

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

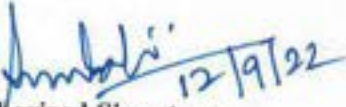
Dear Sir,

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


12/9/22

Authorized Signatory

Sharnappa N Kamballi

Email Primary- unit-head-garepalma@ambujacement.com

Email Secondary- sharanappa.kamballi@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

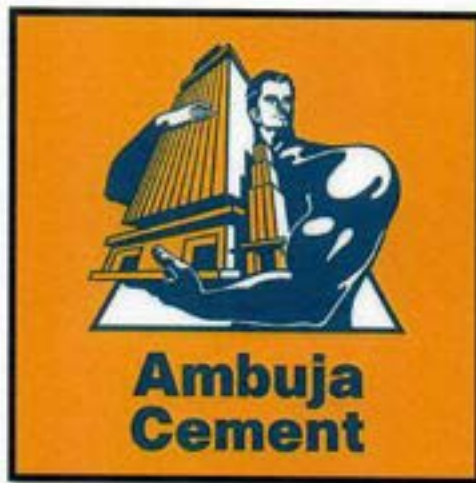
www.ambujacement.com, E-mail : unit-head-garepalma@ambujacement.com

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, TEHSI-
TAMNAR,
DISTRICT- RAIGARH CHHATTISGARH

FORM V
(See Rule 14)

**Environmental Statement for the financial year ending on 31st March on or before
30th of September every year.**

PART 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)	Year of establishment	New Project (Block allotted vide vesting order dated 22.04.2015 and corrigendum No. 1 dated 14.12.2015 Environmental Clearance vide: J-11015/352/2006-IA.II (M) Dated: 22.12.2008
(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 m ³ /day
Total	32 m³/day

S. No.	Name of Product	Process water consumption per unit of output	
		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 Material	Name of Product	Name of Raw Material	Consumption of raw material per unit of output	
				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 <i>Annexure-1</i> .	No applicable	Not applicable.
(ii) Air	The ambient air quality in & around the mining lease area conforms to the standards prescribed by CPCB as per NAAQS-2009. NABL accredited laboratory has been appointment to monthly monitoring of environmental parameters. Test report of NABL approved laboratory for AAQMS is attached as <i>Annexure-2</i> and for Noise Level is enclosed as <i>Annexure-3</i> . CAAQMS has been installed to monitor real time ambient air quality and connected to CECB (Chhattisgarh Environment Conservation Boards) server.		

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 ³	Overburden- 2177196.066 m ³
(b)	From pollution control facility	Nil	Nil
(c)	Quantity recycled or reutilized within the unit	Nil	Nil
(2)	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.

1. **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*.



MoEF RECOGNIZED ENVIRONMENTAL LABORATORY
VALIDITY UPTO 08.02.2022

Annexure-1

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	IS:3025 (part 16)-1984	242.0
3.	Total Suspended Solids	mg/l	IS:3025 (part 16)-1984	16.0
4.	Chloride as Cl	mg/l	IS:3025 (part 32)-1988	26.0
5.	Sulphate as SO ₄	mg/l	IS:3025 (part 24)-1986	56.8
6.	Chemical Oxygen Demand (COD)	mg/l	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/l	IS:3025 (part 39)-1991	<1.0

For Ambuja Cements Ltd,

Authorized Signatory

Note: This report refers only to the sample submitted for testing.
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This report should not be used for publicity or litigation as it is for private use only.
Authenticity of this report could be validated with office copy at MEPL lab.



ISO 9001 : 2015 C No. : 48121A001006E
ISO 14001 : 2015 C No. : 48121B001006E
OHSAS 18001 : 2007 C No. : 48121C001006E

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

Head Office : 20, IT Park, Parsodi, Nagpur - 440 022, Maharashtra (India)
Ph. 0712 - 7125000, 7125200 Fax : 0712 - 6665100, Web : www.smsl.co.in
DIN- U40105MH2005PLC150780

**MAHARASHTRA
ENVIRO POWER LIMITED**

(NAGPUR UNIT)



Nilawar Laboratories
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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/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 Location: Mine-pit Water
Sampling Ref Method : IS 3025 (Part 1):1987 RA 2009	Environment Condition: Sunny (during sampling)
Sampled by : GYAN Enviro Representative	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	--	7.28	IS 3025 (Part 11): 1983 RA 2017 (Clause 2.0)
2	Total Dissolved Solids	mg/L	249	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 ₄	mg/L	54	APHA 23 rd Ed - 4500 SO ₄ ²⁻ (E)4
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,

Renuka Yadav
(Authorized Signatory)

Note -

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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	Environment Condition: Sunny (during sampling)
Sampled by : GYAN Enviro Representative	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	--	7.20	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 ₄	mg/L	34.7	APHA 23 rd Ed - 4500 SO ₄ 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,

Renuka Yadav
(Authorized Signatory)

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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	Sampling Location: ETP Inlet
Sampled by : GYAN Enviro Representative	Sample Date : 15.05.2021	Environment Condition: Sunny (during sampling)
Sample Receipt Date : 16.05.2021		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	--	7.50	IS 3025 (Part 11): 1983 RA 2017 (Clause 2.0)
2	Total Dissolved Solids	mg/L	464	IS 3025 (Part 18): 1984 RA 2017
3	Total Suspended Solids	mg/L	132	IS 3025 (Part 17): 1984 RA 2017
4	Chloride as Cl	mg/L	52.0	IS 3025 (Part 32): 1988 RA 2014 (Clause 2.0)
5	Sulphate as SO ₄	mg/L	86.0	APHA 23 rd Ed - 4500 SO ₄ ²⁻ (E)M
6	Chemical Oxygen Demand (COD)	mg/L	172.0	IS 3025 (Part 58): 2006 RA 2017
7	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

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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: ETP Outlet
Sampling Ref Method : IS 3025 (Part 1):1987 RA 2009	Environment Condition: Sunny (during sampling)
Sampled by : GYAN Enviro Representative	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	--	7.28	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 ₄	mg/L	58.0	APHA 23 rd Ed - 4500 SO ₄ 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,

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CTN No. U74140MH112009PTC196108

June - 2021

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 : 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		Date of Analysis started : 29.06.2021
Sampling Date : 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 ₄	mg/L	51	APHA 23 rd Ed - 4500 SO ₄ ²⁻ (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,

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June 2021

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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	Sampling Location: Mine Discharge Water
Sampled by : GYAN Enviro Representative	Sampling Date : 28.06.2021	Environment Condition: Sunny (during sampling)
Sample Receipt Date : 29.06.2021		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	--	7.18	IS 3025 (Part 11): 1983 RA 2017 (Clause 2.0)
2	Total Dissolved Solids	mg/L	201	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	10.4	IS 3025 (Part 32): 1988 RA 2014 (Clause 2.0)
5	Sulphate as SO ₄	mg/L	31.6	APHA 23 rd Ed - 4500 SO ₄ ²⁻ (E)4
6	Chemical Oxygen Demand (COD)	mg/L	42.0	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,

Renuka Yadav



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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: ETP Inlet
Sampling Ref Method : IS 3025 (Part 1):1987 RA 2009	Environment Condition: Sunny (during sampling)
Sampled by : GYAN Enviro Representative	Date of Analysis started : 29.06.2021
Sampling Date : 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	--	7.42	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 ₄	mg/L	77.0	APHA 23 rd Ed - 4500 SO ₄ 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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CIN No. U74140MH112009PTC196108



June - 2021

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 : Waste water	Sampling Ref Method : IS 3025 (Part 1):1987 RA 2009	Sampling Location: ETP Outlet
Sampled by : GYAN Enviro Representative	Sampling Date : 28.06.2021	Environment Condition: Sunny (during sampling)
Sample Receipt Date : 29.06.2021		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	--	7.76	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 ₄	mg/L	51.9	APHA 23 rd Ed - 4500 SO ₄ 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,

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July 2021

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 Location: Mine Discharge Water	
Sampling Ref Method : IS 3025 (Part 1):1987 RA 2009	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: 07.08.2021	
Sample Receipt Date : 02.08.2021	Testing Period : 06 Days	

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 ₄	mg/L	107	APHA 23 rd Ed - 4500 SO ₄ 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	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,

Renuka Yadav
(Authorized Signatory)

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CIN No. U74140MH112009PTC196108

July 2021

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	Sampling Location: ETP Outlet
Sampled by : GYAN Enviro Representative	Sample Date : 31.07.2021	Environment Condition: Sunny (during sampling)
Sample Receipt Date : 02.08.2021		Date of Analysis started :02.08.2021
		Date of Analysis completed: 07.08.2021
		Testing Period : 06 Days

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 ₄	mg/L	86.0	APHA 23 rd Ed - 4500 SO ₄ ²⁻ (E)4
6	Chemical Oxygen Demand (COD)	mg/L	52.0	IS 3025 (Part 58): 2006 RA 2017
7	Biological Oxygen demand (BOD) 3days @27°C	mg/L	14.0	IS 3025 (Part 44): 1993 RA 2014
8	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

Aug 2021

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 Location: Mine Discharge Water
Sampling Ref Method : IS 3025 (Part 1):1987 RA 2009	Environment Condition: Sunny (during sampling)
Sampled by : GYAN Enviro Representative	Date of Analysis started : 04.09.2021
Sampling Date : 31.07.2021	Date of Analysis completed: 09.09.2021
Sample Receipt Date : 02.08.2021	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 (Clause 2.0)
5	Sulphate as SO ₄	mg/L	164	APHA 23 rd Ed - 4500 SO ²⁻ - (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 Nilawar Laboratories,


Reneka Yadav
(Authorized Signatory)

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Aug 2021

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 : Bore well water	Sampling Location: Borewell water - Mine
Sampling Ref Method : IS 3025 (Part 1):1987 RA 2009	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 (Clause 2.0)
5	Sulphate as SO ₄	mg/L	108	APHA 23 rd Ed - 4500 SO ₄ 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	mg/L	<3.0	IS 3025 (Part 44): 1993 RA 2014
8	Oil & Grease	mg/L	0.32	IS 3025(Part 39): 1991 RA 2014

For M/s Nilawar Laboratories,


Reneka Yadav
(Authorized Signatory)

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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 : Waste water	Sampling Location: Mine Discharge Water
Sampling Ref Method : IS 3025 (Part 1):1987 RA 2009	Environment Condition: Sunny (during sampling)
Sampled by : GYAN Enviro Representative	Date of Analysis started :02.10.2021
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	--	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
4	Chloride as Cl	mg/L	20.4	IS 3025 (Part 32): 1988 RA 2014 (Clause 2.0)
5	Sulphate as SO ₄	mg/L	178	APHA 23 rd Ed - 4500 SO ₄ 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	5.0	IS 3025 (Part 44): 1993 RA 2014
8	Oil & Grease	mg/L	0.58	IS 3025(Part 39): 1991 RA 2014

