test Method
1.	Particulate Matter size less than 10 µm ( PM <sub>10</sub> )	μg/m³	100	56.6	USEPA - 40 CFR Part 50(Appendix O)
2.	Particulate Matter size less than 2.5 µm (PM <sub>25</sub> )	μg/m³	60	16.7	USEPA - 40 CFR Part 50(Appendix O)
3.	Sulphur Dioxide (SO <sub>2</sub> )	μg/m³	80	16.6	IS 5182 (Part 2): 2001RA 2017
4.	Nitrogen Dioxide (NO <sub>2</sub> )	μg/m³	80	20.8	IS 5182 (Part 6): 2006RA 2017
5.	Carbon Monoxide (as CO)*	μg/m³	4000	466.0	IS 5182 (Part 10): 1999 RA 2014(Clause 5.0)
6.	Lead ( Pb )*	μg/m³	1.0	BDL	IS 5182 (Part 22): 2004 RA 2014(Clause 5.0)
7.	Arsenic (as As) *	μg/m³	6.0	<0.2	IS 5182 (Part 22): 2004 RA 2014(Clause 5.0)
8.	Nickel (as Ni) *	μg/m³	20.0	BDL	IS 5182 (Part 22): 2004 RA 2014(Clause 5.0)
9.	Mercury (Hg)	μg/m³		< 0.01	IS 5182 (Part 22): 2004 RA 2014(Clause 5.0)

- NAAOMS- National Ambient Air Quality Monitoring Standards (MoEF notification 2009)
- All values are in ug/m3
- BDL: Below Detectable Limit
- 24 Hrs sampling

For M/s Nilawar Laboratories,

Renuks Yaday (Authorized Signatory)

### Note -

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- 2. The results listed referred to the tested samples and applicable parameters only.
- 3. Our Biobility is limited to the commercial value of the test/tests carried out.
- 4. NR-no relaxation; AG-agreeable; NA- not applicable; BDL-Below detection limit

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ISO 17025:2017 ISO 9001:2015 ISO 14001:2015 ISO 45001:2018

NABL ACCREDITED LAB

## CIN No. U74140MH112009PTC196108

Report Date: 06.01.2021 Report No.: GE-Nilawar/EMS/2021-22/Dec/50 Name & Address of the Customer: M/s. Ambuja Cements Limited, Add: Gare Palma IV/8 Coal Mine, Vill: Khamaria PO: Tamnar, Dist: Raigarh-496111 Sample Description Sampling Location: At Banjari Temple (Buffer Zone) : Ambient Air Sample Sampling Ref Method : IS 5182 (Part 14) :2000 RA 2010 Environment Condition: Sunny (during sampling) Sampled by :GYAN Enviro Representative :31.12.2021 Date of Analysis started Sampling Date :27.12.2021 Date of Analysis completed: 03.01.2022 Sample Receipt Date: 31.12.2021 :4 Days Testing Period Latitude North 22.178831N Direction from site 2 Longitude 310 Mtr 83.508995 Distance from site

## Results of Analysis

S.N	Test Parameters	Unit	Permissible Limit	AAQ-2 Result	Test Method
1.	Particulate Matter size less than 10 µm ( PM <sub>10</sub> )	μg/m³	100	55.0	USEPA - 40 CFR Part 50(Appendix O)
	Particulate Matter size less than 2.5 µm (PM <sub>2.5</sub> )	μg/m³	60	18.6	USEPA - 40 CFR Part 50(Appendix O)
3.	Sulphur Dioxide (SO <sub>2</sub> )	μg/m³	80	17.2	IS 5182 (Part 2): 2001RA 2017
4.	Nitrogen Dioxide (NO <sub>2</sub> )	μg/m³	80	20.0	IS 5182 (Part 6): 2006RA 2017
5.	Carbon Monoxide (as CO)*	μg/m³	4000	459.0	IS 5182 (Part 10) ; 1999 RA 2014(Clause 5.0)
6.	Lead ( Pb )*	μg/m³	1.0	< 0.01	IS 5182 (Part 22): 2004 RA 2014(Clause 5.0)
7.	Arsenic (as As) *	μg/m³	6.0	< 0.001	IS 5182 (Part 22): 2004 RA 2014(Clause 5.0)
8.	Nickel (as Ni) *	$\mu g/m^3$	20.0	< 0.001	IS 5182 (Part 22): 2004 RA 2014(Clause 5.0)
9.	Mercury (Hg)	μg/m³	-	< 0.001	IS 5182 (Part 22): 2004 RA 2014(Clause 5.0)

- NAAQMS- National Ambient Air Quality Monitoring Standards (MoEF notification 2009)
- All values are in µg/m³
- BDL: Below Detectable Limit
- 24 Hrs sampling

For M/s Nilawar Laboratories,

NAGPUT O

Renula Yaday (Authorized Signatury)

#### Note -

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Report Date: 06.01.2021



# Nilawar Laboratories

(A Unit of MNEC Consultants Pvt. Ltd)

ISO 17025:2017 150 9001:2015 ISO 14001:2015 ISO 45001:2018 NABL ACCREDITED LAB

CIN No. U74140MH112009PTC196108

Report No.: GE-Nilawar/EMS/2021-22/Dec/50

Name & Address of the Customer: M/s. Ambuja Cements Limited,

Add: Gare Palma IV/8 Coal Mine, Vill: Khamaria

PO: Tamnar, Dist: Raigarh-496111

Sample Description : Ambient Air Sample

Sampling Ref Method : IS 5182 (Part 14) :2000 RA 2010

Sampled by :GYAN Enviro Representative Sampling Date :27.12.2021

Sample Receipt Date: 31.12.2021

Latitude

22.161729N Longitude 83.498074E Sampling Location: At Khamaria village (Buffer Zone)

Environment Condition: Sunny (during sampling)

:31.12.2021 Date of Analysis started Date of Analysis completed: 03.01.2022

Testing Period :4 Days

North -West Direction from site 460 mt Distance from site

## Results of Analysis

S.N	Test Parameters	Unit	Permissible Limit	AAQ-3 Result	Test Method
1.	Particulate Matter size less than 10 µm ( PM <sub>10</sub> )	μg/m³	100	53.6	USEPA - 40 CFR Part 50(Appendix O)
0.00	Particulate Matter size less than 2.5 µm (PM <sub>2.5</sub> )	μg/m³	60	17.3	USEPA - 40 CFR Part 50(Appendix O)
3.	Sulphur Dioxide (SO <sub>2</sub> )	μg/m³	80	15.3	IS 5182 (Part 2): 2001RA 2017
4.	Nitrogen Dioxide (NO <sub>2</sub> )	μg/m³	80	21.2	IS 5182 (Part 6): 2006RA 2017
5.	Carbon Monoxide (as CO)*	μg/m³	4000	462.0	IS 5182 (Part 10): 1999 RA 2014(Clause 5.0)
6.	Lead ( Pb )*	μg/m³	1.0	< 0.01	IS 5182 (Part 22): 2004 RA 2014(Clause 5.0)
7.	Arsenic (as As) *	μg/m³	6.0	< 0.001	IS 5182 (Part 22): 2004 RA 2014(Clause 5.0)
8.	Nickel (as Ni) *	μg/m³	20.0	<0.001	IS 5182 (Part 22): 2004 RA 2014(Clause 5.0)
9.	Mercury (Hg)	μg/m³	-	< 0.001	IS 5182 (Part 22): 2004 RA 2014(Clause 5.0)

- NAAOMS- National Ambient Air Quality Monitoring Standards (MoEF notification 2009)
- All values are in µg/m3
- **BDL: Below Detectable Limit**
- 24 Hrs sampling

For M/s Nilawar Laboratories,

NAGPUS

Renuka Yaday

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- 1. Our liability is limited to the commercial value of the test/tests carried out.
- 4. NR-no relaxation; AG-agreeable; NA- not applicable; BDL-Below detection limit

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Dec - 2021

400 mtr

TOTAL TOTAL

## CIN No. U74140MH112009PTC196108

Report Date: 06.01.2021 Report No.: GE-Nilawar/EMS/2021-22/Dec/50 Name & Address of the Customer: M/s. Ambuja Cements Limited, Add: Gare Palma IV/8 Coal Mine, Vill: Khamaria PO: Tamnar, Dist: Raigarh-496111 Sampling Location: Nr School, Rampura village (Buffer : Ambient Air Sample Sample Description Sampling Ref Method : IS 5182 (Part 14) :2000 RA 2010 Environment Condition: Sunny (during sampling) Sampled by :GYAN Enviro Representative :31.12.2021 Sampling Date :27.12.2021 Date of Analysis started Date of Analysis completed: 03.01.2022 Sample Receipt Date: 31.12.2021 :4 Days Testing Period **Fast** Direction from site Latitude 22.162807N

## Results of Analysis

83.504231E

Distance from site

S.N	Test Parameters	Unit	Permissible Limit	AAQ-4 Result	Test Method
1.	Particulate Matter size less than 10 µm ( PM <sub>10</sub> )	μg/m³	100	55.1	USEPA - 40 CFR Part 50(Appendix O)
	Particulate Matter size less than 2.5 µm (PM <sub>2.5</sub> )	μg/m³	60	18.4	USEPA - 40 CFR Part 50(Appendix O)
3.	Sulphur Dioxide (SO <sub>2</sub> )	μg/m³	80	14.8	IS 5182 (Part 2): 2001RA 2017
4.	Nitrogen Dioxide (NO <sub>2</sub> )	μg/m³	80	19.9	IS 5182 (Part 6): 2006RA 2017
5.	Carbon Monoxide (as CO)*	$\mu g/m^3$	4000	495.0	IS 5182 (Part 10): 1999 RA 2014(Clause 5.0)
6.	Lead (Pb)*	μg/m³	1.0	<0.01	IS 5182 (Part 22): 2004 RA 2014(Clause 5.0)
7.	Arsenic (as As) *	μg/m³	6.0	< 0.002	IS 5182 (Part 22): 2004 RA 2014(Clause 5.0)
8.	Nickel (as Ni) *	μg/m³	20.0	< 0.001	IS 5182 (Part 22): 2004 RA 2014(Clause 5.0)
9.	Mercury (Hg)	μg/m³	-	< 0.001	IS 5182 (Part 22): 2004 RA 2014(Clause 5.0)

NAAQMS- National Ambient Air Quality Monitoring Standards (MoEF notification 2009)

All values are in µg/m³

BDL: Below Detectable Limit

24 Hrs sampling

For M/s Nilawar Laboratories,

Renuka Yaday (Authorized Signitury)

#### Note -

Longitude

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4. NR-no relaxation; AG-agreeable; NA- not applicable; BDL-Below detection limit

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Longitude

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Dec - 2021

280 mtr

## CIN No. U74140MH112009PTC196108

Report No.: GE-Nilawar/EMS/2021-22/Dec/50 Report Date: 06.01.2021 Name & Address of the Customer: M/s. Ambuja Cements Limited, Add: Gare Palma IV/8 Coal Mine, Vill: Khamaria PO: Tamnar, Dist: Raigarh-496111 Sample Description : Ambient Air Sample Sampling Location: At Durga House (Buffer Zone) Sampling Ref Method : IS 5182 (Part 14) :2000 RA 2010 Environment Condition: Sunny (during sampling) Sampled by :GYAN Enviro Representative Date of Analysis started :31.12.2021 Sampling Date :27.12.2021 Date of Analysis completed: 03.01.2022 Sample Receipt Date: 31.12.2021 :4 Days Testing Period Latitude 22.166381N Direction from site