For M/s Nilawar Laboratories,


Renuka Yadav
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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 : 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	Date of Analysis started :02.10.2021
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	mg/L	22.0	IS 3025 (Part 17): 1984 RA 2017
4	Chloride as Cl	mg/L	45.0	IS 3025 (Part 32): 1988 RA 2014 (Clause 2.0)
5	Sulphate as SO ₄	mg/L	152	APHA 23 rd Ed - 4500 SO ₄ 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

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Oct - 2021

Report No.: GE-Nilawar/EMS/2021/Oct/38	Report Date: 12.11.2021
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 Location: Mine Discharge Water
Sampling Ref Method : IS 3025 (Part 1):1987 RA 2009	Environment Condition: Sunny (during sampling)
Sampled by : GYAN Enviro Representative	Date of Analysis started : 23.10.2021
Sampling Date : 21.10.2021	Date of Analysis completed: 28.10.2021
Sample Receipt Date : 22.10.2021	Testing Period : 6 Days

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 ₄	mg/L	190	APHA 23 rd Ed - 4500 SO ₄ 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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Oct 2021

Report No.: GE-Nilawar/EMS/2021/Oct/38		Report Date: 12.11.2021
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 Ref Method : IS 3025 (Part 1):1987 RA 2009	Sampling Location: Mine Pit Water
Sampled by : GYAN Enviro Representative	Environment Condition: Sunny (during sampling)	Date of Analysis started : 23.10.2021
Sampling Date : 21.10.2021	Date of Analysis completed: 28.10.2021	Testing Period : 6 Days
Sample Receipt Date : 22.10.2021		

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 ₄	mg/L	167	APHA 23 rd Ed - 4500 SO ₄ ²⁻ - (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	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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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 : Waste water	Sampling Location: Mine Discharge Water
Sampling Ref Method : IS 3025 (Part 1):1987 RA 2009	Environment Condition: Sunny (during sampling)
Sampled by : GYAN Enviro Representative	Date of Analysis started : 26.11.2021
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	--	7.59	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 ₄	mg/L	29.0	APHA 23 rd Ed - 4500 SO ₄ ⁻ - (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
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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	Date of Analysis started	: 26.11.2021
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 ₄	mg/L	59.0	APHA 23 rd Ed - 4500 SO ₄ ⁻² - (E) ⁺
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 Location: Mine Discharge Water
Sampling Ref Method : IS 3025 (Part 1):1987 RA 2009	Environment Condition: Sunny (during sampling)
Sampled by : GYAN Enviro Representative	Date of Analysis started :31.12.2021
Sampling Date :28.12.2021	Date of Analysis completed: 05.01.2022
Sample Receipt Date :31.12.2021	Testing Period :6 Days

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 (Clause 2.0)
5	Sulphate as SO ₄	mg/L	59	APHA 23 rd Ed - 4500 SO ₄ ²⁻ - (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,


Renuka Yadav
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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 Location: Mine Pit Water
Sampling Ref Method : IS 3025 (Part 1):1987 RA 2009	Environment Condition: Sunny (during sampling)
Sampled by : GYAN Enviro Representative	Date of Analysis started : 31.12.2021
Sampling Date : 28.12.2021	Date of Analysis completed: 05.01.2022
Sample Receipt Date : 31.12.2021	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 (Clause 2.0)
5	Sulphate as SO ₄	mg/L	46.9	APHA 23 rd Ed - 4500 SO ₄ ²⁻ - (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 Yadav
(Authorized Signatory)

Note -

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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 Limited, Add: Gare Palma IV/8 Coal Mine, Vill: Khamaria PO: Tamnar, Dist: Raigarh-496111	
Sample Description : Mine Water	Sampling Location: Mine Water
Sampling Ref Method : IS 3025 (Part 1):1987 RA 2009	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: 02.02.2022
Sample Receipt Date : 27.01.2022	Testing Period : 6 Days

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)
5	Sulphate as SO ₄	mg/L	42.0	APHA 23 rd 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	<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 Yadav
(Authorized Signatory)

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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 Limited, Add: Gare Palma IV/8 Coal Mine, Vill: Khamaria 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	Date of Analysis started : 28.01.2022
Sampling Date : 24.01.2022	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	IS 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 ₄	mg/L	<1000	92.0	APHA 23 rd Ed - 4500 SO ₄ ²⁻ (E) _M
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/2021-22/feb/GW/58	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 : Ground water	Sampling Location: Well water at Khamriya Village (Mr Gupta House)
Sampling Ref Method : IS 3025 (Part 1):1987 RA 2009	Environment Condition: Sunny (during sampling)
Sampled by : GYAN Enviro Representative	Date of Analysis started : 26.02.2022
Sampling Date : 22.02.2022	Date of Analysis completed: 03.02.2022
Sample Receipt Date : 24.02.2022	Testing Period : 6 Days
Latitude : 22.16610N	Longitude : 83.50630 E

Results of Analysis

S.N.	Parameters	Unit	As per IS 10500:1991		Values Result
			Desirable	Permissible	
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 ₃	mg/L	200	600	120.0
12.	Total Hardness as CaCO ₃	mg/L	300	600	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 Cl	mg/L	250	1000	38.2
16.	Sulphates as SO ₄	mg/L	200	400	40.7
17.	Fluoride as F	mg/L	1.0	1.5	0.213
18.	Nitrates as NO ₃	mg/L	45	NR	0.339
19.	Iron as Fe	mg/L	0.3	1.0	BDL

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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,

Renuka Yadav
(Authorized Signatory)

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Report No.: GE-Nilawar/EMS/2021-22/Feb/GW/59	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 : 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	Date of Analysis started : 26.02.2022
Sampling Date : 22.02.2022	Date of Analysis completed: 03.02.2022
Sample Receipt Date : 24.02.2022	Testing Period : 6 Days
Latitude : 22.169641N	Longitude : 83.53628 E

Results of Analysis

S.N.	Parameters	Unit	As per IS 10500:1991		Values Result
			Desirable	Permissible	
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		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 ₃	mg/L	200	600	185
12.	Total Hardness as CaCO ₃	mg/L	300	600	208
13.	Calcium as Ca	mg/L	75	200	49.9
14.	Magnesium as Mg	mg/L	30	100	19.8
15.	Chlorides as Cl	mg/L	250	1000	115
16.	Sulphates as SO ₄	mg/L	200	400	45.4
17.	Fluoride as F	mg/L	1.0	1.5	0.156
18.	Nitrates as NO ₃	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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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 Yadav
(Authorized Signatory)

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March-2023

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 Mine, Vill: Khamaria PO: Tamnar, Dist: Raigarh-496111	
Sample Description : Ground water	Sampling Location: Well water at Khamriya Village (Mr Gupta House)
Sampling Ref Method : IS 3025 (Part 1):1987 RA 2009	Environment Condition: Sunny (during sampling)
Sampled by : GYAN Enviro Representative	Date of Analysis started : 16.03.2022
Sampling Date : 11.03.2022	Date of Analysis completed: 22.03.2022
Sample Receipt Date : 14.03.2022	Testing Period : 6 Days
Latitude : 22.16610N	Longitude : 83.50630E

Results of Analysis

S.N.	Parameters	Unit	As per IS 10500:1991		Values Result
			Desirable	Permissible	
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
7.	Dissolved Oxygen (DO)	mg/L	-	-	4.0
8.	Biochemical Oxygen Demand	mg/L	-	-	<3.0
9.	Chemical Oxygen Demand	mg/L	-	-	8.0
10.	Conductivity	µS/cm	-	-	285
11.	Total Alkalinity as CaCO ₃	mg/L	200	600	40.0
12.	Total Hardness as CaCO ₃	mg/L	300	600	124.0
13.	Calcium as Ca	mg/L	75	200	29.8
14.	Magnesium as Mg	mg/L	30	100	12.0
15.	Chlorides as Cl	mg/L	250	1000	16.1
16.	Sulphates as SO ₄	mg/L	200	400	7.81
17.	Fluoride as F	mg/L	1.0	1.5	0.058
18.	Nitrates as NO ₃	mg/L	45	NR	1.04
19.	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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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
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 Yadav
(Authorized Signatory)

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March-2022

Report No.: GE-Nilawar/EMS/2021-22/Mar/321	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 : Waste water	Sampling Location: Mine Seepage Water
Sampling Ref Method : IS 3025 (Part 1):1987 RA 2009	Environment Condition: Sunny (during sampling)
Sampled by : GYAN Enviro Representative	Date of Analysis started : 16.03.2022
Sampling Date : 11.03.2022	Date of Analysis completed: 22.03.2022
Sample Receipt Date : 14.03.2022	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 ₄	mg/L	<1000	20.2	APHA 23 rd Ed - 4500 SO ₄ ²⁻ (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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VALIDITY UPTO 08.02.2022

April-2021



Ref. No: MEPL/Lab/Cons/TMS/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 : 22.169931N
Longitude : 83.494959E

(24 hrs sampling)

Sr. No.	Parameters	Reference Method	NAAQM* Standards	Values
				AAQ-1
1.	Particulate Matter (PM ₁₀)	IS 5182	100	68.4
2.	Particulate Matter (PM _{2.5})		60	24.6
3.	Sulphur Dioxide (SO ₂)		80	14.4
4.	Oxides of Nitrogen (NO _x)		80	18.2
5.	Carbon Monoxide (CO) [#]		4000	496.0
6.	Lead (Pb)		1.0	<0.01
7.	Arsenic (As)		0.006	<0.002
8.	Nickel (Ni)		0.02	<0.001
9.	Mercury (Hg)		-	<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 $\mu\text{g}/\text{m}^3$; [#] One hour monitoring

For **MAHARASHTRA ENVIRO CARE LTD,**



Authorized Signatory

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CIN : U40305MH2004PLN1542780

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ENVIRO POWER LIMITED**

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 : North
Distance from site : 310 Mtr
Latitude : 22.178831N
Longitude : 83.508995E

Sr. No.	Parameters	Reference Method	NAAQM* Standards	Values
				AAQ-2
1.	Particulate Matter (PM ₁₀)	IS 5182	100	58.6
2.	Particulate Matter (PM _{2.5})		60	23.4
3.	Sulphur Dioxide (SO ₂)		80	16.6
4.	Oxides of Nitrogen (NO _x)		80	21.2
5.	Carbon Monoxide (CO) [#]		4000	494.0
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-2): At **Banjari Temple** (Buffer Zone)

* NAAQMS- National Ambient Air Quality Monitoring Standards (MoEF notification 2009)
 All values are in $\mu\text{g}/\text{m}^3$; [#] One hour monitoring

For SMS Enviro Ltd,

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April-2021



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

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 : North -West
Distance from site : 460 mtr
Latitude : 22.161729N
Longitude : 83.498074E

(24 hrs sampling)

Sr. No.	Parameters	Reference Method	NAAQM* Standards	Values
				AAQ-3
1.	Particulate Matter (PM ₁₀)	IS 5182	100	56.2
2.	Particulate Matter (PM _{2.5})		60	23.6
3.	Sulphur Dioxide (SO ₂)		80	17.6
4.	Oxides of Nitrogen (NO _x)		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

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

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

All values are in $\mu\text{g}/\text{m}^3$; [#] One hour monitoring

For **ENVIRO POWER LTD.**



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ISO 9001 : 2015 C No. : 48121/0201/UKS
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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 : East
Distance from site : 400 mtr
Latitude : 22.162807N
Longitude : 83.504231E

Sr. No.	Parameters	Reference Method	NAAQM* Standards	(24 hrs sampling)
				Values
				AAQ-4
1.	Particulate Matter (PM ₁₀)	IS 5182	100	57.2
2.	Particulate Matter (PM _{2.5})		60	23.6
3.	Sulphur Dioxide (SO ₂)		80	18.2
4.	Oxides of Nitrogen (NO _x)		80	20.8
5.	Carbon Monoxide (CO) [#]		4000	498.0
6.	Lead (Pb)		1.0	<0.01
7.	Arsenic (As)		0.006	<0.002
8.	Nickel (Ni)		0.02	<0.001
9.	Mercury (Hg)		-	<0.001

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

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

All values are in $\mu\text{g}/\text{m}^3$; [#] One hour monitoring

For SMS Envirocare Ltd,



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

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 : South
Distance from site : 280 mtr
Latitude : 22.166381N
Longitude : 83.497756E

(24 hrs sampling)

Sr. No.	Parameters	Reference Method	NAAQM* Standards	Values
				AAQ-5
1.	Particulate Matter (PM ₁₀)	IS 5182	100	57.4
2.	Particulate Matter (PM _{2.5})		60	22.6
3.	Sulphur Dioxide (SO ₂)		80	16.2
4.	Oxides of Nitrogen (NO _x)		80	21.4
5.	Carbon Monoxide (CO) [#]		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 $\mu\text{g}/\text{m}^3$; [#] One hour monitoring

For SMS Envirocare Ltd,

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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		
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 : 16.05.2021	
Sampling Date : From 14.05.2021 to 15.05.2021	Date of Analysis completed: 18.05.2021	
Sample Receipt Date : 16.05.2021	Testing Period : 3 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
1.	Particulate Matter size less than 10 μm (PM ₁₀)	$\mu\text{g}/\text{m}^3$	100	58.7	USEPA - 40 CFR Part 50 (Appendix O)
2.	Particulate Matter size less than 2.5 μm (PM _{2.5})	$\mu\text{g}/\text{m}^3$	60	22.4	USEPA - 40 CFR Part 50 (Appendix O)
3.	Sulphur Dioxide (SO ₂)	$\mu\text{g}/\text{m}^3$	80	14.2	IS 5182 (Part 2): 2001 RA 2017
4.	Nitrogen Dioxide (NO ₂)	$\mu\text{g}/\text{m}^3$	80	18.9	IS 5182 (Part 6): 2006 RA 2017
5.	Carbon Monoxide (as CO)*	$\mu\text{g}/\text{m}^3$	4000	480.0	IS 5182 (Part 10) : 1999 RA 2014 (Clause 5.0)
6.	Lead (Pb)*	$\mu\text{g}/\text{m}^3$	1.0	BDL	IS 5182 (Part 22): 2004 RA 2014 (Clause 5.0)
7.	Arsenic (as As) *	$\mu\text{g}/\text{m}^3$	6.0	<0.2	IS 5182 (Part 22): 2004 RA 2014 (Clause 5.0)
8.	Nickel (as Ni) *	$\mu\text{g}/\text{m}^3$	20.0	BDL	IS 5182 (Part 22): 2004 RA 2014 (Clause 5.0)
9.	Mercury (Hg)	$\mu\text{g}/\text{m}^3$	--	<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 $\mu\text{g}/\text{m}^3$
- BDL: Below Detectable Limit and 24 Hrs sampling

For M/s Nilawar Laboratories,

Renuka Yadav
(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			
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	: 16.05.2021
Sampling Date	: From 14.05.2021 to 15.05.2021	Date of Analysis completed:	: 18.05.2021
Sample Receipt Date	: 16.05.2021	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_{10})	$\mu\text{g}/\text{m}^3$	100	59.0	USEPA - 40 CFR Part 50 (Appendix O)
2.	Particulate Matter size less than 2.5 μm ($\text{PM}_{2.5}$)	$\mu\text{g}/\text{m}^3$	60	20.8	USEPA - 40 CFR Part 50 (Appendix O)
3.	Sulphur Dioxide (SO_2)	$\mu\text{g}/\text{m}^3$	80	12.6	IS 5182 (Part 2): 2001 RA 2017
4.	Nitrogen Dioxide (NO_2)	$\mu\text{g}/\text{m}^3$	80	19.0	IS 5182 (Part 6): 2006 RA 2017
5.	Carbon Monoxide (as CO)*	$\mu\text{g}/\text{m}^3$	4000	490.0	IS 5182 (Part 10) : 1999 RA 2014 (Clause 5.0)
6.	Lead (Pb)*	$\mu\text{g}/\text{m}^3$	1.0	<0.01	IS 5182 (Part 22): 2004 RA 2014 (Clause 5.0)
7.	Arsenic (as As) *	$\mu\text{g}/\text{m}^3$	6.0	<0.001	IS 5182 (Part 22): 2004 RA 2014 (Clause 5.0)
8.	Nickel (as Ni) *	$\mu\text{g}/\text{m}^3$	20.0	<0.001	IS 5182 (Part 22): 2004 RA 2014 (Clause 5.0)
9.	Mercury (Hg)	$\mu\text{g}/\text{m}^3$	--	<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 $\mu\text{g}/\text{m}^3$
- BDL: Below Detectable Limit
- 24 Hrs sampling

For M/s Nilawar Laboratories,

Renuka Yadav
(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			
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	: 16.05.2021
Sampling Date	: From 14.05.2021 to 15.05.2021	Date of Analysis completed:	18.05.2021
Sample Receipt Date	: 16.05.2021	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_{10})	$\mu\text{g}/\text{m}^3$	100	55.4	USEPA - 40 CFR Part 50 (Appendix O)
2.	Particulate Matter size less than 2.5 μm ($\text{PM}_{2.5}$)	$\mu\text{g}/\text{m}^3$	60	20.7	USEPA - 40 CFR Part 50 (Appendix O)
3.	Sulphur Dioxide (SO_2)	$\mu\text{g}/\text{m}^3$	80	13.5	IS 5182 (Part 2): 2001 RA 2017
4.	Nitrogen Dioxide (NO_2)	$\mu\text{g}/\text{m}^3$	80	17.2	IS 5182 (Part 6): 2006 RA 2017
5.	Carbon Monoxide (as CO)*	$\mu\text{g}/\text{m}^3$	4000	510.0	IS 5182 (Part 10) : 1999 RA 2014 (Clause 5.0)
6.	Lead (Pb)*	$\mu\text{g}/\text{m}^3$	1.0	<0.01	IS 5182 (Part 22): 2004 RA 2014 (Clause 5.0)
7.	Arsenic (as As) *	$\mu\text{g}/\text{m}^3$	6.0	<0.001	IS 5182 (Part 22): 2004 RA 2014 (Clause 5.0)
8.	Nickel (as Ni) *	$\mu\text{g}/\text{m}^3$	20.0	<0.001	IS 5182 (Part 22): 2004 RA 2014 (Clause 5.0)
9.	Mercury (Hg)	$\mu\text{g}/\text{m}^3$	--	<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 $\mu\text{g}/\text{m}^3$
- BDL: Below Detectable Limit
- 24 Hrs sampling

For M/s Nilawar Laboratories,

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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	: Ambient Air Sample	Sampling Location: Nr School, Rampura 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	: 16.05.2021
Sampling Date	: From 14.05.2021 to 15.05.2021	Date of Analysis completed:	: 18.05.2021
Sample Receipt Date	: 16.05.2021	Testing Period	: 3 Days
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
1.	Particulate Matter size less than 10 μm (PM_{10})	$\mu\text{g}/\text{m}^3$	100	56.0	USEPA - 40 CFR Part 50 (Appendix O)
2.	Particulate Matter size less than 2.5 μm ($\text{PM}_{2.5}$)	$\mu\text{g}/\text{m}^3$	60	21.2	USEPA - 40 CFR Part 50 (Appendix O)
3.	Sulphur Dioxide (SO_2)	$\mu\text{g}/\text{m}^3$	80	13.0	IS 5182 (Part 2): 2001 RA 2017
4.	Nitrogen Dioxide (NO_2)	$\mu\text{g}/\text{m}^3$	80	16.5	IS 5182 (Part 6): 2006 RA 2017
5.	Carbon Monoxide (as CO)*	$\mu\text{g}/\text{m}^3$	4000	485.0	IS 5182 (Part 10) : 1999 RA 2014 (Clause 5.0)
6.	Lead (Pb)*	$\mu\text{g}/\text{m}^3$	1.0	<0.01	IS 5182 (Part 22): 2004 RA 2014 (Clause 5.0)
7.	Arsenic (as As) *	$\mu\text{g}/\text{m}^3$	6.0	<0.002	IS 5182 (Part 22): 2004 RA 2014 (Clause 5.0)
8.	Nickel (as Ni) *	$\mu\text{g}/\text{m}^3$	20.0	<0.001	IS 5182 (Part 22): 2004 RA 2014 (Clause 5.0)
9.	Mercury (Hg)	$\mu\text{g}/\text{m}^3$	--	<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 $\mu\text{g}/\text{m}^3$
- BDL: Below Detectable Limit
- 24 Hrs sampling

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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	: 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	: 16.05.2021
Sampling Date	: From 14.05.2021 to 15.05.2021	Date of Analysis completed:	18.05.2021
Sample Receipt Date	: 16.05.2021	Testing Period	: 3 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_{10})	$\mu\text{g}/\text{m}^3$	100	54.0	USEPA - 40 CFR Part 50 (Appendix O)
2.	Particulate Matter size less than 2.5 μm ($\text{PM}_{2.5}$)	$\mu\text{g}/\text{m}^3$	60	20.8	USEPA - 40 CFR Part 50 (Appendix O)
3.	Sulphur Dioxide (SO_2)	$\mu\text{g}/\text{m}^3$	80	12.5	IS 5182 (Part 2): 2001 RA 2017
4.	Nitrogen Dioxide (NO_2)	$\mu\text{g}/\text{m}^3$	80	18.0	IS 5182 (Part 6): 2006 RA 2017
5.	Carbon Monoxide (as CO)*	$\mu\text{g}/\text{m}^3$	4000	467.0	IS 5182 (Part 10) : 1999 RA 2014 (Clause 5.0)
6.	Lead (Pb)*	$\mu\text{g}/\text{m}^3$	1.0	<0.01	IS 5182 (Part 22): 2004 RA 2014 (Clause 5.0)
7.	Arsenic (as As) *	$\mu\text{g}/\text{m}^3$	6.0	<0.001	IS 5182 (Part 22): 2004 RA 2014 (Clause 5.0)
8.	Nickel (as Ni) *	$\mu\text{g}/\text{m}^3$	20.0	<0.001	IS 5182 (Part 22): 2004 RA 2014 (Clause 5.0)
9.	Mercury (Hg)	$\mu\text{g}/\text{m}^3$	--	<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 $\mu\text{g}/\text{m}^3$
- BDL: Below Detectable Limit and 24 Hrs sampling