## Results of Analysis

Distance from site

83.497756E

S.N	Test Parameters	Unit	Permissible Limit	AAQ-5 Result	Test Method
1.	Particulate Matter size less than 10 µm ( PM <sub>10</sub> )	μg/m³	100	54.8	USEPA - 40 CFR Part 50(Appendix O)
	Particulate Matter size less than 2.5 µm (PM <sub>2.5</sub> )	μg/m³	60	18.8	USEPA - 40 CFR Part 50(Appendix O)
3.	Sulphur Dioxide (SO <sub>2</sub> )	μg/m³	80	14.3	IS 5182 (Part 2): 2001RA 2017
4.	Nitrogen Dioxide (NO <sub>2</sub> )	μg/m³	80	22.4	IS 5182 (Part 6): 2006RA 2017
5.	Carbon Monoxide (as CO)*	μg/m³	4000	469.0	IS 5182 (Part 10): 1999 RA 2014(Clause 5.0)
6.	Lead ( Pb )*	μg/m³	1.0	<0.01	IS 5182 (Part 22): 2004 RA 2014(Clause 5.0)
7.	Arsenic (as As) *	$\mu g/m^3$	6.0	< 0.001	IS 5182 (Part 22): 2004 RA 2014(Clause 5.0)
8.	Nickel (as Ni) *	μg/m³	20.0	< 0.001	IS 5182 (Part 22): 2004 RA 2014(Clause 5.0)
9.	Mercury (Hg)	μg/m³	-	< 0.001	IS 5182 (Part 22): 2004 RA 2014(Clause 5.0)

- NAAQMS- National Ambient Air Quality Monitoring Standards (MoEF notification 2009)
- All values are in µg/m³
- BDL: Below Detectable Limit
- 24 Hrs sampling

For M/s Nilawat Laboratories,

- NAGPUT

Renuka Yaday (Authorized Signatury)

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CIN No. U74140MH112009PTC196108

Report Date: 09.02.2022 Report No.: GE-Nilawar/EMS/2021-22/Jan/32 Name & Address of the Customer: M/s. Ambuja Cements Limited, Add: Gare Palma IV/8 Coal Mine, Vill: Khamaria, PO: Tamnar, Dist: Raigarh-496111 Sampling Location: At Site Office [Core Zone] Sample Description : Ambient Air Sample Environment Condition: Sunny (during sampling) Sampling Ref Method IS 5182 (Part 14) :2000 RA 2010 : 28.01.2022 Sampled by GYAN Enviro Representative Date of Analysis started 24.01.2022 Date of Analysis completed: 01.02.2022 Sampling Date : 27.01.2022 : 5 Days Sample Receipt Date Testing Period Within site Direction from site Latitude: 22.169931 N Distance from site Nil Longitude: 83.494959E

Docults of Analysis

	Kesun		T		
S.N	Test Parameters	Unit	Permissible Limit	AAQ-1 Result	Test Method
1.	Particulate Matter size less than 10 µm ( PM <sub>10</sub> )	μg/m³	100	57.9	USEPA - 40 CFR Part 50 (Appendix O)
2.	Particulate Matter size less than 2.5 µm (PM <sub>2.5</sub> )	μg/m³	60	17.2	USEPA - 40 CFR Part 50 (Appendix O)
3.	Sulphur Dioxide (SO <sub>2</sub> )	μg/m³	80	15.3	IS 5182 (Part 2): 2001 RA 2017
4.	Nitrogen Dioxide (NO <sub>2</sub> )	μg/m³	80	19.0	IS 5182 (Part 6): 2006 RA 2017
5.	Carbon Monoxide (as CO)*	μg/m³	4000	450.0	IS 5182 (Part 10): 1999 RA 2014 (Clause 5.0)
6.	Lead ( Pb )*	μg/m³	1.0	BDL	IS 5182 (Part 22): 2004 RA 2014 (Clause 5.0)
7.	Arsenic (as As) *	$\mu g/m^3$	6.0	<0.2	IS 5182 (Part 22): 2004 RA 2014 (Clause 5.0)
8.	Nickel (as Ni) *	μg/m³	20.0	BDL	IS 5182 (Part 22): 2004 RA 2014 (Clause 5.0)
9.	Mercury (Hg)	μg/m³	-	<0.01	IS 5182 (Part 22): 2004 RA 2014 (Clause 5.0)

- NAAQMS- National Ambient Air Quality Monitoring Standards (MoEF notification 2009)
- All values are in µg/m3, BDL: Below Detectable Limit 24 Hrs sampling

Note: Ambient air quality is meeting the norms as per CPCB guidelines for above parameters

For M/s Nilawar Laboratories,

Renuka Yadav (Authorized Signatory)

Authenticity of this report could be validated with office copy at Nilawar lab. Any correction invalidates this report







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#### CIN No. U74140MH112009PTC196108

Report No.: GE-Nilawar/EMS/2021-22/Jan/32 Report Date: 09.02.2022 Name & Address of the Customer: M/s. Ambuja Cements Limited, Add: Gare Palma IV/8 Coal Mine, Vill: Khamaria, PO: Tamnar, Dist: Raigarh-496111 Sample Description : Ambient Air Sample Sampling Location: At Site Office [Core Zone] Sampling Ref Method : IS 5182 (Part 14) :2000 RA 2010 Environment Condition: Sunny (during sampling) Sampled by : GYAN Enviro Representative Date of Analysis started : 28.01.2022 Sampling Date : 24.01.2022 Date of Analysis completed: 01.02.2022 Sample Receipt Date : 27.01.2022 Testing Period : 5 Days **Latitude:** 22.169931 N **Direction from site** Within site Longitude: 83.494959E Distance from site Nil

**Results of Analysis** 

S.N		Unit	Permissible	440.2	Toot Mothed
5.11	Test Parameters	Unit	Limit	AAQ-2 Result	Test Method
			Lillit	Result	
1.	Particulate Matter size less than 10 µm ( PM <sub>10</sub> )	$\mu g/m^3$	100	57.9	USEPA - 40 CFR Part 50 (Appendix O)
2.	Particulate Matter size less than 2.5 µm (PM <sub>2.5</sub> )	$\mu g/m^3$	60	17.2	USEPA - 40 CFR Part 50 (Appendix O)
3.	Sulphur Dioxide (SO <sub>2</sub> )	$\mu g/m^3$	80	15.3	IS 5182 (Part 2): 2001 RA 2017
4.	Nitrogen Dioxide (NO <sub>2</sub> )	$\mu g/m^3$	80	19.0	IS 5182 (Part 6): 2006 RA 2017
5.	Carbon Monoxide (as CO)*	$\mu g/m^3$	4000	450.0	IS 5182 (Part 10): 1999 RA 2014 (Clause 5.0)
6.	Lead ( Pb )*	$\mu g/m^3$	1.0	BDL	IS 5182 (Part 22): 2004 RA 2014 (Clause 5.0)
7.	Arsenic (as As) *	$\mu g/m^3$	6.0	< 0.2	IS 5182 (Part 22): 2004 RA 2014 (Clause 5.0)
8.	Nickel (as Ni) *	$\mu g/m^3$	20.0	BDL	IS 5182 (Part 22): 2004 RA 2014 (Clause 5.0)
9.	Mercury (Hg)	$\mu g/m^3$		< 0.01	IS 5182 (Part 22): 2004 RA 2014 (Clause 5.0)

- NAAQMS- National Ambient Air Quality Monitoring Standards (MoEF notification 2009)
- All values are in μg/m³, BDL: Below Detectable Limit 24 Hrs sampling

**Note:** Ambient air quality is meeting the norms as per CPCB guidelines for above parameters

For M/s Nilawar Laboratories,



Renuka Yadav (Authorized Signatory)

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CIN No. U74140MH112009PTC196108

Report No.: GE-Nilawa	r/EMS/2021-22/Jan/32	Report Date: 09.02.202			
Name & Address of the	Customer: M/s. Ambuja Cements Lin Add: Gare Palma IV/8 Coal M	mited, inc, Vill: Khamaria, PO: Tamnar, Dist: Raigarh-496111			
Sample Description	: Ambient Air Sample	Sampling Location: At Khamaria village (Buffer Zone)			
Sampling Ref Method	: IS 5182 (Part 14) :2000 RA 2010	Environment Condition: Sunny (during sampling)			
Sampled by	: GYAN Enviro Representative	Date of Analysis started : 28.01.2022			
Sampling Date	24.01.2022	Date of Analysis completed: 01.02.2022			
sample Receipt Date : 27.01.2022		Testing Period : 5 Days			
atitude : 22.161729 N		Direction from site : North - West			
Longitude	: 83.498074 E	Distance from site : 460 mt			

## Results of Analysis

S.N	Test Parameters	Unit	Permissible Limit	AAQ-3 Result	Test Method
1.	Particulate Matter size less than 10 µm ( PM <sub>10</sub> )	μg/m³	100	55.9	USEPA - 40 CFR Part 50 (Appendix O)
2.	Particulate Matter size less than 2.5 μm (PM <sub>2.5</sub> )	μg/m³	60	16.4	USEPA - 40 CFR Part 50 (Appendix O)
3.	Sulphur Dioxide (SO <sub>2</sub> )	μg/m³	80	14.1	IS 5182 (Part 2): 2001 RA 2017
4.	Nitrogen Dioxide (NO <sub>2</sub> )	μg/m³	80	20.5	IS 5182 (Part 6): 2006 RA 2017
5.	Carbon Monoxide (as CO)*	μg/m³	4000	478.0	IS 5182 (Part 10): 1999 RA 2014 (Clause 5.0)
6.	Lead ( Pb )*	μg/m³	1.0	< 0.01	IS 5182 (Part 22): 2004 RA 2014 (Clause 5.0)
7.	Arsenic (as As) *	μg/m³	6.0	< 0.001	IS 5182 (Part 22): 2004 RA 2014 (Clause 5.0)
8.	Nickel (as Ni) *	μg/m³	20.0	< 0.001	IS 5182 (Part 22): 2004 RA 2014 (Clause 5.0)
9.	Mercury (Hg)	μg/m³	-	< 0.001	IS 5182 (Part 22): 2004 RA 2014 (Clause 5.0)

Note: Ambient air quality is meeting the norms as per CPCB guidelines for above parameters

For M/s Nilawar Laboratories,

Renuka Yadav (Authorized Signatory)

- Authenticity of this report could be validated with office copy at Nilawar lab. Any correction invalidates this report.







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ISO 17025:2017 ISO 9001:2015 ISO 14001:2015 ISO 45001:2018 NABL ACCREDITED LAB Jan-2122

CIN No. U74140MH112009PTC196108

Report Date: 09.02.2022 Report No.: GE-Nilawar/EMS/2021-22/Jan/32 Name & Address of the Customer: M/s. Ambuja Cements Limited, Add: Gare Palma IV/8 Coal Mine, Vill: Khamaria, PO: Tamnar, Dist: Raigarh-496111 Sampling Location: Nr School, Rampura village (Buffer Sample Description Ambient Air Sample Sampling Ref Method : IS 5182 (Part 14) :2000 RA 2010 Zonc) Environment Condition: Sunny (during sampling) Sampled by GYAN Enviro Representative Sampling Date : 24.01.2022 Date of Analysis started : 28.01.2022 Sample Receipt Date : 27.01.2022 Date of Analysis completed: 01.02.2022 5 Days Testing Period Latitude 22.162807 N Direction from site East 400 mtr Longitude Distance from site 83.504231 E