For M/s Nilawar Laboratories,

Renuka Yadav
(Authorized Signatory)

Note -

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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: Tannar, 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 : 30.06.2021
Sampling Date	: From 28.06.2021 to 29.06.2021	Date of Analysis completed: 02.07.2021
Sample Receipt Date	: 30.06.2021	Testing Period : 3 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-I Result	Test Method
1.	Particulate Matter size less than 10 μm (PM_{10})	$\mu\text{g}/\text{m}^3$	100	55.1	USEPA - 40 CFR Part 50 (Appendix O)
2.	Particulate Matter size less than 2.5 μm ($\text{PM}_{2.5}$)	$\mu\text{g}/\text{m}^3$	60	20.8	USEPA - 40 CFR Part 50 (Appendix O)
3.	Sulphur Dioxide (SO_2)	$\mu\text{g}/\text{m}^3$	80	12.4	IS 5182 (Part 2): 2001 RA 2017
4.	Nitrogen Dioxide (NO_2)	$\mu\text{g}/\text{m}^3$	80	16.9	IS 5182 (Part 6): 2006 RA 2017
5.	Carbon Monoxide (as CO)*	$\mu\text{g}/\text{m}^3$	4000	450.0	IS 5182 (Part 10) : 1999 RA 2014 (Clause 5.0)
6.	Lead (Pb)*	$\mu\text{g}/\text{m}^3$	1.0	BDL	IS 5182 (Part 22): 2004 RA 2014 (Clause 5.0)
7.	Arsenic (as As) *	$\mu\text{g}/\text{m}^3$	6.0	<0.2	IS 5182 (Part 22): 2004 RA 2014 (Clause 5.0)
8.	Nickel (as Ni) *	$\mu\text{g}/\text{m}^3$	20.0	BDL	IS 5182 (Part 22): 2004 RA 2014 (Clause 5.0)
9.	Mercury (Hg)	$\mu\text{g}/\text{m}^3$	--	<0.01	IS 5182 (Part 22): 2004 RA 2014 (Clause 5.0)

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- All values are in $\mu\text{g}/\text{m}^3$
- BDL: Below Detectable Limit and 24 Hrs sampling

For M/s Nilawar Laboratories,

Renuka Yadav
(Authorized Signatory)

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CIN No. U74140MH112009PTC196108

June - 2021

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: 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	: 30.06.2021
Sampling Date	: From 28.06.2021 to 29.06.2021	Date of Analysis completed:	02.07.2021
Sample Receipt Date	: 30.06.2021	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 ₁₀)	$\mu\text{g}/\text{m}^3$	100	56.8	USEPA - 40 CFR Part 50 (Appendix O)
2.	Particulate Matter size less than 2.5 μm (PM _{2.5})	$\mu\text{g}/\text{m}^3$	60	20.2	USEPA - 40 CFR Part 50 (Appendix O)
3.	Sulphur Dioxide (SO ₂)	$\mu\text{g}/\text{m}^3$	80	11.0	IS 5182 (Part 2): 2001 RA 2017
4.	Nitrogen Dioxide (NO ₂)	$\mu\text{g}/\text{m}^3$	80	17.5	IS 5182 (Part 6): 2006 RA 2017
5.	Carbon Monoxide (as CO)*	$\mu\text{g}/\text{m}^3$	4000	482.0	IS 5182 (Part 10) : 1999 RA 2014 (Clause 5.0)
6.	Lead (Pb)*	$\mu\text{g}/\text{m}^3$	1.0	<0.01	IS 5182 (Part 22): 2004 RA 2014 (Clause 5.0)
7.	Arsenic (as As) *	$\mu\text{g}/\text{m}^3$	6.0	<0.001	IS 5182 (Part 22): 2004 RA 2014 (Clause 5.0)
8.	Nickel (as Ni) *	$\mu\text{g}/\text{m}^3$	20.0	<0.001	IS 5182 (Part 22): 2004 RA 2014 (Clause 5.0)
9.	Mercury (Hg)	$\mu\text{g}/\text{m}^3$	--	<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 $\mu\text{g}/\text{m}^3$
- BDL: Below Detectable Limit
- 24 Hrs sampling

For M/s Nilawar Laboratories,

Renuka Yadav
(Authorized Signatory)

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CIN No. U74140MH112009PTC196108

Nilawar Laboratories
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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: 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	: 30.06.2021
Sampling Date	: From 28.06.2021 to 29.06.2021	Date of Analysis completed:	02.07.2021
Sample Receipt Date	: 30.06.2021	Testing Period	: 3 Days
Latitude	: 22.161729N	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_{10})	$\mu\text{g}/\text{m}^3$	100	50.8	USEPA - 40 CFR Part 50 (Appendix O)
2.	Particulate Matter size less than 2.5 μm ($\text{PM}_{2.5}$)	$\mu\text{g}/\text{m}^3$	60	19.5	USEPA - 40 CFR Part 50 (Appendix O)
3.	Sulphur Dioxide (SO_2)	$\mu\text{g}/\text{m}^3$	80	10.7	IS 5182 (Part 2): 2001 RA 2017
4.	Nitrogen Dioxide (NO_2)	$\mu\text{g}/\text{m}^3$	80	15.6	IS 5182 (Part 6): 2006 RA 2017
5.	Carbon Monoxide (as CO)*	$\mu\text{g}/\text{m}^3$	4000	490.0	IS 5182 (Part 10) : 1999 RA 2014 (Clause 5.0)
6.	Lead (Pb)*	$\mu\text{g}/\text{m}^3$	1.0	<0.01	IS 5182 (Part 22): 2004 RA 2014 (Clause 5.0)
7.	Arsenic (as As) *	$\mu\text{g}/\text{m}^3$	6.0	<0.001	IS 5182 (Part 22): 2004 RA 2014 (Clause 5.0)
8.	Nickel (as Ni) *	$\mu\text{g}/\text{m}^3$	20.0	<0.001	IS 5182 (Part 22): 2004 RA 2014 (Clause 5.0)
9.	Mercury (Hg)	$\mu\text{g}/\text{m}^3$	--	<0.001	IS 5182 (Part 22): 2004 RA 2014 (Clause 5.0)

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- All values are in $\mu\text{g}/\text{m}^3$
- BDL: Below Detectable Limit
- 24 Hrs sampling

For M/s Nilawar Laboratories,

Renuka Yadav

Renuka Yadav
(Authorized Signatory)

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Jun 2021

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 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 : 30.06.2021	
Sampling Date : From 28.06.2021 to 29.06.2021	Date of Analysis completed: 02.07.2021	
Sample Receipt Date : 30.06.2021	Testing Period : 3 Days	
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
1.	Particulate Matter size less than 10 μm (PM ₁₀)	$\mu\text{g}/\text{m}^3$	100	52.6	USEPA - 40 CFR Part 50 (Appendix O)
2.	Particulate Matter size less than 2.5 μm (PM _{2.5})	$\mu\text{g}/\text{m}^3$	60	20.3	USEPA - 40 CFR Part 50 (Appendix O)
3.	Sulphur Dioxide (SO ₂)	$\mu\text{g}/\text{m}^3$	80	11.5	IS 5182 (Part 2): 2001 RA 2017
4.	Nitrogen Dioxide (NO ₂)	$\mu\text{g}/\text{m}^3$	80	14.9	IS 5182 (Part 6): 2006 RA 2017
5.	Carbon Monoxide (as CO)*	$\mu\text{g}/\text{m}^3$	4000	460.0	IS 5182 (Part 10) : 1999 RA 2014 (Clause 5.0)
6.	Lead (Pb)*	$\mu\text{g}/\text{m}^3$	1.0	<0.01	IS 5182 (Part 22): 2004 RA 2014 (Clause 5.0)
7.	Arsenic (as As) *	$\mu\text{g}/\text{m}^3$	6.0	<0.002	IS 5182 (Part 22): 2004 RA 2014 (Clause 5.0)
8.	Nickel (as Ni) *	$\mu\text{g}/\text{m}^3$	20.0	<0.001	IS 5182 (Part 22): 2004 RA 2014 (Clause 5.0)
9.	Mercury (Hg)	$\mu\text{g}/\text{m}^3$	—	<0.001	IS 5182 (Part 22): 2004 RA 2014 (Clause 5.0)

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- All values are in $\mu\text{g}/\text{m}^3$
- BDL: Below Detectable Limit
- 24 Hrs sampling

For M/s Nilawar Laboratories,

Renuka Yadav
(Authorized Signatory)

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June 2021

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: 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 : 30.06.2021	
Sampling Date : From 28.06.2021 to 29.06.2021	Date of Analysis completed: 02.07.2021	
Sample Receipt Date : 30.06.2021	Testing Period : 3 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_{10})	$\mu\text{g}/\text{m}^3$	100	50.2	USEPA - 40 CFR Part 50 (Appendix O)
2.	Particulate Matter size less than 2.5 μm ($\text{PM}_{2.5}$)	$\mu\text{g}/\text{m}^3$	60	19.8	USEPA - 40 CFR Part 50 (Appendix O)
3.	Sulphur Dioxide (SO_2)	$\mu\text{g}/\text{m}^3$	80	10.4	IS 5182 (Part 2): 2001 RA 2017
4.	Nitrogen Dioxide (NO_2)	$\mu\text{g}/\text{m}^3$	80	16.1	IS 5182 (Part 6): 2006 RA 2017
5.	Carbon Monoxide (as CO)*	$\mu\text{g}/\text{m}^3$	4000	455.0	IS 5182 (Part 10) : 1999 RA 2014 (Clause 5.0)
6.	Lead (Pb)*	$\mu\text{g}/\text{m}^3$	1.0	<0.01	IS 5182 (Part 22): 2004 RA 2014 (Clause 5.0)
7.	Arsenic (as As) *	$\mu\text{g}/\text{m}^3$	6.0	<0.001	IS 5182 (Part 22): 2004 RA 2014 (Clause 5.0)
8.	Nickel (as Ni) *	$\mu\text{g}/\text{m}^3$	20.0	<0.001	IS 5182 (Part 22): 2004 RA 2014 (Clause 5.0)
9.	Mercury (Hg)	$\mu\text{g}/\text{m}^3$	--	<0.001	IS 5182 (Part 22): 2004 RA 2014 (Clause 5.0)

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- All values are in $\mu\text{g}/\text{m}^3$
- **BDL: Below Detectable Limit and 24 Hrs sampling**

For M/s Nilawar Laboratories,

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(Authorized Signatory)

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July 2021

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 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 : 02.08.2021	
Sampling Date : 30.07.2021	Date of Analysis completed: 06.08.2021	
Sample Receipt Date : 02.08.2021	Testing Period : 4 Days	
Latitude: 22.169931 N	Direction from site : Within site	
Longitude: 83.494959 E	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_{10})	$\mu\text{g}/\text{m}^3$	100	50.4	USEPA - 40 CFR Part 50 (Appendix O)
2.	Particulate Matter size less than 2.5 μm ($\text{PM}_{2.5}$)	$\mu\text{g}/\text{m}^3$	60	16.7	USEPA - 40 CFR Part 50 (Appendix O)
3.	Sulphur Dioxide (SO_2)	$\mu\text{g}/\text{m}^3$	80	11.1	IS 5182 (Part 2): 2001 RA 2017
4.	Nitrogen Dioxide (NO_2)	$\mu\text{g}/\text{m}^3$	80	14.9	IS 5182 (Part 6): 2006 RA 2017
5.	Carbon Monoxide (as CO)*	$\mu\text{g}/\text{m}^3$	4000	401.0	IS 5182 (Part 10) : 1999 RA 2014 (Clause 5.0)
6.	Lead (Pb)*	$\mu\text{g}/\text{m}^3$	1.0	BDL	IS 5182 (Part 22): 2004 RA 2014 (Clause 5.0)
7.	Arsenic (as As) *	$\mu\text{g}/\text{m}^3$	6.0	<0.2	IS 5182 (Part 22): 2004 RA 2014 (Clause 5.0)
8.	Nickel (as Ni) *	$\mu\text{g}/\text{m}^3$	20.0	BDL	IS 5182 (Part 22): 2004 RA 2014 (Clause 5.0)
9.	Mercury (Hg)	$\mu\text{g}/\text{m}^3$	--	<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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July 2021

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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	Date of Analysis completed: 06.08.2021
Sampling Date : 31.07.2021	Testing Period : 4 Days	
Sample Receipt Date : 02.08.2021		
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_{10})	$\mu\text{g}/\text{m}^3$	100	51.5	USEPA - 40 CFR Part 50 (Appendix O)
2.	Particulate Matter size less than 2.5 μm ($\text{PM}_{2.5}$)	$\mu\text{g}/\text{m}^3$	60	18.4	USEPA - 40 CFR Part 50 (Appendix O)
3.	Sulphur Dioxide (SO_2)	$\mu\text{g}/\text{m}^3$	80	10.7	IS 5182 (Part 2): 2001 RA 2017
4.	Nitrogen Dioxide (NO_2)	$\mu\text{g}/\text{m}^3$	80	15.2	IS 5182 (Part 6): 2006 RA 2017
5.	Carbon Monoxide (as CO)*	$\mu\text{g}/\text{m}^3$	4000	415.0	IS 5182 (Part 10) : 1999 RA 2014 (Clause 5.0)
6.	Lead (Pb) *	$\mu\text{g}/\text{m}^3$	1.0	<0.01	IS 5182 (Part 22): 2004 RA 2014 (Clause 5.0)
7.	Arsenic (as As) *	$\mu\text{g}/\text{m}^3$	6.0	<0.001	IS 5182 (Part 22): 2004 RA 2014 (Clause 5.0)
8.	Nickel (as Ni) *	$\mu\text{g}/\text{m}^3$	20.0	<0.001	IS 5182 (Part 22): 2004 RA 2014 (Clause 5.0)
9.	Mercury (Hg)	$\mu\text{g}/\text{m}^3$	--	<0.001	IS 5182 (Part 22): 2004 RA 2014 (Clause 5.0)

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- All values are in $\mu\text{g}/\text{m}^3$
- BDL: Below Detectable Limit
- 24 Hrs sampling

For M/s Nilawar Laboratories,

Renuka Yadav
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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 Ref Method : IS 5182 (Part 14) :2000 RA 2010	Sampling Location: At Khamaria village (Buffer Zone)
Sampled by : GYAN Enviro Representative	Sample Date : 30.07.2021	Environment Condition: Sunny (during sampling)
Sample Receipt Date : 02.08.2021	Latitude : 22.161729 N	Date of Analysis started : 02.08.2021
Longitude : 83.498074 E	Direction from site : North -West	Date of Analysis completed: 06.08.2021
	Distance from site : 460 mt	Testing Period : 4 Days

Results of Analysis

S.N	Test Parameters	Unit	Permissible Limit	AAQ-3 Result	Test Method
1.	Particulate Matter size less than 10 μm (PM_{10})	$\mu\text{g}/\text{m}^3$	100	48.8	USEPA - 40 CFR Part 50 (Appendix O)
2.	Particulate Matter size less than 2.5 μm ($\text{PM}_{2.5}$)	$\mu\text{g}/\text{m}^3$	60	17.1	USEPA - 40 CFR Part 50 (Appendix O)
3.	Sulphur Dioxide (SO_2)	$\mu\text{g}/\text{m}^3$	80	10.1	IS 5182 (Part 2): 2001 RA 2017
4.	Nitrogen Dioxide (NO_2)	$\mu\text{g}/\text{m}^3$	80	14.4	IS 5182 (Part 6): 2006 RA 2017
5.	Carbon Monoxide (as CO)*	$\mu\text{g}/\text{m}^3$	4000	455.0	IS 5182 (Part 10) : 1999 RA 2014 (Clause 5.0)
6.	Lead (Pb)*	$\mu\text{g}/\text{m}^3$	1.0	<0.01	IS 5182 (Part 22): 2004 RA 2014 (Clause 5.0)
7.	Arsenic (as As)*	$\mu\text{g}/\text{m}^3$	6.0	<0.001	IS 5182 (Part 22): 2004 RA 2014 (Clause 5.0)
8.	Nickel (as Ni)*	$\mu\text{g}/\text{m}^3$	20.0	<0.001	IS 5182 (Part 22): 2004 RA 2014 (Clause 5.0)
9.	Mercury (Hg)	$\mu\text{g}/\text{m}^3$	--	<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 $\mu\text{g}/\text{m}^3$
- BDL: Below Detectable Limit and 24 Hrs sampling

For M/s Nilawar Laboratories,

Renuka Yadav
(Authorized Signatory)

Note -

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



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 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	: 30.06.2021
Sampling Date	: From 28.06.2021 to 29.06.2021	Date of Analysis completed:	02.07.2021
Sample Receipt Date	: 30.06.2021	Testing Period	: 3 Days
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
1.	Particulate Matter size less than 10 μm (PM_{10})	$\mu\text{g}/\text{m}^3$	100	52.6	USEPA - 40 CFR Part 50 (Appendix O)
2.	Particulate Matter size less than 2.5 μm ($\text{PM}_{2.5}$)	$\mu\text{g}/\text{m}^3$	60	20.3	USEPA - 40 CFR Part 50 (Appendix O)
3.	Sulphur Dioxide (SO_2)	$\mu\text{g}/\text{m}^3$	80	11.5	IS 5182 (Part 2): 2001 RA 2017
4.	Nitrogen Dioxide (NO_2)	$\mu\text{g}/\text{m}^3$	80	14.9	IS 5182 (Part 6): 2006 RA 2017
5.	Carbon Monoxide (as CO)*	$\mu\text{g}/\text{m}^3$	4000	460.0	IS 5182 (Part 10) : 1999 RA 2014 (Clause 5.0)
6.	Lead (Pb)*	$\mu\text{g}/\text{m}^3$	1.0	<0.01	IS 5182 (Part 22): 2004 RA 2014 (Clause 5.0)
7.	Arsenic (as As) *	$\mu\text{g}/\text{m}^3$	6.0	<0.002	IS 5182 (Part 22): 2004 RA 2014 (Clause 5.0)
8.	Nickel (as Ni) *	$\mu\text{g}/\text{m}^3$	20.0	<0.001	IS 5182 (Part 22): 2004 RA 2014 (Clause 5.0)
9.	Mercury (Hg)	$\mu\text{g}/\text{m}^3$	--	<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 $\mu\text{g}/\text{m}^3$
- BDL: Below Detectable Limit and 24 Hrs sampling

For M/s Nilawar Laboratories,

Renuka Yadav
(Authorized Signatory)

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July 2021

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 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 : 02.08.2021	
Sampling Date : 30.07.2021	Date of Analysis completed: 06.08.2021	
Sample Receipt Date : 02.08.2021	Testing Period : 4 Days	
Latitude : 22.166381 N	Direction from site : South	
Longitude : 83.497756 E	Distance from site : 280 mtr	

Results of Analysis

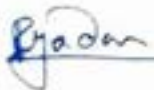
S.N	Test Parameters	Unit	Permissible Limit	AAQ-5 Result	Test Method
1.	Particulate Matter size less than 10 μm (PM ₁₀)	$\mu\text{g}/\text{m}^3$	100	48.5	USEPA - 40 CFR Part 50 (Appendix O)
2.	Particulate Matter size less than 2.5 μm (PM _{2.5})	$\mu\text{g}/\text{m}^3$	60	16.0	USEPA - 40 CFR Part 50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

- BDL: Below Detectable Limit and 24 Hrs sampling

For M/s Nilawar Laboratories,




Renuka Yadav
(Authorized Signatory)

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August - 2021

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 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 :03.09.2021
Sampling Date :30.08.2021	Date of Analysis completed: 07.09.2021
Sample Receipt Date :02.09.2021	Testing Period :5 Days
Latitude: 22.169931N	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
1.	Particulate Matter size less than 10 μm (PM_{10})	$\mu\text{g}/\text{m}^3$	100	53.7	USEPA - 40 CFR Part 50(Appendix O)
2.	Particulate Matter size less than 2.5 μm ($\text{PM}_{2.5}$)	$\mu\text{g}/\text{m}^3$	60	14.8	USEPA - 40 CFR Part 50(Appendix O)
3.	Sulphur Dioxide (SO_2)	$\mu\text{g}/\text{m}^3$	80	12.4	IS 5182 (Part 2): 2001RA 2017
4.	Nitrogen Dioxide (NO_2)	$\mu\text{g}/\text{m}^3$	80	16.1	IS 5182 (Part 6): 2006RA 2017
5.	Carbon Monoxide (as CO)*	$\mu\text{g}/\text{m}^3$	4000	425.0	IS 5182 (Part 10) : 1999 RA 2014(Clause 5.0)
6.	Lead (Pb)*	$\mu\text{g}/\text{m}^3$	1.0	BDL	IS 5182 (Part 22): 2004 RA 2014(Clause 5.0)
7.	Arsenic (as As) *	$\mu\text{g}/\text{m}^3$	6.0	<0.2	IS 5182 (Part 22): 2004 RA 2014(Clause 5.0)
8.	Nickel (as Ni) *	$\mu\text{g}/\text{m}^3$	20.0	BDL	IS 5182 (Part 22): 2004 RA 2014(Clause 5.0)
9.	Mercury (Hg)	$\mu\text{g}/\text{m}^3$	--	<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 $\mu\text{g}/\text{m}^3$
- BDL: Below Detectable Limit
- 24 Hrs sampling

For M/s Nilawar Laboratories,


Renuka Yadav
(Authorized Signatory)