-		Results	of Analysis		
S.N	Test Parameters	Unit	Permissible Limit	AAQ-4 Result	Test Method
I.	Particulate Matter size less than 10 µm ( PM <sub>10</sub> )	μg/m³	100	57.3	USEPA - 40 CFR Part 50 (Appendix O)
2.	Particulate Matter size less than 2.5 µm (PM <sub>2.5</sub> )	μg/m³	60	17.0	USEPA - 40 CFR Part 50 (Appendix O)
3.	Sulphur Dioxide (SO <sub>2</sub> )	μg/m³	80	13.9	IS 5182 (Part 2): 2001 RA 2017
4.	Nitrogen Dioxide (NO <sub>2</sub> )	μg/m³	80	18.5	IS 5182 (Part 6): 2006 RA 2017
5.	Carbon Monoxide (as CO)*	μg/m³	4000	480.0	IS 5182 (Part 10): 1999 RA 2014 (Clause 5.0)
6.	Lead ( Pb )*	μg/m³	1.0	<0.01	IS 5182 (Part 22): 2004 RA 2014 (Clause 5.0)
7.	Arsenic (as As) •	μg/m³	6.0	< 0.002	IS 5182 (Part 22): 2004 RA 2014 (Clause 5.0)
8.	Nickel (as Ni) *	μg/m³	20.0	< 0.001	IS 5182 (Part 22): 2004 RA 2014 (Clause 5.0)
9.	Mercury (Hg)	μg/m³	-	< 0.001	IS 5182 (Part 22): 2004 RA 2014 (Clause 5.0)

Note: Ambient air quality is meeting the norms as per CPCB guidelines for above parameters

For M/s Nilawar Laboratories,

Renuka Yaday

(Authorized Signatory)

### Note:

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ISO 17025:2017 150 9001:2015 ISO 14001:2015 ISO 45001:2018 NABL ACCREDITED LAB

Distance from site

CIN No.	U74140MH	112009PT	C196108

280 mtr

Report Date: 09.02.2022 Report No.: GE-Nilawar/EMS/2021-22/Jan/32 Name & Address of the Customer: M/s. Ambuja Cements Limited, Add: Gare Palma IV/8 Coal Mine, Vill: Khamaria, PO: Tamnar, Dist: Raigarh-496111 Sampling Location: At Durga House (Buffer Zone) Sample Description : Ambient Air Sample Sampling Ref Method : IS 5182 (Part 14) :2000 RA 2010 Environment Condition: Sunny (during sampling) : 28.01.2022 Sampled by : GYAN Enviro Representative Date of Analysis started Sampling Date : 24.01.2022 Date of Analysis completed: 01.02.2022 Sample Receipt Date : 27.01.2022 : 5 Days Testing Period South Direction from site Latitude 22.166381 N

83.497756 E

		Results	of Analysis		
S.N	Test Parameters	Unit	Permissible Limit	AAQ-5 Result	Test Method
1.	Particulate Matter size less than 10 µm ( PM <sub>10</sub> )	μg/m³	100	56.1	USEPA - 40 CFR Part 50 (Appendix O)
2.	Particulate Matter size less than 2.5 µm (PM <sub>2.5</sub> )	μg/m³	60	16.9	USEPA - 40 CFR Part 50 (Appendix O)
3.	Sulphur Dioxide (SO <sub>2</sub> )	μg/m³	80	13.2	IS 5182 (Part 2): 2001 RA 2017
4.	Nitrogen Dioxide (NO <sub>2</sub> )	μg/m³	80	20.8	IS 5182 (Part 6): 2006 RA 2017
5.	Carbon Monoxide (as CO)*	μg/m³	4000	455.0	IS 5182 (Part 10): 1999 RA 2014 (Clause 5.0)
6.	Lead ( Pb )*	μg/m³	1.0	< 0.01	IS 5182 (Part 22): 2004 RA 2014 (Clause 5.0)
7.	Arsenic (as As) *	μg/m³	6.0	< 0.001	IS 5182 (Part 22): 2004 RA 2014 (Clause 5.0)
8.	Nickel (as Ni) *	μg/m³	20.0	< 0.001	IS 5182 (Part 22): 2004 RA 2014 (Clause 5.0)
9.	Mercury (Hg)	μg/m³	-	< 0.001	IS 5182 (Part 22): 2004 RA 2014 (Clause 5.0)

Note: Ambient air quality is meeting the norms as per CPCB guidelines for above parameters

For M/s Nilawar Laboratories,

Renuka Yadav (Authorized Signatory)

Longitude

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CIN No. U74140MH112009PTC196108

Report No.: GE-Nilawar/EMS/2021-22/Feb/Air /48 Report Date: 07.03.2022 Name & Address of the Customer: M/s. Ambuja Cements Limited, Add: Gare Palma IV/8 Coal Mine, Vill: Khamaria PO: Tamnar, Dist: Raigarh-496111 Sample Description Sampling Location: At Site Office [Core Zone] : Ambient Air Sample Sampling Ref Method : IS 5182 (Part 14) :2000 RA 2010 Environment Condition: Sunny (during sampling) Sampled by : GYAN Enviro Representative : 25.02.2022 Date of Analysis started Sampling Date : 21.02.2022 Date of Analysis completed: 02.03.2022 Sample Receipt Date : 23.02.2022 : 5 Days Testing Period Within site Latitude: 22.169931 N Direction from site Nil Longitude: 83.494959E Distance from site

## Results of Analysis

S.N	Test Parameters	Unit	Permissible Limit	AAQ-I Result	Test Method
1.	Particulate Matter size less than 10 µm ( PM <sub>10</sub> )	μg/m³	100	59.1	USEPA - 40 CFR Part 50 (Appendix O)
2.	Particulate Matter size less than 2.5 µm (PM <sub>2.5</sub> )	μg/m³	60	18.8	USEPA - 40 CFR Part 50 (Appendix O)
3.	Sulphur Dioxide (SO <sub>2</sub> )	μg/m³	80	13.0	IS 5182 (Part 2): 2001 RA 2017
4.	Nitrogen Dioxide (NO <sub>2</sub> )	μg/m³	80	16.6	IS 5182 (Part 6): 2006 RA 2017
5.	Carbon Monoxide (as CO)*	μg/m³	4000	475.0	IS 5182 (Part 10): 1999 RA 2014 (Clause 5.0)
6.	Lead (Pb)*	μg/m³	1.0	BDL	IS 5182 (Part 22): 2004 RA 2014 (Clause 5.0)
7.	Arsenic (as As) *	μg/m³	6.0	<0.2	IS 5182 (Part 22): 2004 RA 2014 (Clause 5.0)
8.	Nickel (as Ni) *	μg/m³	20.0	BDL	IS 5182 (Part 22): 2004 RA 2014 (Clause 5.0)
9.	Mercury (Hg)	μg/m³	-	<0.01	IS 5182 (Part 22): 2004 RA 2014 (Clause 5.0)

- NAAQMS- National Ambient Air Quality Monitoring Standards (MoEF notification 2009)
- All values are in pg/m³
- BDL: Below Detectable Limit
- 24 Hrs sampling

For M/s Nilawae Laboratories,

Renata Yaday (Authorized Signatury)

### Note -

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- 2. The results listed referred to the tested samples and applicable parameters only.
- 3. Our liability is limited to the commercial value of the test/tests corried out.
- 4. Mil-no relexation; AG agreeable; NA- not applicable; BDL-Below detection limit

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<sup>➤</sup> Soil Testing for all types of Foundation Designs. ➤ Chemical Analysis of Soil & Water ➤ Mechanical Analysis of Soil & Flock
➤ Micro-biological Analysis of Soil & Water ➤ Testing of Construction Material ➤ Environment Consultants. ➤ Environment Monitoring & Analysis



CIN No. U74140MH112009PTC196108

Report No.: GE-Nilawa	r/EMS/2021-22/Feb/Air /49	Report Date: 07.03.202				
Name & Address of the	Customer: M/s. Ambuja Cements Lie Add: Gare Palma IV/8 Coa PO: Tamnar, Dist: Raigar	l Mine, Vill: Khamaria				
Sample Description	: Ambient Air Sample	Sampling Location: At Banjari Temple (Buffer Zone Environment Condition: Sunny (during sampling)				
Sampling Ref Method	: 1S 5182 (Part 14) :2000 RA 2010					
Sampled by	: GYAN Enviro Representative	Date of Analysis started : 25.02.2022				
Sampling Date	: 21.02.2022	Date of Analysis completed: 02.03.2022				
Sample Receipt Date	: 23.02.2022	Testing Period : 5 Days				
Latitude	: 22.178831 N	Direction from site : North				
ongitude : 83,508995		Distance from site : 310 Mtr				

## Results of Analysis

S.N	Test Parameters	Unit	Permissible Limit	AAQ-2 Result	Test Method
	Particulate Matter size less than 10 µm ( PM <sub>10</sub> )	μg/m³	100	57.8	USEPA - 40 CFR Part 50 (Appendix O)
	Particulate Matter size less than 2.5 µm (PM <sub>2.5</sub> )	μg/m³	60	16.7	USEPA - 40 CFR Part 50 (Appendix O)
3.	Sulphur Dioxide (SO <sub>2</sub> )	μg/m³	80	12.2	IS 5182 (Part 2): 2001 RA 2017
4.	Nitrogen Dioxide (NO <sub>2</sub> )	μg/m³	80	16.0	IS 5182 (Part 6): 2006 RA 2017
5.	Carbon Monoxide (as CO)*	$\mu g/m^3$	4000	480.0	IS 5182 (Part 10): 1999 RA 2014 (Clause 5.0
6.	Lead ( Pb )*	μg/m³	1.0	<0.01	IS 5182 (Part 22): 2004 RA 2014 (Clause 5.0)
7.	Arsenic (as As) *	μg/m³	6.0	<0.001	IS 5182 (Part 22): 2004 RA 2014 (Clause 5.0)
8.	Nickel (as Ni) *	μg/m³	20.0	<0.001	IS 5182 (Part 22): 2004 RA 2014 (Clause 5.0)
9.	Mercury (Hg)	µg/m³	-	<0.001	IS 5182 (Part 22): 2004 RA 2014 (Clause 5.0)

- NAAQMS- National Ambient Air Quality Monitoring Standards (MoEF notification 2009)
- All values are in µg/m³
- BDL: Below Detectable Limit
- 24 Hrs sampling

For M/s Nilawar Laboratories.

Renults Yaday (Authorized Signatury)

#### Note -

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- 2. The results listed referred to the tested samples and applicable parameters only.
- 3. Our Bability is limited to the commercial value of the test/tests corried out.
- 4. NR-no relaxation; AG-agreeable; MA-not applicable; BCX-Below detection limit

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CIN No. U74140MH112009PTC196108

Report Date: 07.03.2022 Report No.: GE-Nilawar/EMS/2021-22/Feb/Air /50 Name & Address of the Customer: M/s. Ambuja Cements Limited, Add: Gare Palma IV/8 Coal Mine, Vill: Khamaria PO: Tamnar, Dist: Raigarh-496111 Sampling Location: At Khamaria village (Buffer Zone) Sample Description : Ambient Air Sample : IS 5182 (Part 14) :2000 RA 2010 Sampling Ref Method Environment Condition: Sunny (during sampling) Sampled by : GYAN Enviro Representative : 25.02.2022 Date of Analysis started Sampling Date : 21.02.2022 Date of Analysis completed: 02.03.2022 Sample Receipt Date : 23.02.2022 : 5 Days Testing Period North - West Latitude 22.161729 N Direction from site 460 mt Distance from site Longitude 83,498074 E

## Results of Analysis

S.N	Test Parameters	Unit	Permissible Limit	AAQ-3 Result	Test Method
L.	Particulate Matter size less than 10 μm ( PM <sub>10</sub> )	μg/m³	100	57.1	USEPA - 40 CFR Part 50 (Appendix O)
,	Particulate Matter size less than 2.5 µm (PM <sub>2.5</sub> )	μg/m³	60	17.3	USEPA - 40 CFR Part 50 (Appendix O)
3.	Sulphur Dioxide (SO <sub>2</sub> )	μg/m³	80	12.9	IS 5182 (Part 2): 2001 RA 2017
4.	Nitrogen Dioxide (NO <sub>2</sub> )	μg/m³	80	17.8	IS 5182 (Part 6): 2006 RA 2017
5.	Carbon Monoxide (as CO)*	μg/m³	4000	455.0	IS 5182 (Part 10): 1999 RA 2014 (Clause 5.0)
6.	Lead ( Pb )*	μg/m³	1.0	<0.01	IS 5182 (Part 22): 2004 RA 2014 (Clause 5.0)
7.	Arsenic (as As) *	μg/m³	6.0	<0.001	IS 5182 (Part 22): 2004 RA 2014 (Clause 5.0)
8.	Nickel (as Ni) *	μg/m³	20.0	< 0.001	IS 5182 (Part 22): 2004 RA 2014 (Clause 5.0)
9.	Mercury (Hg)	μg/m³	-	<0.001	IS 5182 (Part 22): 2004 RA 2014 (Clause 5.0)

- NAAQMS- National Ambient Air Quality Monitoring Standards (MoEF notification 2009)
- All values are in µg/m³
- BDL: Below Detectable Limit
- 24 Hrs sampling

For M/s Nilawar Laboratories.