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

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Aug 2021

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 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 :03.09.2021
Sampling Date :30.08.2021	Date of Analysis completed: 07.09.2021
Sample Receipt Date :02.09.2021	Testing Period :5 Days
Latitude : 22.178831N	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_{10})	$\mu\text{g}/\text{m}^3$	100	55.0	USEPA - 40 CFR Part 50(Appendix O)
2.	Particulate Matter size less than 2.5 μm ($\text{PM}_{2.5}$)	$\mu\text{g}/\text{m}^3$	60	17.2	USEPA - 40 CFR Part 50(Appendix O)
3.	Sulphur Dioxide (SO_2)	$\mu\text{g}/\text{m}^3$	80	11.5	IS 5182 (Part 2): 2001RA 2017
4.	Nitrogen Dioxide (NO_2)	$\mu\text{g}/\text{m}^3$	80	16.0	IS 5182 (Part 6): 2006RA 2017
5.	Carbon Monoxide (as CO)*	$\mu\text{g}/\text{m}^3$	4000	445.0	IS 5182 (Part 10) : 1999 RA 2014(Clause 5.0)
6.	Lead (Pb)*	$\mu\text{g}/\text{m}^3$	1.0	<0.01	IS 5182 (Part 22): 2004 RA 2014(Clause 5.0)
7.	Arsenic (as As) *	$\mu\text{g}/\text{m}^3$	6.0	<0.001	IS 5182 (Part 22): 2004 RA 2014(Clause 5.0)
8.	Nickel (as Ni) *	$\mu\text{g}/\text{m}^3$	20.0	<0.001	IS 5182 (Part 22): 2004 RA 2014(Clause 5.0)
9.	Mercury (Hg)	$\mu\text{g}/\text{m}^3$	--	<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 $\mu\text{g}/\text{m}^3$
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- 24 Hrs sampling

For M/s Nilawar Laboratories,


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Aug 2, 21

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 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 :03.09.2021
Sampling Date :30.08.2021	Date of Analysis completed: 07.09.2021
Sample Receipt Date :02.09.2021	Testing Period :5 Days
Latitude : 22.161729N	Direction from site : North -West
Longitude : 83.498074E	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 ₁₀)	$\mu\text{g}/\text{m}^3$	100	50.0	USEPA - 40 CFR Part 50(Appendix O)
2.	Particulate Matter size less than 2.5 μm (PM _{2.5})	$\mu\text{g}/\text{m}^3$	60	16.9	USEPA - 40 CFR Part 50(Appendix O)
3.	Sulphur Dioxide (SO ₂)	$\mu\text{g}/\text{m}^3$	80	12.4	IS 5182 (Part 2): 2001RA 2017
4.	Nitrogen Dioxide (NO ₂)	$\mu\text{g}/\text{m}^3$	80	16.7	IS 5182 (Part 6): 2006RA 2017
5.	Carbon Monoxide (as CO)*	$\mu\text{g}/\text{m}^3$	4000	470.0	IS 5182 (Part 10) : 1999 RA 2014(Clause 5.0)
6.	Lead (Pb)*	$\mu\text{g}/\text{m}^3$	1.0	<0.01	IS 5182 (Part 22): 2004 RA 2014(Clause 5.0)
7.	Arsenic (as As) *	$\mu\text{g}/\text{m}^3$	6.0	<0.001	IS 5182 (Part 22): 2004 RA 2014(Clause 5.0)
8.	Nickel (as Ni) *	$\mu\text{g}/\text{m}^3$	20.0	<0.001	IS 5182 (Part 22): 2004 RA 2014(Clause 5.0)
9.	Mercury (Hg)	$\mu\text{g}/\text{m}^3$	--	<0.001	IS 5182 (Part 22): 2004 RA 2014(Clause 5.0)

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- 24 Hrs sampling

For M/s Nilawar Laboratories,


Renuka Yeddy
(Authorized Signatory)

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Aug 2021

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 Location: Nr School, Rampura 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 : 03.09.2021		
Sampling Date : 31.08.2021	Date of Analysis completed: 07.09.2021		
Sample Receipt Date : 02.09.2021	Testing Period : 5 Days		
Latitude : 22.162807N	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 ₁₀)	$\mu\text{g}/\text{m}^3$	100	51.4	USEPA - 40 CFR Part 50(Appendix O)
2.	Particulate Matter size less than 2.5 μm (PM _{2.5})	$\mu\text{g}/\text{m}^3$	60	17.0	USEPA - 40 CFR Part 50(Appendix O)
3.	Sulphur Dioxide (SO ₂)	$\mu\text{g}/\text{m}^3$	80	11.5	IS 5182 (Part 2): 2001RA 2017
4.	Nitrogen Dioxide (NO ₂)	$\mu\text{g}/\text{m}^3$	80	15.2	IS 5182 (Part 6): 2006RA 2017
5.	Carbon Monoxide (as CO)*	$\mu\text{g}/\text{m}^3$	4000	460.0	IS 5182 (Part 10) : 1999 RA 2014(Clause 5.0)
6.	Lead (Pb)*	$\mu\text{g}/\text{m}^3$	1.0	<0.01	IS 5182 (Part 22): 2004 RA 2014(Clause 5.0)
7.	Arsenic (as As) *	$\mu\text{g}/\text{m}^3$	6.0	<0.002	IS 5182 (Part 22): 2004 RA 2014(Clause 5.0)
8.	Nickel (as Ni) *	$\mu\text{g}/\text{m}^3$	20.0	<0.001	IS 5182 (Part 22): 2004 RA 2014(Clause 5.0)
9.	Mercury (Hg)	$\mu\text{g}/\text{m}^3$	--	<0.001	IS 5182 (Part 22): 2004 RA 2014(Clause 5.0)

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- 24 Hrs sampling

For M/s Nilawar Laboratories,



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Aug 2021

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 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 : 03.09.2021
Sampling Date : 31.08.2021	Date of Analysis completed: 07.09.2021
Sample Receipt Date : 02.09.2021	Testing Period : 5 Days
Latitude : 22.166381N	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
1.	Particulate Matter size less than 10 μm (PM ₁₀)	$\mu\text{g}/\text{m}^3$	100	50.3	USEPA - 40 CFR Part 50(Appendix O)
2.	Particulate Matter size less than 2.5 μm (PM _{2.5})	$\mu\text{g}/\text{m}^3$	60	15.8	USEPA - 40 CFR Part 50(Appendix O)
3.	Sulphur Dioxide (SO ₂)	$\mu\text{g}/\text{m}^3$	80	10.7	IS 5182 (Part 2): 2001RA 2017
4.	Nitrogen Dioxide (NO ₂)	$\mu\text{g}/\text{m}^3$	80	16.1	IS 5182 (Part 6): 2006RA 2017
5.	Carbon Monoxide (as CO)*	$\mu\text{g}/\text{m}^3$	4000	455.0	IS 5182 (Part 10) : 1999 RA 2014(Clause 5.0)
6.	Lead (Pb)*	$\mu\text{g}/\text{m}^3$	1.0	<0.01	IS 5182 (Part 22): 2004 RA 2014(Clause 5.0)
7.	Arsenic (as As) *	$\mu\text{g}/\text{m}^3$	6.0	<0.001	IS 5182 (Part 22): 2004 RA 2014(Clause 5.0)
8.	Nickel (as Ni) *	$\mu\text{g}/\text{m}^3$	20.0	<0.001	IS 5182 (Part 22): 2004 RA 2014(Clause 5.0)
9.	Mercury (Hg)	$\mu\text{g}/\text{m}^3$	--	<0.001	IS 5182 (Part 22): 2004 RA 2014(Clause 5.0)

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- BDL: Below Detectable Limit
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For M/s Nilawar Laboratories,


Renuka Yadav
(Authorized Signatory)

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CIN No. U74140MH112009PTC196108

Sep 2021

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 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 : 04.10.2021
Sampling Date : 29.09.2021	Date of Analysis completed: 08.10.2021
Sample Receipt Date :01.10.2021	Testing Period : 5 Days
Latitude: 22.169931N	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
1.	Particulate Matter size less than 10 μm (PM_{10})	$\mu\text{g}/\text{m}^3$	100	51.5	USEPA - 40 CFR Part 50(Appendix O)
2.	Particulate Matter size less than 2.5 μm ($\text{PM}_{2.5}$)	$\mu\text{g}/\text{m}^3$	60	15.3	USEPA - 40 CFR Part 50(Appendix O)
3.	Sulphur Dioxide (SO_2)	$\mu\text{g}/\text{m}^3$	80	11.9	IS 5182 (Part 2): 2001RA 2017
4.	Nitrogen Dioxide (NO_2)	$\mu\text{g}/\text{m}^3$	80	17.4	IS 5182 (Part 6): 2006RA 2017
5.	Carbon Monoxide (as CO)*	$\mu\text{g}/\text{m}^3$	4000	408	IS 5182 (Part 10) : 1999 RA 2014(Clause 5.0)
6.	Lead (Pb)*	$\mu\text{g}/\text{m}^3$	1.0	BDL	IS 5182 (Part 22): 2004 RA 2014(Clause 5.0)
7.	Arsenic (as As) *	$\mu\text{g}/\text{m}^3$	6.0	<0.2	IS 5182 (Part 22): 2004 RA 2014(Clause 5.0)
8.	Nickel (as Ni) *	$\mu\text{g}/\text{m}^3$	20.0	BDL	IS 5182 (Part 22): 2004 RA 2014(Clause 5.0)
9.	Mercury (Hg)	$\mu\text{g}/\text{m}^3$	--	<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 $\mu\text{g}/\text{m}^3$
- BDL: Below Detectable Limit
- 24 Hrs sampling

For M/s Nilawar Laboratories,


Renuka Yadav
(Authorized Signatory)

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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	Date of Analysis started : 04.10.2021
Sampling Date : 29.09.2021	Date of Analysis completed: 08.10.2021
Sample Receipt Date : 01.10.2021	Testing Period : 5 Days
Latitude : 22.178831N	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 ₁₀)	$\mu\text{g}/\text{m}^3$	100	53.8	USEPA - 40 CFR Part 50(Appendix O)
2.	Particulate Matter size less than 2.5 μm (PM _{2.5})	$\mu\text{g}/\text{m}^3$	60	16.0	USEPA - 40 CFR Part 50(Appendix O)
3.	Sulphur Dioxide (SO ₂)	$\mu\text{g}/\text{m}^3$	80	12.1	IS 5182 (Part 2): 2001RA 2017
4.	Nitrogen Dioxide (NO ₂)	$\mu\text{g}/\text{m}^3$	80	14.5	IS 5182 (Part 6): 2006RA 2017
5.	Carbon Monoxide (as CO)*	$\mu\text{g}/\text{m}^3$	4000	466	IS 5182 (Part 10) : 1999 RA 2014(Clause 5.0)
6.	Lead (Pb)*	$\mu\text{g}/\text{m}^3$	1.0	<0.01	IS 5182 (Part 22): 2004 RA 2014(Clause 5.0)
7.	Arsenic (as As) *	$\mu\text{g}/\text{m}^3$	6.0	<0.001	IS 5182 (Part 22): 2004 RA 2014(Clause 5.0)
8.	Nickel (as Ni) *	$\mu\text{g}/\text{m}^3$	20.0	<0.001	IS 5182 (Part 22): 2004 RA 2014(Clause 5.0)
9.	Mercury (Hg)	$\mu\text{g}/\text{m}^3$	--	<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 $\mu\text{g}/\text{m}^3$
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For M/s Nilawar Laboratories,