#### Note -

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- 3. Our liability is limited to the commercial value of the test/tests carried out.
- 4. NR-no relaxation; AG-agreeable; NA- not applicable; BOX-Below detection limit

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Report Date: 07.03.2022



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CIN No. U74140MH112009PTC196108

Report No.: GE-Nilawar/EMS/2021-22/Feb/Air /51

Name & Address of the Customer: M/s. Ambuja Cements Limited,
Add: Gare Palma IV/8 Coal Mine, Vill: Khamaria

PO: Tamnar, Dist: Raigarh-496111

Sample Description : Ambient Air Sample

Sampling Ref Method : IS 5182 (Part 14):2000 RA 2010

Sampled by : GYAN Enviro Representative Sampling Date : 21.02.2022

Sampling Date : 21.02.2022 Sample Receipt Date : 23.02.2022

Latitude : 22.162807 N Longitude : 83.504231 E Sampling Location: Nr School, Rampura village (Buffer

Environment Condition: Sunny (during sampling)

Date of Analysis started : 25.02.2022 Date of Analysis completed: 02.03.2022

Testing Period : 5 Days

Direction from site : East

Distance from site : 400 mtr

## Results of Analysis

S.N	Test Parameters	Unit	Permissible Limit	AAQ-4 Result	Test Method
1.	Particulate Matter size less than 10 µm ( PM <sub>10</sub> )	μg/m³	100	55.6	USEPA - 40 CFR Part 50 (Appendix O)
	Particulate Matter size less than 2.5 µm (PM23)	μg/m³	60	17.2	USEPA - 40 CFR Part 50 (Appendix O)
3.	Sulphur Dioxide (SO <sub>2</sub> )	μg/m³	80	12.1	IS 5182 (Part 2): 2001 RA 2017
4.	Nitrogen Dioxide (NO <sub>2</sub> )	μg/m³	80	15.8	IS 5182 (Part 6): 2006 RA 2017
5.	Carbon Monoxide (as CO)*	μg/m³	4000	492.0	IS 5182 (Part 10): 1999 RA 2014 (Clause 5.0)
6.	Lead ( Pb )*	μg/m³	1.0	< 0.01	IS 5182 (Part 22): 2004 RA 2014 (Clause 5.0)
7.	Arsenic (as As) *	μg/m³	6.0	<0.002	IS 5182 (Part 22): 2004 RA 2014 (Clause 5.0)
8.	Nickel (as Ni) *	μg/m³	20.0	<0.001	IS 5182 (Part 22): 2004 RA 2014 (Clause 5.0)
9.	Mercury (Hg)	μg/m³	-	<0.001	IS 5182 (Part 22): 2004 RA 2014 (Clause 5.0)

- NAAQMS- National Ambient Air Quality Monitoring Standards (MoEF notification 2009)
- All values are in µg/m³
- BDL: Below Detectable Limit
- 24 Hrs sampling

For M/s Nilawat Laboratories,

Renuta Yaday

#### Note -

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- 2. The results listed referred to the tested samples and applicable parameters only.
- 3. Our liability is limited to the commercial value of the test/tests corried out.
- 4. MR-no relaxation; AG-agreeable; MA- not applicable; BDL-Below detection limit

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ISO 17025:2017 ISO 9001:2015 ISO 14001:2015 ISO 45001:2018

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CIN No. U74140MH112009PTC196108

Report No.: GE-Nilawa	r/EMS/2021-22/Feb/Air /52	Report Date: 07.03.202					
Name & Address of the	Customer: M/s. Ambuja Cements Lin Add: Gare Palma IV/8 Coa PO: Tamnar, Dist: Raigan	l Mine, Vill: Khamaria					
Sample Description	: Ambient Air Sample	Sampling Location: At Durga House (Buffer Zone)					
Sampling Ref Method	: IS 5182 (Part 14) :2000 RA 2010	Environment Condition: Sunny (during sampling)					
Sampled by	: GYAN Enviro Representative	Date of Analysis started : 25.02.2022					
Sampling Date	: 21.02.2022	Date of Analysis completed: 02.03.2022					
Sample Receipt Date	: 23.02.2022	Testing Period : 5 Days					
Latitude :	22.166381 N	Direction from site : South					
Longitude	: 83.497756E	Distance from site : 280 mtr					

## Results of Analysis

S.N	Test Parameters	Unit	Permissible Limit	AAQ-5 Result	Test Method
L.	Particulate Matter size less than 10 µm ( PM <sub>10</sub> )	μg/m³	100	58.4	USEPA - 40 CFR Part 50 (Appendix O)
7.0	Particulate Matter size less than 2.5 µm (PM <sub>2.5</sub> )	μg/m³	60	17.7	USEPA - 40 CFR Part 50 (Appendix O)
3.	Sulphur Dioxide (SO <sub>2</sub> )	μg/m³	80	12.6	IS 5182 (Part 2): 2001 RA 2017
4.	Nitrogen Dioxide (NO <sub>2</sub> )	μg/m³	80	15.5	IS 5182 (Part 6): 2006 RA 2017
5.	Carbon Monoxide (as CO)*	μg/m³	4000	460.0	IS 5182 (Part 10): 1999 RA 2014 (Clause 5.0
6.	Lead (Pb)*	μg/m³	1.0	<0.01	IS 5182 (Part 22): 2004 RA 2014 (Clause 5.0)
7.	Arsenic (as As) *	μg/m³	6.0	<0.001	IS 5182 (Part 22): 2004 RA 2014 (Clause 5.0)
8.	Nickel (as Ni) *	μg/m³	20.0	<0.001	IS 5182 (Part 22): 2004 RA 2014 (Clause 5.0)
9.	Mercury (Hg)	μg/m³	-	<0.001	IS 5182 (Part 22): 2004 RA 2014 (Clause 5.0)

- NAAQMS- National Ambient Air Quality Monitoring Standards (MoEF notification 2009)
- All values are in µg/m3
- **BDL:** Below Detectable Limit
- 24 Hrs sampling

For M/s Nilawar Laboratories,

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- The results listed referred to the tested samples and applicable parameters only.
- 3. Our liability is limited to the commercial value of the test/tests carried out.
- 4. NR-no relexation; AG-agreeable; NA- not applicable; DCL-Below detection limit

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## CIN No. U74140MH112009PTC196108

Report No.: GE-Nilawar/EMS/2021-22/Mar/104 Report Date: 08/04/2022 Name & Address of the Customer: M/s. Ambuja Cements Limited, Add: Gare Palma IV/8 Coal Mine, Vill: Khamaria PO: Tamnar, Dist: Raigarh-496111 Sample Description : Ambient Air Sample Sampling Location: At Main Gate [Core Zone] Sampling Ref Method : IS 5182 (Part 14) :2000 RA 2010 Environment Condition: Sunny (during sampling) Sampled by Date of Analysis started :16.03.2022

:GYAN Enviro Representative Sampling Date :11.03.2022 Sample Receipt Date :14.03.2022

Latitude: 22.169931N

Longitude: 83.494959E

Testing Period :5 Days Direction from site

Date of Analysis completed: 21.03.2022

Within site

Distance from site Nil

## Results of Analysis

S.N	Test Parameters	Unit	Permissible Limit	AAQ-1 Result	Test Method
	Particulate Matter size less than 10 µm ( PM <sub>10</sub> )	μg/m³	100	69.5	USEPA - 40 CFR Part 50(Appendix O)
	Particulate Matter size less than 2.5 µm (PM <sub>2.5</sub> )	μg/m³	60	34.5	USEPA - 40 CFR Part 50(Appendix O)
3.	Sulphur Dioxide (SO <sub>2</sub> )	μg/m³	80	24.0	IS 5182 (Part 2): 2001RA 2017
4.	Nitrogen Dioxide (NO <sub>2</sub> )	μg/m³	80	20.4	IS 5182 (Part 6): 2006RA 2017
5.	Carbon Monoxide (as CO)*	μg/m³	4000	560.0	IS 5182 (Part 10): 1999 RA 2014(Clause 5.0)
6.	Lead ( Pb )*	μg/m³	1.0	BDL	IS 5182 (Part 22): 2004 RA 2014(Clause 5.0)
7.	Arsenic (as As) *	μg/m³	6.0	<0.2	IS 5182 (Part 22): 2004 RA 2014(Clause 5.0)
8.	Nickel (as Ni) *	μg/m³	20.0	BDL	IS 5182 (Part 22): 2004 RA 2014(Clause 5.0)
9.	Mercury (Hg)	μg/m³	-	<0.01	IS 5182 (Part 22): 2004 RA 2014(Clause 5.0)

- NAAQMS- National Ambient Air Quality Monitoring Standards (MoEF notification 2009)
- All values are in mg/m3
- **BDL: Below Detectable Limit**
- 24 Hrs sampling

For M/s Nilawar Laboratories,



## Note -

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- 4. NR-no relaxation; AG-agreeable; NA- not applicable; BDL-Below detection limit

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## CIN No. U74140MH112009PTC196108

Report Date: 08/04/2022 Report No.: GE-Nilawar/EMS/2021-22/Mar/105 Name & Address of the Customer: M/s. Ambuja Cements Limited, Add: Gare Palma IV/8 Coal Mine, Vill: Khamaria PO: Tannar, Dist: Raigarh-496111 Sampling Location: At Banjari Temple (Buffer Zone) Sample Description : Ambient Air Sample : IS 5182 (Part 14) :2000 RA 2010 Environment Condition: Sunny (during sampling) Sampling Ref Method :GYAN Enviro Representative :16.03.2022 Sampled by Date of Analysis started Date of Analysis completed: 21.03.2022 Sampling Date :11.03.2022 Sample Receipt Date: 14.03.2022 :5 Days Testing Period North Direction from site 22.178831N 310 Mtr Distance from site 83.508995 Longitude

## Results of Analysis

S.N	Test Parameters	Unit	Permissible Limit	AAQ-2 Result	Test Method
1	Particulate Matter size less than 10 sum ( PM <sub>10</sub> )	μg/m³	100	60.3	USEPA - 40 CFR Part 50(Appendix O)
200	Particulate Matter size less than 2.5 µm (PM <sub>2.5</sub> )	μg/m³	60	27.4	USEPA - 40 CFR Part 50(Appendix O)
3.	Sulphur Dioxide (SO <sub>2</sub> )	μg/m³	80	14.8	IS 5182 (Part 2): 2001RA 2017
4.	Nitrogen Dioxide (NO <sub>2</sub> )	μg/m³	80	19.0	IS 5182 (Part 6): 2006RA 2017
5.	Carbon Monoxide (as CO)*	μg/m³	4000	504.0	IS 5182 (Part 10): 1999 RA 2014(Clause 5.0)
6.	Lead (Pb)*	μg/m³	1.0	< 0.01	IS 5182 (Part 22): 2004 RA 2014(Clause 5.0)
7.	Arsenic (as As) •	μg/m³	6.0	<0.001	IS 5182 (Part 22): 2004 RA 2014(Clause 5.0)
8.	Nickel (as Ni) *	μg/m³	20.0	<0.001	IS 5182 (Part 22): 2004 RA 2014(Clause 5.0)
9.	Mercury (Hg)	μg/m³	-	< 0.001	IS 5182 (Part 22): 2004 RA 2014(Clause 5.0)

NAAQMS- National Ambient Air Quality Monitoring Standards (MoEF notification 2009)

All values are in µg/m³

BDL: Below Detectable Limit

24 Hrs sampling

For M/s Nilawar Laboratories,

Renuta Yaday (Authorized Signatury)

Note -

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- 4. NR-no relaxation; AG-agreeable; NA- not applicable; BDL Below detection limit

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Report Date: 08/04/2022



ISO 17025:2017 150 9001:2015 ISO 14001:2015 ISO 45001:2018

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## CIN No. U74140MH112009PTC196108

Report No.: GE-NRawar/EMS/2021-22/Mar/106

Name & Address of the Customer: M/s. Ambuja Cements Limited, Add: Gare Palma IV/8 Coal Mine, Vill: Khamaria

PO: Tamnar, Dist: Raigarh-496111

Sample Description

: Ambient Air Sample

Sampling Ref Method

: IS 5182 (Part 14) :2000 RA 2010 :GYAN Enviro Representative

Sampled by Sampling Date :11.03.2022 Sample Receipt Date: 14.03.2022

Latitude Longitude

22.161729N 83.498074E Sampling Location: At Khamaria village (Buffer Zone)

Environment Condition: Sunny (during sampling) :16.03.2022 Date of Analysis started

Date of Analysis completed: 21.03.2022 :5 Days Days Testing Period

North -West Direction from site + 460 mt Distance from site

## Results of Analysis

S.N	Test Parameters	Unit	Permissible Limit	AAQ-3 Result	Test Method
1.	Particulate Matter size less than 10 µm ( PM <sub>10</sub> )	μg/m³	100	66.7	USEPA - 40 CFR Part 50(Appendix O)
2.	Particulate Matter size less than 2.5 µm (PM <sub>2.5</sub> )	μg/m³	60	30.5	USEPA - 40 CFR Part 50(Appendix O)
3.	Sulphur Dioxide (SO <sub>2</sub> )	μg/m³	80	16.7	IS 5182 (Part 2): 2001RA 2017
4.	Nitrogen Dioxide (NO <sub>2</sub> )	μg/m³	80	19.4	IS 5182 (Part 6): 2006RA 2017
5.	Carbon Monoxide (as CO)*	μg/m³	4000	515.0	IS 5182 (Part 10): 1999 RA 2014(Clause 5.0)
6.	Lead ( Pb )*	μg/m³	1.0	<0.01	IS 5182 (Part 22): 2004 RA 2014(Clause 5.0)
7.	Arsenic (as As) *	μg/m³	6.0	<0.001	IS 5182 (Part 22): 2004 RA 2014(Clause 5.0)
8.	Nickel (as Ni) *	μg/m³	20.0	<0.001	IS 5182 (Part 22): 2004 RA 2014(Clause 5.0)
9.	Mercury (Hg)	μg/m³	-	< 0.001	IS 5182 (Part 22): 2004 RA 2014(Clause 5.0)

- NAAQMS- National Ambient Air Quality Monitoring Standards (MoEF notification 2009)
- All values are in µg/m3
- **BDL: Below Detectable Limit**
- 24 Hrs sampling

For M/s Nilawar Laboratories,

MAGEUR Renuka Yaday (Authorized Signatory)

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- 3. Our liability is limited to the commercial value of the test/tests carried out.
- 4. NR-no relaxation; AG-agreeable; MA-not applicable; BDL-Below detection limit

Off.: First Floor, Pratibha Sankuf, Beside Alankar Cinema, Dharampeth, Nagpur - 10. Ph.: +91-712-2542261, 2542291, E-mail: nilawarlebs@gmail.com Laboratory: At Km 16.5, Nitawar Motors Complex, Armavati Road, Waddhamna, Nagpur - 440 023, Mob.: +91-9922409055, 9552550955

Report Date: 08/04/2022



ISO 17025:2017 150 9001:2015 ISO 14001:2015 ISO 45001:2018 NABL ACCREDITED LAB

CIN No. U74140MH112009PTC196108

Report No.: GE-Nilawar/EMS/2021-22/Mar/107

Name & Address of the Customer: M/s. Ambuja Cements Limited,

Add: Gare Palma IV/8 Coal Mine, Vill: Khamaria

PO: Tamnar, Dist: Raigarh-496111

Sample Description : Ambient Air Sample

: IS 5182 (Part 14) :2000 RA 2010 Sampling Ref Method

Sampled by :GYAN Enviro Representative Sampling Date :12.03.2022

Sample Receipt Date: 14.03.2022

Latitude

Longitude

Sampling Location: Nr School, Rampura village (Buffer Zone)

Environment Condition: Sunny (during sampling)

Date of Analysis started :16.03.2022 Date of Analysis completed: 21.03.2022

Testing Period :5 Days Direction from site

East 22.162807N 400 mtr Distance from site 83.504231E

## Results of Analysis

S.N	Test Parameters	Unit	Permissible Limit	AAQ-4 Result	Test Method
1.	Particulate Matter size less than 10 µm ( PM <sub>10</sub> )	μg/m³	100	62.6	USEPA - 40 CFR Part 50(Appendix O)
7	Particulate Matter size less than 2.5 µm (PM <sub>2.5</sub> )	μg/m³	60	30.8	USEPA - 40 CFR Part 50(Appendix O)
3.	Sulphur Dioxide (SO <sub>2</sub> )	μg/m³	80	19.9	IS 5182 (Part 2): 2001RA 2017
4.	Nitrogen Dioxide (NO <sub>2</sub> )	μg/m³	80	23.4	IS 5182 (Part 6): 2006RA 2017
5.	Carbon Monoxide (as CO)*	μg/m³	4000	603.0	IS 5182 (Part 10): 1999 RA 2014(Clause 5.0)
6.	Lead ( Pb )*	μg/m³	1.0	< 0.01	IS 5182 (Part 22): 2004 RA 2014(Clause 5.0)
7.	Arsenic (as As) *	μg/m³	6.0	<0.002	IS 5182 (Part 22): 2004 RA 2014(Clause 5.0)
8.	Nickel (as Ni) *	μg/m³	20.0	<0.001	IS 5182 (Part 22): 2004 RA 2014(Clause 5.0)
9.	Mercury (Hg)	μg/m³	-	< 0.001	IS 5182 (Part 22): 2004 RA 2014(Clause 5.0)

- NAAOMS- National Ambient Air Quality Monitoring Standards (MoEF notification 2009)
- All values are in µg/m3
- **BDL: Below Detectable Limit**
- 24 Hrs sampling

For M/s Nilawar Laboratories,



#### Note -

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Report Date: 08/04/2022



ISO 17025:2017 ISO 9001:2015 ISO 14001:2015 ISO 45001:2018

NABL ACCREDITED LAB

## CIN No. U74140MH112009PTC196108

Report No.: GE-Nilawar/EMS/2021-22/Mar/108

Name & Address of the Customer: M/s. Ambuja Cements Limited,

Add: Gare Palma IV/8 Coal Mine, Vill: Khamaria

PO: Tamnar, Dist: Raigarh-496111

Sample Description : Am

: Ambient Air Sample

Sampling Ref Method : IS 51

: IS 5182 (Part 14) :2000 RA 2010 :GYAN Enviro Representative

Sampled by :GY/ Sampling Date :12.03.2022

Longitude

2.03.2022

Sample Receipt Date: 14.03.2022

Latitude :

22.166381N 83.497756E Sampling Location: At Durga House (Buffer Zone)

Environment Condition: Sunny (during sampling)
Date of Analysis started :16.03.2022

Date of Analysis completed: 21.03.2022
Testing Period :5 Days

Testing Period :5 Days

Direction from site : Se

Distance from site

South 280 mtr

## Results of Analysis

S.N	Test Parameters	Unit	Permissible Limit	AAQ-5 Result	Test Method
	Particulate Matter size less than 10 µm ( PM <sub>10</sub> )	μg/m³	100	59.1	USEPA - 40 CFR Part 50(Appendix O)
· Z	Particulate Matter size less than 2.5 µm (PM <sub>2.5</sub> )	μg/m³	60	16.5	USEPA - 40 CFR Part 50(Appendix O)
3.	Sulphur Dioxide (SO <sub>2</sub> )	μg/m³	80	17.8	IS 5182 (Part 2): 2001RA 2017
4.	Nitrogen Dioxide (NO <sub>2</sub> )	μg/m³	80	17.2	IS 5182 (Part 6): 2006RA 2017
5.	Carbon Monoxide (as CO)*	μg/m³	4000	548.0	IS 5182 (Part 10): 1999 RA 2014(Clause 5.0)
6.	Lead (Pb)*	μg/m³	1.0	< 0.01	IS 5182 (Part 22): 2004 RA 2014(Clause 5.0)
7.	Arsenic (as As) *	μg/m³	6.0	<0.001	IS 5182 (Part 22): 2004 RA 2014(Clause 5.0)
8.	Nickel (as Ni) *	μg/m³	20.0	< 0.001	IS 5182 (Part 22): 2004 RA 2014(Clause 5.0)
9.	Mercury (Hg)	μg/m³	-	< 0.001	IS 5182 (Part 22): 2004 RA 2014(Clause 5.0)

- NAAQMS- National Ambient Air Quality Monitoring Standards (MoEF notification 2009)
- All values are in µg/m³
- BDL: Below Detectable Limit
- 24 Hrs sampling

For M/s Nilawat Laboratories,

Renuks Vaday

Note -

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MGEF RECOGNIZED ENVIRONMENTAL LABORATORY VALIDITY UPTO 08 02 2022



Ref. No:MEPL/Lab/Cons/EMS/ACL-Garc/2020-21/Apr-21/AN-44to 47

## ENVIRONMENT MONITORING REPORT

Name of Industry

Ambuja Cements Limited

Address

Gare Palma IV/8 Coal Mine, Vill: Khamariya

PO: Tamnar, Dist: Raigarh-496111

Date of Sampling

14.04.2021

Date of Report

16.04.2021

Type of Work

Adequate Measures (Noise Levels) Monitoring

Details	Monitoring Locations					
Details	NA-1	NA-2	NA-3	NA-4		
Standard Limit (CPCB)	75.0 (day hours)					
Observed Value (day time)	57.5	61.3	64.7	53.6		
Standard Limit (CPCB)	70.0 (night hours)					
Observed Value (night time)	46.3 51.2 54.4 45					

<sup>\*</sup>All values are in dB(A)

#### Details:

NA-1: Near Main Gate (Core Zone)

NA-2: At Site Office (Core Zone)

NA-3: Near Weigh Bridge(Core Zone)

NA-4: Near Parking(Core Zone)

For SAS Entogrape Ltd,

Authorized Sixontory

Note:

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Head Office: 20, IT Park, Parsodi, Nagpur - 440 022, Maharashtra (India) so 14001: 2015 C No. 49121000010XEs 0HSAS 18001: 2007 C No. 49121000110XEs CHSAS 18001: 2007 C No. 49121000110XEs



April-SMS

Ref. No: MEPL/Lab/Cons/EMS/ACL-Garc/2020-21/Apr-21/AN-48to 51

## ENVIRONMENT MONITORING REPORT

Name of Industry

Ambuja Cements Limited

Address

Gare Palma IV/8 Coal Mine, Vill: Khamariya

PO: Tamnar, Dist: Raigarh-496111

Date of Sampling

14.04.2021

Date of Report

16.04.2021

Type of Work

Adequate Measures (Noise Levels) Monitoring

Details	Monitoring Locations					
Details	NA-5	NA-6	NA-7	NA-8		
Standard Limit (CPCB)	75.0 (day hours)					
Observed Value (day time)	54.5	53.2	54.3	54.8		
Standard Limit (CPCB)	70.0 (night hours)					
Observed Value (night time)	44.8	44.6	44.8	39.4		