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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 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 : 04.10.2021
Sampling Date : 29.09.2021	Date of Analysis completed: 08.10.2021
Sample Receipt Date : 01.10.2021	Testing Period : 5 Days
Latitude : 22.161729N	Direction from site : North -West
Longitude : 83.498074E	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_{10})	$\mu\text{g}/\text{m}^3$	100	48.7	USEPA - 40 CFR Part 50(Appendix O)
2.	Particulate Matter size less than 2.5 μm ($\text{PM}_{2.5}$)	$\mu\text{g}/\text{m}^3$	60	15.5	USEPA - 40 CFR Part 50(Appendix O)
3.	Sulphur Dioxide (SO_2)	$\mu\text{g}/\text{m}^3$	80	11.0	IS 5182 (Part 2): 2001RA 2017
4.	Nitrogen Dioxide (NO_2)	$\mu\text{g}/\text{m}^3$	80	14.1	IS 5182 (Part 6): 2006RA 2017
5.	Carbon Monoxide (as CO)*	$\mu\text{g}/\text{m}^3$	4000	482.0	IS 5182 (Part 10) : 1999 RA 2014(Clause 5.0)
6.	Lead (Pb)*	$\mu\text{g}/\text{m}^3$	1.0	<0.01	IS 5182 (Part 22): 2004 RA 2014(Clause 5.0)
7.	Arsenic (as As) *	$\mu\text{g}/\text{m}^3$	6.0	<0.001	IS 5182 (Part 22): 2004 RA 2014(Clause 5.0)
8.	Nickel (as Ni) *	$\mu\text{g}/\text{m}^3$	20.0	<0.001	IS 5182 (Part 22): 2004 RA 2014(Clause 5.0)
9.	Mercury (Hg)	$\mu\text{g}/\text{m}^3$	--	<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 $\mu\text{g}/\text{m}^3$
- BDL: Below Detectable Limit
- 24 Hrs sampling

For M/s Nilawar Laboratories,



Renuka Yadav
(Authorized Signatory)

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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: Nr School, Rampura 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 : 04.10.2021
Sampling Date : 29.09.2021	Date of Analysis completed: 08.10.2021
Sample Receipt Date : 01.10.2021	Testing Period : 5 Days
Latitude : 22.162807N	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_{10})	$\mu\text{g}/\text{m}^3$	100	50.9	USEPA - 40 CFR Part 50(Appendix O)
2.	Particulate Matter size less than 2.5 μm ($\text{PM}_{2.5}$)	$\mu\text{g}/\text{m}^3$	60	15.4	USEPA - 40 CFR Part 50(Appendix O)
3.	Sulphur Dioxide (SO_2)	$\mu\text{g}/\text{m}^3$	80	12.7	IS 5182 (Part 2): 2001RA 2017
4.	Nitrogen Dioxide (NO_2)	$\mu\text{g}/\text{m}^3$	80	16.1	IS 5182 (Part 6): 2006RA 2017
5.	Carbon Monoxide (as CO)*	$\mu\text{g}/\text{m}^3$	4000	472.0	IS 5182 (Part 10) : 1999 RA 2014(Clause 5.0)
6.	Lead (Pb)*	$\mu\text{g}/\text{m}^3$	1.0	<0.01	IS 5182 (Part 22): 2004 RA 2014(Clause 5.0)
7.	Arsenic (as As) *	$\mu\text{g}/\text{m}^3$	6.0	<0.002	IS 5182 (Part 22): 2004 RA 2014(Clause 5.0)
8.	Nickel (as Ni) *	$\mu\text{g}/\text{m}^3$	20.0	<0.001	IS 5182 (Part 22): 2004 RA 2014(Clause 5.0)
9.	Mercury (Hg)	$\mu\text{g}/\text{m}^3$	--	<0.001	IS 5182 (Part 22): 2004 RA 2014(Clause 5.0)

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- 24 Hrs sampling

For M/s Nilawar Laboratories,


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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 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 : 04.10.2021	Date of Analysis completed: 08.10.2021
Sampling Date : 29.09.2021	Testing Period : 5 Days	
Sample Receipt Date : 01.10.2021	Direction from site : South	Distance from site : 280 mtr
Latitude : 22.166381N		
Longitude : 83.497756E		

Results of Analysis

S.N	Test Parameters	Unit	Permissible Limit	AAQ-5 Result	Test Method
1.	Particulate Matter size less than 10 μm (PM_{10})	$\mu\text{g}/\text{m}^3$	100	47.6	USEPA - 40 CFR Part 50(Appendix O)
2.	Particulate Matter size less than 2.5 μm ($\text{PM}_{2.5}$)	$\mu\text{g}/\text{m}^3$	60	14.3	USEPA - 40 CFR Part 50(Appendix O)
3.	Sulphur Dioxide (SO_2)	$\mu\text{g}/\text{m}^3$	80	11.8	IS 5182 (Part 2): 2001RA 2017
4.	Nitrogen Dioxide (NO_2)	$\mu\text{g}/\text{m}^3$	80	17.4	IS 5182 (Part 6): 2006RA 2017
5.	Carbon Monoxide (as CO)*	$\mu\text{g}/\text{m}^3$	4000	460.0	IS 5182 (Part 10) : 1999 RA 2014(Clause 5.0)
6.	Lead (Pb)*	$\mu\text{g}/\text{m}^3$	1.0	<0.01	IS 5182 (Part 22): 2004 RA 2014(Clause 5.0)
7.	Arsenic (as As) *	$\mu\text{g}/\text{m}^3$	6.0	<0.001	IS 5182 (Part 22): 2004 RA 2014(Clause 5.0)
8.	Nickel (as Ni) *	$\mu\text{g}/\text{m}^3$	20.0	<0.001	IS 5182 (Part 22): 2004 RA 2014(Clause 5.0)
9.	Mercury (Hg)	$\mu\text{g}/\text{m}^3$	--	<0.001	IS 5182 (Part 22): 2004 RA 2014(Clause 5.0)

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- 24 Hrs sampling

For M/s Nilawar Laboratories,


Renuka Yadav
(Authorized Signatory)

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06-2021

Report No.: GE-Nilawar/EMS/2021/Oct/38		Report Date: 12.11.2021
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 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 : 23.10.2021	
Sampling Date : 20.10.2021	Date of Analysis completed: 27.10.2021	
Sample Receipt Date : 22.10.2021	Testing Period : 5 Days	
Latitude: 22.169931 N	Direction from site : Within site	
Longitude: 83.494959 E	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_{10})	$\mu\text{g}/\text{m}^3$	100	50.8	USEPA - 40 CFR Part 50 (Appendix O)
2.	Particulate Matter size less than 2.5 μm ($\text{PM}_{2.5}$)	$\mu\text{g}/\text{m}^3$	60	15.1	USEPA - 40 CFR Part 50 (Appendix O)
3.	Sulphur Dioxide (SO_2)	$\mu\text{g}/\text{m}^3$	80	12.7	IS 5182 (Part 2): 2001 RA 2017
4.	Nitrogen Dioxide (NO_2)	$\mu\text{g}/\text{m}^3$	80	19.0	IS 5182 (Part 6): 2006 RA 2017
5.	Carbon Monoxide (as CO)*	$\mu\text{g}/\text{m}^3$	4000	425	IS 5182 (Part 10) : 1999 RA 2014 (Clause 5.0)
6.	Lead (Pb) *	$\mu\text{g}/\text{m}^3$	1.0	BDL	IS 5182 (Part 22): 2004 RA 2014 (Clause 5.0)
7.	Arsenic (as As) *	$\mu\text{g}/\text{m}^3$	6.0	<0.2	IS 5182 (Part 22): 2004 RA 2014 (Clause 5.0)
8.	Nickel (as Ni) *	$\mu\text{g}/\text{m}^3$	20.0	BDL	IS 5182 (Part 22): 2004 RA 2014 (Clause 5.0)
9.	Mercury (Hg)	$\mu\text{g}/\text{m}^3$	--	<0.01	IS 5182 (Part 22): 2004 RA 2014 (Clause 5.0)

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For M/s Nilawar Laboratories,

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Oct - 2021

Report No.: GE-Nilawar/EMS/2021/Oct/38		Report Date: 12.11.2021
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 : 23.10.2021	
Sampling Date : 20.10.2021	Date of Analysis completed: 27.10.2021	
Sample Receipt Date : 22.10.2021	Testing Period : 5 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 ₁₀)	µg/m ³	100	52.5	USEPA - 40 CFR Part 50 (Appendix O)
2.	Particulate Matter size less than 2.5 µm (PM _{2.5})	µg/m ³	60	15.1	USEPA - 40 CFR Part 50 (Appendix O)
3.	Sulphur Dioxide (SO ₂)	µg/m ³	80	14.2	IS 5182 (Part 2): 2001 RA 2017
4.	Nitrogen Dioxide (NO ₂)	µg/m ³	80	16.7	IS 5182 (Part 6): 2006 RA 2017
5.	Carbon Monoxide (as CO)*	µg/m ³	4000	485.0	IS 5182 (Part 10) : 1999 RA 2014 (Clause 5.0)
6.	Lead (Pb)*	µg/m ³	1.0	<0.01	IS 5182 (Part 22): 2004 RA 2014 (Clause 5.0)
7.	Arsenic (as As) *	µg/m ³	6.0	<0.001	IS 5182 (Part 22): 2004 RA 2014 (Clause 5.0)
8.	Nickel (as Ni) *	µg/m ³	20.0	<0.001	IS 5182 (Part 22): 2004 RA 2014 (Clause 5.0)
9.	Mercury (Hg)	µg/m ³	--	<0.001	IS 5182 (Part 22): 2004 RA 2014 (Clause 5.0)

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For M/s Nilawar Laboratories,

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CIN No. U74140MH112009PTC196108