<sup>\*</sup>All values are in dB(A)

## Details:

NA-5: Khamariya village(Buffer Zone)

NA-6: Nr School, Rampura village(Buffer Zone)

NA-7: At Durga House(Buffer Zone)

NA-8: At Banjari Temple(Buffer Zone)



Note:

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(NAGPUR UNIT)



CIN No. U74140MH112009PTC196108

Report No.: GE-Nilawa	r/EMS/2021/May/28	Report Date: 21.05.2021
Name & Address of the	Customer: M/s. Ambuja Cements Limited, Add: Gare Palma IV/8 Coal Mine, PO: Tamnar, Dist: Raigarh-4961	
Sample Description	: Adequate Measures (Noise Levels) Sampling	Sampling Location: N5-N8
Ref Method Sampled by	: User's Manual SLM 100 : GYAN Enviro Representative	Environment Condition: Sunny (during sampling)
Sampling Date Sample Receipt Date	: 14.05.2021 : NA	Date of Analysis started : Date of Analysis completed: Testing Period

## Results of Measurement

Details	Monitoring Locations					
Details	NA-1	NA-2	NA-3	NA-4		
Standard Limit (CPCB)	75.0 (day hours)					
Observed Value (Day time)	55.1	59.7	64.3	56.7		
Standard Limit (CPCB)		70.0 (night hours)				
Observed Value (night time)	42.0	44.1	49.8	44.6		

<sup>\*</sup>All values are in dB(A)

## Location Details:

- NA-1: Near Main Gate (Core Zone)
- NA-2: At Site Office (Core Zone)
- NA-3: Near Weigh Bridge (Core Zone)
- NA-4: Near Parking (Core Zone)

## For M/s Nilawar Laboratories,



## RenukaYadav

(Authorized Signatory)

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- The results listed referred to the tested samples send by customer and applicable parameters only
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CIN No. U74140MH112009PTC196108

Report No.: GE-Nilaw	ar/EMS/2021/May/28	Report Date: 21.05.2021
Name & Address of th	e Customer: M/s. Ambuja Cements Limited, Add: Gare Palma IV/8 Coal Mine, PO: Tamnar, Dist: Raigarh-4961	
Sample Description	: Adequate Measures (Noise Levels) Sampling	Sampling Location: N1-N4
Ref Method Sampled by Sampling Date	: User's Manual SLM 100 : GYAN Enviro Representative	Environment Condition: Sunny (during sampling)
Sample Receipt Date	: 14.05.2021 : NA	Date of Analysis started : Date of Analysis completed:

Testing Period

## Results of Measurement

Details	Monitoring Locations					
Details	NA-5	NA-6	NA-7	NA-8		
Standard Limit (CPCB)	75.0 (day hours)					
Observed Value (Day time)	55.2	53.6	55.6	58.2		
Standard Limit (CPCB)	70.0 (night hours)					
Observed Value (night time)	40.4	41.1	39.8	41.3		

<sup>\*</sup>All values are in dB(A)

#### Location Details:

- NA-5: Khamaria village (Buffer Zone)
- NA-6: Nr School, Rampura village (Buffer Zone)
- NA-7: At Durga House (Buffer Zone)
- NA-8: At Banjari Temple (Buffer Zone

## For M/s Nilawar Laboratories,



## RenukaYadav (Authorized Signatory)

#### Note -

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CIN No. U74140MH112009PTC196108

Report No.: GE-Nilaw	ar/EMS/2021/June /16	Report Date: 03.07.2021
Name & Address of th	e Customer: M/s. Ambuja Cements Limited, Add: Gare Palma IV/8 Coal Mine, PO: Tamnar, Dist: Raigarh-4961	
Sample Description	: Adequate Measures (Noise Levels) Sampling	Sampling Location: N1-N4
Ref Method Sampled by Sampling Date Sample Receipt Date	: User's Manual SLM 100 : GYAN Enviro Representative : 29.06.2021 : NA	Environment Condition: Sunny (during sampling)  Date of Analysis started : Date of Analysis completed: Testing Period :

## Results of Measurement

Datella	Monitoring Locations					
Details	NA-1	NA-2	NA-3	NA-4		
Standard Limit (CPCB)	75.0 (day hours)					
Observed Value (Day time)	57.8	58.0	61.9	57.8		
Standard Limit (CPCB)	70.0 (night hours)					
Observed Value (night time)	41.4	43.2	47.6	40.7		

<sup>\*</sup>All values are in dB(A)

## Location Details:

- NA-1: Near Main Gate (Core Zone)
- NA-2: At Site Office (Core Zone)
- NA-3: Near Weigh Bridge (Core Zone)
- NA-4: Near Parking (Core Zone)

## For M/s Nilawar Laboratories,



## RenukaYaday

(Authorized Signatory)

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CIN No. U74140MH112009PTC196108

Report No.: GE-Nilaw	ar/EMS/2021/June /16	Report Date: 03.07.2021
Name & Address of th	c Customer: M/s. Ambuja Cements Limited, Add: Gare Palma IV/8 Coal Mine, PO: Tamnar, Dist: Raigarh-4961	
Sample Description	: Adequate Measures (Noise Levels) Sampling	Sampling Location: N5-N8
Ref Method Sampled by	: User's Manual SLM 100 : GYAN Enviro Representative	Environment Condition: Sunny (during sampling)
Sampling Date Sample Receipt Date	: 29.06.2021 : NA	Date of Analysis started : Date of Analysis completed: Testing Period :

## Results of Measurement

	Monitoring Locations						
Details	NA-5	NA-6	NA-7	NA-8			
Standard Limit (CPCB)	75.0 (day hours)						
Observed Value (Day time)	55.2	53.6	55.6	58.2			
Standard Limit (CPCB)	70.0 (night hours)						
Observed Value (night time)	40.4	40.4 41.1 39.8 41.3					

<sup>\*</sup>All values are in dB(A)

#### Location Details:

- NA-5: Khamaria village (Buffer Zone)
- NA-6: Nr School, Rampura village (Buffer Zone)
- o NA-7: At Durga House (Buffer Zone)
- NA-8: At Banjari Temple (Buffer Zone

For M/s Nilawar Laboratories,

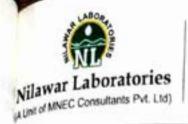


## RenukaYadav

(Authorized Signatory)

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CIN No. U74140MH112009PTC196108

Report No.: GE-Nilawa	r/EMS/2021/July/28	Report Date: 09.08.2021
Name & Address of the	Customer: M/s. Ambuja Cements Lin Add: Gare Palma IV/8 Coal PO: Tamnar, Dist: Raigar	Mine, Vill: Khamaria,
Sample Description	: Adequate Measures (Noise Levels)	Sampling Location: N1-N4
Sampling Ref Method Sampled by	: IS 5182 (Part 14) :2000 RA 2010 : GYAN Enviro Representative	Environment Condition: Sunny (during sampling)
Sampling Date Sample Receipt Date	: 31.07.2021 : NA	Date of Analysis started : Date of Analysis completed: Testing Period :

## Results of Measurement

Date II.	Monitoring Locations				
Details	NA-1	NA-2	NA-3	NA-4	
Standard Limit (CPCB)	75.0 (day hours)				
Observed Value (Day time)	55.2	59.4	63.1	53.3	
Standard Limit (CPCB)	70.0 (night hours)				
Observed Value (night time)	40.7 44.1 46.9 41.4				

## \*All values are in dB(A)

## **Location Details:**

- NA-1: Near Main Gate (Core Zone)
- NA-2: At Site Office (Core Zone)
- NA-3: Near Weigh Bridge (Core Zone)
- NA-4: Near Parking (Core Zone)

## For M/s Nilawar Laboratories,



## RenukaYaday (Authorized Signatory)

## Note -

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CIN No. U74140MH112009PTC196108

Report No.: GE-Nilawa	r/EMS/2021/July/28	Report Date: 09.08.202
Name & Address of the	e Customer: <b>M/s. Ambuja Cements Lir</b> Add: Gare Palma IV/8 Coa PO: Tamnar, Dist: Raigar	nited,   Mine, Vill: Khamaria,
Sample Description	: Adequate Measures (Noise Levels)	Sampling Location: N5-N8
Sampling Ref Method Sampled by	: IS 5182 (Part 14) :2000 RA 2010 : GYAN Enviro Representative : 30.07.2021	Environment Condition: Sunny (during sampling)
Sampling Date Sample Receipt Date	: NA	Date of Analysis started : Date of Analysis completed: Testing Period :

## Results of Measurement

Details	Monitoring Locations						
	NA-5	NA-6	NA-7	NA-8			
Standard Limit (CPCB)	75.0 (day hours)						
Observed Value (Day time)	53.8	54.2	57.2	59.5			
Standard Limit (CPCB)	70.0 (night hours)						
Observed Value (night time)	41.3	41.3 42,1 44.0					

## \*All values are in dB(A)

## Location Details:

- NA-5: Khamaria village (Buffer Zone)
- NA-6: Nr School, Rampura village (Buffer Zone)
- NA-7: At Durga House (Buffer Zone)
- NA-8: At Banjari Temple (Buffer Zone

## For M/s Nilawar Laboratories,



## Renuka Yadav

## (Authorized Signatory)

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- 3. Our liability is limited to the commercial value of the test/tests carried out.



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NABL ACCREDITED LAB

## CIN No. U74140MH112009PTC196108

Report No.: GE-Nilawar/EMS/2021/Aug/36

Report Date: 11.09.2021

Name & Address of the Customer: M/s. Ambuja Cements Limited,

Add: Gare Palma IV/8 Coal Mine, Vill: Khamaria,

PO: Tamnar, Dist: Raigarh-496111

Sample Description : Adequate Measures (Noise Levels)

Sampling Ref Method : IS 5182 (Part 14) :2000 RA 2010 Sampled by :GYAN Enviro Representative

Sampling Date :31.08.2021 Sample Receipt Date : NA Sampling Location: N1-N4

Environment Condition: Sunny (during

sampling)

Date of Analysis started :--Date of Analysis completed: --Testing Period :--

## Results of Measurement

Dataille	Monitoring Locations				
Details	NA-1	NA-2	NA-3	NA-4	
Standard Limit (CPCB)	75.0 (day hours)				
Observed Value (Day time)	56.0	58.1	65.0	56.7	
Standard Limit (CPCB)	70.0 (night hours)				
Observed Value (night time)	41.2 43.7 47.1 41.9				

<sup>\*</sup>All values are in dB(A)

#### Location Details:

- NA-1: Near Main Gate (Core Zone)
- NA-2: At Site Office (Core Zone)
- NA-3: Near Weigh Bridge(Core Zone)
- NA-4: Near Parking(Core Zone)

For M/s Nilawan Laboratories,



#### Note -

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- 4. NR-no relaxation; AG-agreeable; NA- not applicable; BDL-Below detection limit

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Report Date: 11.09.2021



ISO 17025:2017 ISO 9001:2015 ISO 14001:2015 ISO 45001:2018 NABL ACCREDITED LAB

## CIN No. U74140MH112009PTC196108

Report No.: GE-Nilawar/EMS/2021/Aug/36

Name & Address of the Customer: M/s. Ambuja Cements Limited,

Add: Gare Palma IV/8 Coal Mine, Vill: Khamaria,

PO: Tamnar, Dist: Raigarh-496111

Sample Description : Adequate Measures (Noise Levels)
Sampling Ref Method : IS 5182 (Part 14):2000 RA 2010

Sampled by :GYAN Enviro Representative

Sampling Date :31.08.2021 Sample Receipt Date : NA Sampling Location: N5-N8

Environment Condition: Sunny (during

sampling)

Date of Analysis started :-Date of Analysis completed: --

Testing Period :

## Results of Measurement

Details	Monitoring Locations					
	NA-5	NA-6	NA-7	NA-8		
Standard Limit (CPCB)	75.0 (day hours)					
Observed Value (Day time)	50.1	52.4	56.1	57.9		
Standard Limit (CPCB)	70.0 (night hours)					
Observed Value (night time)	40.0 41.9 43.8 42.					

\*All values are in dB(A)

## Location Details:

- NA-5: Khamaria village(Buffer Zone)
- NA-6: Nr School, Rampura village(Buffer Zone)
- NA-7: At Durga House(Buffer Zone)
- NA-8: At Banjari Temple(Buffer Zone

For M/s Niluwar Laboratories,

Remoka Yaday (Authorized Signatory)

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- Our liability is limited to the commercial value of the test/tests carried out.
- 4. NR-no relaxation; AG-agreeable; NA- not applicable; BDL-Below detection limit

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## CIN No. U74140MH112009PTC196108

Report No.: GE-Nilawar/EMS/2021/Sep/45	Report Date: 09.10.2021
Name & Address of the Customer: M/s. Ambuja Cements Lin Add: Gare Palma IV/8 Coal Mine, Vill: Khamaria, PO: Tamnar, Dist: Raigarh-496111	nited,
Sample Description : Adequate Measures (Noise Levels)	Sampling Location: N1-N4
Sampling Ref Method : IS 5182 (Part 14):2000 RA 2010 Sampled by : GYAN Enviro Representative Sampling Date : 29.09.2021	Environment Condition: Sunny (during sampling)
Sampling Date : 29.09.2021 Sample Receipt Date : NA	Date of Analysis started : Date of Analysis completed: Testing Period :

## Results of Measurement

Details	Monitoring Locations					
Details	NA-1	NA-2	NA-3	NA-4		
Standard Limit (CPCB)	75.0 (day hours)					
Observed Value (Day time)	52.1	53.4	62.8	59.0		
Standard Limit (CPCB)	70.0 (night hours)					
Observed Value (night time)	39.4 42.5 48.3 41.9					

\*All values are in dB(A)

#### Location Details:

- NA-1: Near Main Gate (Core Zone)
- NA-2: At Site Office (Core Zone)
- NA-3: Near Weigh Bridge(Core Zone)
- NA-4: Near Parking(Core Zone)

For M/s Nilawar Laboratories,

Renuka Yaday

.

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- 3. Our liability is limited to the commercial value of the test/tests carried out.
- 4. NR-no relaxation; AG-agreeable; NA- not applicable; BDI-Below detection limit



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CIN No. U74140MH112009PTC196108

Report Date: 09.10.2021

Sep.201

Report No.: GE-Nilawar/EMS/2021/Sep/45

Name & Address of the Customer: M/s. Ambuja Cements Limited,

Add: Gare Palma IV/8 Coal Mine, Vill: Khamaria,

PO: Tamnar, Dist: Raigarh-496111

Sample Description : Adequate Measures (Noise Levels)

Sampling Ref Method : IS 5182 (Part 14) :2000 RA 2010 Sampled by : GYAN Enviro Representative

Sampling Date : 29.09.2021 Sample Receipt Date : NA Sampling Location: N5-N8

Environment Condition: Sunny (during

sampling)

Date of Analysis started :-Date of Analysis completed: --

Testing Period : ---

## Results of Measurement

Datella	Monitoring Locations				
Details	NA-5	NA-6	NA-7	NA-8	
Standard Limit (CPCB)	75.0 (day hours)				
Observed Value (Day time)	46.9	45.8	54.4	47.9	
Standard Limit (CPCB)	70.0 (night hours)				
Observed Value (night time)	32.8 34.5 37.1 34				

<sup>\*</sup>All values are in dB(A)

### **Location Details:**

- NA-5: Khamaria village(Buffer Zone)
- NA-6: Nr School, Rampura village(Buffer Zone)
- NA-7: At Durga House(Buffer Zone)
- NA-8: At Banjari Temple(Buffer Zone

## For M/s Nilawar Laboratories,

Rempka Yaday (Authorized Signatory)

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CIN No. U74140MH112009PTC196108

Report Date: 12.11.2021 Report No.: GE-Nilawar/EMS/2021/Oct/38 Name & Address of the Customer: M/s. Ambuja Cements Limited, Add: Gare Palma IV/8 Coal Mine, Vill: Khamaria, PO: Tamnar, Dist: Raigarh-496111 : Adequate Measures (Noise Levels) Sampling Ref Sampling Location: N1-N4 Sample Description Method : IS 5182 (Part 14) :2000 RA 2010 Environment Condition: Sunny (during Sampled by : GYAN Enviro Representative sampling) : 21.10.2021 Sampling Date Date of Analysis started Sample Receipt Date : NA Date of Analysis completed: --

Testing Period

## Results of Measurement

Date II-	Monitoring Locations				
Details	NA-1	NA-2	NA-3	NA-4	
Standard Limit (CPCB)	75.0 (day hours)				
Observed Value (Day time)	53.7	55.0	61.6	56.8	
Standard Limit (CPCB)	70.0 (night hours)				
Observed Value (night time)	37.3 41.0 45.7 42				

\*All values are in dB(A)

## Location Details:

- NA-1: Near Main Gate (Core Zone)
- · NA-2: At Site Office (Core Zone)
- NA-3: Near Weigh Bridge (Core Zone)
- NA-4: Near Parking (Core Zone)

For M/s Nilawar Laboratories,



RenukaYadav (Authorized Signatory)

#### Note

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CIN No. U74140MH112009PTC196108

00 2021

Report Date: 12.11.2021 Report No.: GE-Nilawar/EMS/2021/Oct/38 Name & Address of the Customer: M/s. Ambuja Cements Limited, Add: Gare Palma IV/8 Coal Mine, Vill: Khamaria, PO: Tamnar, Dist: Raigarh-496111 : Adequate Measures (Noise Levels) Sampling Ref Sampling Location: N5-N8 Sample Description Environment Condition: Sunny (during Method : IS 5182 (Part 14) :2000 RA 2010 : GYAN Enviro Representative Sampled by Sampling Date : 21.10.2021 Date of Analysis started Sample Receipt Date : NA Date of Analysis completed: --Testing Period

## Results of Measurement

Details	NA-5 NA-6 NA-7				
Standard Limit (CPCB)	75.0 (day hours)				
Observed Value (Day time)	49.9 47.2 51.5				
Standard Limit (CPCB)	70.0 (night hours)				
Observed Value (night time)	33.1	34.0	35.8	32.0	

\*All values are in dB(A)

#### Location Details:

- o NA-5: Khamaria village (Buffer Zone)
- NA-6: Nr School, Rampura village (Buffer Zone)
- o NA-7: At Durga House (Buffer Zone)
- NA-8: At Banjari Temple (Buffer Zone)

## For M/s Nilawar Laboratories,



## RenukaYadav (Authorized Signatory)

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CIN No. U74140MH112009PTC196108

Report No.: GE-Nilawar/EMS/2021/Nov/29

Name & Address of the Customer: M/s. Ambuja Cements Limited,
Add: Gare Palma IV/8 Coal Mine, Vill: Khamaria,
PO: Tamnar, Dist: Raigarh-496111

Sample Description : Adequate Measures (Noise Levels) Sampling Location: N1-N4

Sampling Ref Method

: IS 5182 (Part 14) :2000 RA 2010

Environment Condition: Sunny (during

Sampling Ket Method Sampled by

: GYAN Enviro Representative

Environment Condition: Sunny (during sampling)

Sampling Date Sample Receipt Date

: 18.11.2021 : NA

Date of Analysis started : --Date of Analysis completed: --

Testing Period

Results of Measurement

Details	Monitoring Locations					
Details	NA-1 NA-2 NA-3					
Standard Limit (CPCB)	75.0 (day hours)					
Observed Value (Day time)	55.1	54.4	62.3	57.0		
Standard Limit (CPCB)	70.0 (night hours)					
Observed Value (night time)	38.0 40.5 46.1 43					

\*All values are in dB(A)

### Location Details:

- NA-1: Near Main Gate (Core Zone)
- NA-2: At Site Office (Core Zone)
- NA-3: Near Weigh Bridge (Core Zone)
- NA-4: Near Parking (Core Zone)

For M/s Nilawar Laboratories,

Shogar (man)

Renuka Yadav (Authorized Signatory)

## Note:

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Sample Receipt Date

: NA

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CIN No. U74140MH112009PTC196108

Date of Analysis started

Testing Period

Date of Analysis completed: --

Report No.: GE-Nilawar/EMS/2021/Nov/29 Report Date: 08.12.2021 Name & Address of the Customer: M/s. Ambuja Cements Limited, Add: Gare Palma IV/8 Coal Mine, Vill: Khamaria, PO: Tamnar, Dist: Raigarh-496111 Sample Description : Adequate Measures (Noise Levels) Sampling Location: N5-N8 Sampling Ref Method : IS 5182 (Part 14) :2000 RA 2010 Environment Condition: Sunny (during Sampled by : GYAN Enviro Representative sampling) Sampling Date : 18.11.2021

## Results of Measurement

Details	Monitoring Locations					
Details	NA-5 NA-6 NA-7					
Standard Limit (CPCB)	75.0 (day hours)					
Observed Value (Day time)	51.8 46.9 53.4					
Standard Limit (CPCB)	70.0 (night hours)					
Observed Value (night time)	35.0	32.8	36.7	37.2		

\*All values are in dB(A)

Location Details:

NA-5: Khamaria village (Buffer Zone)

NA-6: Nr School, Rampura village (Buffer Zone)

NA-7: At Durga House (Buffer Zone)

NA-8: At Banjari Temple (Buffer Zone)

For M/s Nilawar Laboratories,

Renuka Yadav (Authorized Signatory)

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Dec -2021

CIN No. U74140MH112009PTC196108

Report No.: GE-Nilawar/EMS/2021-22/Dec/50 Report Date: 06.01.2021 Name & Address of the Customer: M/s. Ambuja Cements Limited, Add: Gare Palma IV/8 Coal Mine, Vill: Khamaria, PO: Tamnar, Dist: Raigarh-496111 Sample Description Sampling Location: N1-N4 : Adequate Measures (Noise Levels) Sampling Ref Method : IS 5182 (Part 14) :2000 RA 2010 Environment Condition: Sunny (during Sampled by :GYAN Enviro Representative sampling) Sampling Date :21.10.2021 Date of Analysis started Sample Receipt Date: NA Date of Analysis completed: -Testing Period

## Results of Measurement

Detelle		ng Locations			
Details	NA-1 NA-2 NA-3				
Standard Limit (CPCB)	75.0 (day hours)				
Observed Value (Day time)	56.1	56.9	64.5	59.0	
Standard Limit (CPCB)	70.0 (night hours)				
Observed Value (night time)	39.7 40.4 42.2 4				

<sup>\*</sup>All values are in dB(A)

#### Location Details:

- NA-1: Near Main Gate (Core Zone)
- NA-2: At Site Office (Core Zone)
- NA-3: Near Weigh Bridge(Core Zone)
- NA-4: Near Parking(Core Zone)

For M/s Nilawat Laboratories,



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Dec - 2021

CIN No. U74140MH112009PTC196108

Report Date: 06.01.2021 Report No.: GE-Nilawar/EMS/2021-22/Dec/50 Name & Address of the Customer: M/s. Ambuja Cements Limited, Add: Gare Palma IV/8 Coal Mine, Vill: Khamaria, PO: Tamnar, Dist: Raigarh-496111 Sampling Location: N5-N8 Sample Description : Adequate Measures (Noise Levels) Sampling Ref Method : IS 5182 (Part 14) :2000 RA 2010 Environment Condition: Sunny (during Sampled by :GYAN Enviro Representative sampling) Sampling Date :21.10.2021 Date of Analysis started Sample Receipt Date: NA Date of Analysis completed: -Testing Period

## Results of Measurement

D. 4-A-	Monitoring Locations					
Details	NA-5 NA-6 NA-7					
Standard Limit (CPCB)	75.0 (day hours)					
Observed Value (Day time)	57.8	55.1	59.7	38.5		
Standard Limit (CPCB)	70.0 (night hours)					
Observed Value (night time)	38.9	36.7	38.5	40.1		

\*All values are in dB(A)

### Location Details:

- NA-5: Khamaria village(Buffer Zone)
- NA-6: Nr School, Rampura village(Buffer Zone)
- NA-7: At Durga House(Buffer Zone)
- NA-8: At Banjari Temple(Buffer Zone

For M/s Nilawar Laboratories,

NAGPUT O

Renules Vaday (Authorized Signatury)

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CIN No. U74140MH112009PTC196108

Report No.: GE-Nilawa	r/EMS/2021-22/Jan/32	Report Date: 09.02.2022
	Customer: M/s. Ambuja Cements Lin dd: Gare Palma IV/8 Coal Mine, Vill:	nited, Khamaria, PO: Tamnar, Dist: Raigarh-496111
Sample Description	: Adequate Measures (Noise Levels)	Sampling Location: N1-N4
Sampling Ref Method Sampled by	: IS 5182 (Part 14) :2000 RA 2010 : GYAN Enviro Representative	Environment Condition: Sunny (during sampling)
Sampling Date Sample Receipt Date	: 25.01.2022 : NA	Date of Analysis started : Date of Analysis completed: Testing Period

Results of Measurement

	Monitori	ng Locations				
			Monitoring Locations			
NA-1 NA-2 NA-3						
75.0 (day hours)						
57.3 55.0 66.2						
70.0 (night hours)						
39.9 36.7 43.4 40.8						
	57.3	75.0 (d 57.3 55.0 70.0 (ni	75.0 (day hours) 57.3 55.0 66.2 70.0 (night hours)			

\*All values are in dB(A)

#### Location Details:

- · NA-1: Near Main Gate (Core Zone)
- NA-2: At Site Office (Core Zone)
- NA-3: Near Weigh Bridge (Core Zone)
- · NA-4: Near Parking (Core Zone

Note: Ambient Noise quality is meeting the norms as per CPCB guidelines for above parameters

For M/s Nilawar Laboratories,

Elogu (

Renuka Yadav (Authorized Signatory)

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CIN No. U74140MH112009PTC196108

Report No.: GE-Nilawar/EMS/2021-22/Jan/32

Name & Address of the Customer: M/s. Ambuja Cements Limited,

Add: Gare Palma IV/8 Coal Mine, Vill: Khamaria, PO: Tamnar, Dist: Raigarh-496111

Sample Description

: Adequate Measures (Noise Levels) : IS 5182 (Part 14) :2000 RA 2010

Sampling Location: N5-N8

Sampling Ref Method Sampled by

: GYAN Enviro Representative

Environment Condition: Sunny (during sampling)

Report Date: 09.02.2022

Sampling Date Sample Receipt Date : 25.01.2022

Date of Analysis started

: NA

Date of Analysis completed: --

Testing Period

## Results of Measurement

Data Ba	Monitoring Locations				
Details	NA-5 NA-6 NA-7				
Standard Limit (CPCB)	75.0 (day hours)				
Observed Value (Day time)	55.4	57.3	60.2	48.6	
Standard Limit (CPCB)	70.0 (night hours)				
Observed Value (night time)	36.7	34.2	40.2	30.1	

\*All values are in dB(A)

### Location Details:

- NA-5: Khamaria village (Buffer Zone)
- NA-6: Nr School, Rampura village (Buffer Zone)
- NA-7: At Durga House (Buffer Zone)
- NA-8: At Banjari Temple (Buffer Zone)

Note: Ambient Noise quality is meeting the norms as per CPCB guidelines for above parameters

For M/s Nilawar Laboratories,

Renuka Yadav (Authorized Signatory)

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CIN No. U74140MH112009PTC196108

Report No.: GE-Nilawa	r/EMS/2021-22/Feb/AN /53	Report Date: 07.03.2022
Name & Address of the	: Customer: M/s. Ambuja Cements Lin Add: Gare Palma IV/8 Coal PO: Tamnar, Dist: Raigar	nited,   Mine, Vill: Khamaria,
Sample Description : Adequate Measures (Noise Levels)		Sampling Location: N1-N4
Sampling Ref Method Sampled by Sampling Date	: GYAN Enviro Representative	Environment Condition: Sunny (during sampling)
Sample Receipt Date	: 22.02.2022 : NA	Date of Analysis started : Date of Analysis completed: Testing Period

## Results of Measurement

Details	Monitoring Locations				
Details	NA-1 NA-2 NA-3				
Standard Limit (CPCB)	75.0 (day hours)				
Observed Value (Day time)	58.0 57.2 67.9				
Standard Limit (CPCB)	70.0 (night hours)				
Observed Value (night time)	38.6 37.7 41.0 3				

<sup>\*</sup>All values are in dB(A)

## Location Details:

- NA-1: Near Main Gate (Core Zone)
- NA-2: At Site Office (Core Zone)
- NA-3: Near Weigh Bridge (Core Zone)
- NA-4: Near Parking (Core Zone)

For M/s Nilawar Laboratories,

Remuke Yaday

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CIN No. U74140MH112009PTC196108

Report No.: GE-Nilawar/EMS/2021-22/Feb/AN /54 Report Date: 07.03.2022 Name & Address of the Customer: M/s. Ambuja Cements Limited, Add: Gare Palma IV/8 Coal Mine, Vill: Khamaria, PO: Tamnar, Dist: Raigarh-496111 : Adequate Measures (Noise Levels) Sampling Location: N5-N8 Sample Description Sampling Ref Method : IS 5182 (Part 14) :2000 RA 2010 Environment Condition: Sunny (during Sampled by : GYAN Enviro Representative sampling) Sampling Date : 25.01.2022 Date of Analysis started Sample Receipt Date : NA Date of Analysis completed: -Testing Period

## Results of Measurement

Date De	Monitoring Locations				
Details	NA-5 NA-6 NA-7				
Standard Limit (CPCB)	75.0 (day hours)				
Observed Value (Day time)	57.0	58.8	59.2	50.4	
Standard Limit (CPCB)	70.0 (night hours)				
Observed Value (night time)	37.3	35.6	38.9	36.0	

\*All values are in dB(A)

#### Location Details:

- NA-5: Khamaria village (Buffer Zone)
- NA-6: Nr School, Rampura village (Buffer Zone)
- o NA-7: At Durga House (Buffer Zone)
- o NA-8: At Banjari Temple (Buffer Zone

For M/s Nilawar Laboratories,

Renuks Vaday

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- The results listed referred to the tested samples and applicable parameters only.
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CIN No. U74140MH112009PTC196108

Report No.: GE-Nilawar/EMS/2021-22/Mar/109

Name & Address of the Customer: M/s. Ambuja Cements Limited,
Add: Gare Palma IV/8 Coal Mine, Vill: Khamaria,
PO: Tamnar, Dist: Raigarh-496111

Sample Description : Adequate Measures (Noise Levels)
Sampling Ref Method : IS 5182 (Part 14):2000 RA 2010
Sampled by : GYAN Enviro Representative sampling)

Report Date: 08/04/2022

Report Date: 08/04/2022

Sampling Date :11.03.2022 Sample Receipt Date : NA Date of Analysis started :-Date of Analysis completed: -Testing Period :--

## Results of Measurement

	Monitoring Locations		ng Locations			
Details	NA-1 NA-2 NA-3					
Standard Limit (CPCB)	75.0 (day hours)					
Observed Value (Day time)	55.2	59.5	62.3	60.1		
Standard Limit (CPCB)	70.0 (night hours)					
Observed Value (night time)	35.1 38.3 43.4 40					

\*All values are in dB(A)

## Location Details:

- NA-1: Near Main Gate (Core Zone)
- NA-2: At Site Office (Core Zone)
- NA-3: Near Weigh Bridge(Core Zone)
- NA-4: Near Parking(Core Zone)

For M/s Nilawar Laboratories,

Remoter Vaday

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- 4. NR-no relaxation; AG-agreeable; NA- not applicable; BDL-Below detection limit

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## CIN No. U74140MH112009PTC196108

Report No.: GE-Nilawar/EMS/2021-22/Mar/110 Report Date: 08/04/2022 Name & Address of the Customer: M/s. Ambuja Cements Limited, Add: Gare Palma IV/8 Coal Mine, Vill: Khamaria, PO: Tamnar, Dist: Raigarh-496111 Sampling Location: N5-N8 Sample Description : Adequate Measures (Noise Levels) : IS 5182 (Part 14) :2000 RA 2010 Sampling Ref Method Environment Condition: Sunny (during Sampled by :GYAN Enviro Representative sampling) Sampling Date :11.03.2022 Date of Analysis started Sample Receipt Date: NA Date of Analysis completed: -Testing Period

## Results of Measurement

Datalla	Monitoring Locations			
Details	NA-5	NA-6	NA-7	NA-8
Standard Limit (CPCB)	75.0 (day hours)			
Observed Value (Day time)	59.9	60.3	53.7	52.9
Standard Limit (CPCB)	70.0 (night hours)			
Observed Value (night time)	37.9	36.6	32.4	35.5

\*All values are in dB(A)

#### Location Details:

- NA-5: Khamaria village(Buffer Zone)
- NA-6: Nr School, Rampura village(Buffer Zone)
- NA-7: At Durga House(Buffer Zone)
- NA-8: At Banjari Temple(Buffer Zone

For M/s Nilawar Laboratories,

Remike Vaday

#### Note -

- 1. This report should not be reproduced wholly or in part and not to be used as evidence in any court of law.
- 2. The results listed referred to the tested samples and applicable parameters only.
- 3. Our liability is limited to the commercial value of the test/tests carried out.
- 4. NR-no relaxation; AG-agreeable; NA- not applicable; BDL-Below detection limit

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## **Year Wise Plantation:**

## Development of Green Belt by Ambuja Cements Limited:

Regular plantation is being carried out. So far we have planted 24970 nos. of saplings within mine lease area.

Year wise plantation within mine lease area is mentioned below in tabular form:

FY	Variety of Saplings	No of Sapling	Location	
2018-19	Sal, Chhatawan, Sagaun, Shisham, Gulmohar, Karanj	4500	4500 Safety Zone of 7.5 m	
2019-20	Chhatawan, Sagaun, Shisham, Gulmohar, Karanj, Jamun	5000	In the north east direction of mine and 7.5 m of safety zone.	
2020-21	Khamer, Teak, Mango, Java Plum, Gulmohar, Amla, Bahuda	3000	Safety Zone of 7.5 m around mine lease area	
2021-22	Mango, Guava, Neem, Moringa, Karanj, Amla, Jamun, Jackfruit, Kaju	5220	Opposite Truck Parking, Proposed PWD Road, Near Coal Stock Yard	
2022- to till date	Mango, Guava, Karanj, Teak, Jamun, Chatwan, Jack Fruit, Amla	8000	In OB Dump & Safety Barrier and Coal Stock Area	

Development of Green belt by Ambuja Cement Foundation (CSR): Year wise plantation on community/farmers land/school is mentioned below in tabular form:

Financial Year	Variety of Saplings	No of Sapling	Location
	Mango, Guava, Neem,		Village Khamaria,
2019-20	Moringa, Karanj, Amla, 4230		Karwahi, Lamdarha,
	Jamun, Jackfruit, Kaju		Milupara,
2020-21	Sagaun, Shisham, Gulmohar,		Village Khamaria,
	Karanj, Jamun	2227	Karwahi, Lamdarha,
			Milupara,
	Khamer, Teak, Mango, Java		Village Khamaria,
2021-22	Plum, Gulmohar, Amla, 1530		Karwahi, Lamdarha,
	Bahuda		Milupara,
2022 to Till Date	Neem, Karanj, Mango	500	Near School, Anganwadi,
		300	Gram Panchyat