Report No.: GE-Nilawar/EMS/2021/Oct/38		Report Date: 12.11.2021	
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 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	: 23.10.2021
Sampling Date	: 20.10.2021	Date of Analysis completed:	: 27.10.2021
Sample Receipt Date	: 22.10.2021	Testing Period	: 5 Days
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
1.	Particulate Matter size less than 10 μm (PM_{10})	$\mu\text{g}/\text{m}^3$	100	48.7	USEPA - 40 CFR Part 50 (Appendix O)
2.	Particulate Matter size less than 2.5 μm ($\text{PM}_{2.5}$)	$\mu\text{g}/\text{m}^3$	60	13.6	USEPA - 40 CFR Part 50 (Appendix O)
3.	Sulphur Dioxide (SO_2)	$\mu\text{g}/\text{m}^3$	80	14.1	IS 5182 (Part 2): 2001 RA 2017
4.	Nitrogen Dioxide (NO_2)	$\mu\text{g}/\text{m}^3$	80	19.5	IS 5182 (Part 6): 2006 RA 2017
5.	Carbon Monoxide (as CO)*	$\mu\text{g}/\text{m}^3$	4000	490.0	IS 5182 (Part 10) : 1999 RA 2014 (Clause 5.0)
6.	Lead (Pb)*	$\mu\text{g}/\text{m}^3$	1.0	<0.01	IS 5182 (Part 22): 2004 RA 2014 (Clause 5.0)
7.	Arsenic (as As) *	$\mu\text{g}/\text{m}^3$	6.0	<0.002	IS 5182 (Part 22): 2004 RA 2014 (Clause 5.0)
8.	Nickel (as Ni) *	$\mu\text{g}/\text{m}^3$	20.0	<0.001	IS 5182 (Part 22): 2004 RA 2014 (Clause 5.0)
9.	Mercury (Hg)	$\mu\text{g}/\text{m}^3$	--	<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 $\mu\text{g}/\text{m}^3$
- BDL: Below Detectable Limit
- 24 Hrs sampling

For M/s Nilawar Laboratories,

Renuka Yadav
(Authorized Signatory)

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CIN No. U74140MH112009PTC196108

Oct-2021

Report No.: GE- Nilawar/EMS/2021/Oct/38		Report Date: 12.11.2021
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 : 23.10.2021	
Sampling Date : 20.10.2021	Date of Analysis completed: 27.10.2021	
Sample Receipt Date : 22.10.2021	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 ₁₀)	µg/m ³	100	49.5	USEPA - 40 CFR Part 50 (Appendix O)
2.	Particulate Matter size less than 2.5 µm (PM _{2.5})	µg/m ³	60	15.1	USEPA - 40 CFR Part 50 (Appendix O)
3.	Sulphur Dioxide (SO ₂)	µg/m ³	80	13.5	IS 5182 (Part 2): 2001 RA 2017
4.	Nitrogen Dioxide (NO ₂)	µg/m ³	80	18.8	IS 5182 (Part 6): 2006 RA 2017
5.	Carbon Monoxide (as CO)*	µg/m ³	4000	454.0	IS 5182 (Part 10) : 1999 RA 2014 (Clause 5.0)
6.	Lead (Pb)*	µg/m ³	1.0	<0.01	IS 5182 (Part 22): 2004 RA 2014 (Clause 5.0)
7.	Arsenic (as As) *	µg/m ³	6.0	<0.001	IS 5182 (Part 22): 2004 RA 2014 (Clause 5.0)
8.	Nickel (as Ni) *	µg/m ³	20.0	<0.001	IS 5182 (Part 22): 2004 RA 2014 (Clause 5.0)
9.	Mercury (Hg)	µg/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 Yadav
(Authorized Signatory)

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CIN No. U74140MH112009PTC196108

Nov-2021

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 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 : 26.11.2021	
Sampling Date : 17.11.2021	Date of Analysis completed: 30.11.2021	
Sample Receipt Date : 25.11.2021	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
1.	Particulate Matter size less than 10 μm (PM_{10})	$\mu\text{g}/\text{m}^3$	100	53.4	USEPA - 40 CFR Part 50 (Appendix O)
2.	Particulate Matter size less than 2.5 μm ($\text{PM}_{2.5}$)	$\mu\text{g}/\text{m}^3$	60	13.7	USEPA - 40 CFR Part 50 (Appendix O)
3.	Sulphur Dioxide (SO_2)	$\mu\text{g}/\text{m}^3$	80	15.2	IS 5182 (Part 2): 2001 RA 2017
4.	Nitrogen Dioxide (NO_2)	$\mu\text{g}/\text{m}^3$	80	19.5	IS 5182 (Part 6): 2006 RA 2017
5.	Carbon Monoxide (as CO)*	$\mu\text{g}/\text{m}^3$	4000	455.0	IS 5182 (Part 10) : 1999 RA 2014 (Clause 5.0)
6.	Lead (Pb)*	$\mu\text{g}/\text{m}^3$	1.0	BDL	IS 5182 (Part 22): 2004 RA 2014 (Clause 5.0)
7.	Arsenic (as As) *	$\mu\text{g}/\text{m}^3$	6.0	<0.2	IS 5182 (Part 22): 2004 RA 2014 (Clause 5.0)
8.	Nickel (as Ni) *	$\mu\text{g}/\text{m}^3$	20.0	BDL	IS 5182 (Part 22): 2004 RA 2014 (Clause 5.0)
9.	Mercury (Hg)	$\mu\text{g}/\text{m}^3$	--	<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 $\mu\text{g}/\text{m}^3$
- BDL: Below Detectable Limit
- 24 Hrs sampling

For M/s Nilawar Laboratories,

Renuka Yadav

(Authorized Signatory)

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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 Ref Method : IS 5182 (Part 14) :2000 RA 2010	Sampling Location: At Banjari Temple (Buffer Zone)
Sampled by : GYAN Enviro Representative	Sample Date : 17.11.2021	Environment Condition: Sunny (during sampling)
Sample Receipt Date : 25.11.2021	Latitude : 22.178831 N	Date of Analysis started : 26.11.2021
Longitude : 83.508995	Direction from site : North	Date of Analysis completed: 30.11.2021
	Distance from site : 310 Mtr	Testing Period : 5 Days

Results of Analysis

S.N	Test Parameters	Unit	Permissible Limit	AAQ-2 Result	Test Method
1.	Particulate Matter size less than 10 μm (PM_{10})	$\mu\text{g}/\text{m}^3$	100	50.8	USEPA - 40 CFR Part 50 (Appendix O)
2.	Particulate Matter size less than 2.5 μm ($\text{PM}_{2.5}$)	$\mu\text{g}/\text{m}^3$	60	14.3	USEPA - 40 CFR Part 50 (Appendix O)
3.	Sulphur Dioxide (SO_2)	$\mu\text{g}/\text{m}^3$	80	14.9	IS 5182 (Part 2): 2001 RA 2017
4.	Nitrogen Dioxide (NO_2)	$\mu\text{g}/\text{m}^3$	80	18.2	IS 5182 (Part 6): 2006 RA 2017
5.	Carbon Monoxide (as CO)*	$\mu\text{g}/\text{m}^3$	4000	472.0	IS 5182 (Part 10) : 1999 RA 2014 (Clause 5.0)
6.	Lead (Pb)*	$\mu\text{g}/\text{m}^3$	1.0	<0.01	IS 5182 (Part 22): 2004 RA 2014 (Clause 5.0)
7.	Arsenic (as As) *	$\mu\text{g}/\text{m}^3$	6.0	<0.001	IS 5182 (Part 22): 2004 RA 2014 (Clause 5.0)
8.	Nickel (as Ni) *	$\mu\text{g}/\text{m}^3$	20.0	<0.001	IS 5182 (Part 22): 2004 RA 2014 (Clause 5.0)
9.	Mercury (Hg)	$\mu\text{g}/\text{m}^3$	--	<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 $\mu\text{g}/\text{m}^3$
- BDL: Below Detectable Limit
- 24 Hrs sampling

For M/s Nilawar Laboratories,




Renuka Yadav
(Authorized Signatory)

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Nov-2021

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 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 : 26.11.2021	
Sampling Date : 17.11.2021	Date of Analysis completed: 30.11.2021	
Sample Receipt Date : 25.11.2021	Testing Period : 5 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_{10})	$\mu\text{g}/\text{m}^3$	100	51.9	USEPA - 40 CFR Part 50 (Appendix O)
2.	Particulate Matter size less than 2.5 μm ($\text{PM}_{2.5}$)	$\mu\text{g}/\text{m}^3$	60	15.3	USEPA - 40 CFR Part 50 (Appendix O)
3.	Sulphur Dioxide (SO_2)	$\mu\text{g}/\text{m}^3$	80	15.8	IS 5182 (Part 2): 2001 RA 2017
4.	Nitrogen Dioxide (NO_2)	$\mu\text{g}/\text{m}^3$	80	18.2	IS 5182 (Part 6): 2006 RA 2017
5.	Carbon Monoxide (as CO)*	$\mu\text{g}/\text{m}^3$	4000	465.0	IS 5182 (Part 10) : 1999 RA 2014 (Clause 5.0)
6.	Lead (Pb)*	$\mu\text{g}/\text{m}^3$	1.0	<0.01	IS 5182 (Part 22): 2004 RA 2014 (Clause 5.0)
7.	Arsenic (as As) *	$\mu\text{g}/\text{m}^3$	6.0	<0.001	IS 5182 (Part 22): 2004 RA 2014 (Clause 5.0)
8.	Nickel (as Ni) *	$\mu\text{g}/\text{m}^3$	20.0	<0.001	IS 5182 (Part 22): 2004 RA 2014 (Clause 5.0)
9.	Mercury (Hg)	$\mu\text{g}/\text{m}^3$	--	<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 $\mu\text{g}/\text{m}^3$
- BDL: Below Detectable Limit
- 24 Hrs sampling

For M/s Nilawar Laboratories,

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(Authorized Signatory)

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Nov-2021

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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 Ref Method : IS 5182 (Part 14) :2000 RA 2010	Sampling Location: Nr School, Rampura village (Buffer Zone)	
Sampled by : GYAN Enviro Representative	Sampling Date : 17.11.2021	Environment Condition: Sunny (during sampling)	
Sample Receipt Date : 25.11.2021		Date of Analysis started : 26.11.2021	Date of Analysis completed: 30.11.2021
		Testing Period : 5 Days	
Latitude : 22.162807N		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
1.	Particulate Matter size less than 10 µm (PM ₁₀)	µg/m ³	100	50.0	USEPA - 40 CFR Part 50 (Appendix O)
2.	Particulate Matter size less than 2.5 µm (PM _{2.5})	µg/m ³	60	14.9	USEPA - 40 CFR Part 50 (Appendix O)
3.	Sulphur Dioxide (SO ₂)	µg/m ³	80	15.3	IS 5182 (Part 2): 2001 RA 2017
4.	Nitrogen Dioxide (NO ₂)	µg/m ³	80	19.0	IS 5182 (Part 6): 2006 RA 2017
5.	Carbon Monoxide (as CO)*	µg/m ³	4000	470.0	IS 5182 (Part 10) : 1999 RA 2014 (Clause 5.0)
6.	Lead (Pb)*	µg/m ³	1.0	<0.01	IS 5182 (Part 22): 2004 RA 2014 (Clause 5.0)
7.	Arsenic (as As) *	µg/m ³	6.0	<0.002	IS 5182 (Part 22): 2004 RA 2014 (Clause 5.0)
8.	Nickel (as Ni) *	µg/m ³	20.0	<0.001	IS 5182 (Part 22): 2004 RA 2014 (Clause 5.0)
9.	Mercury (Hg)	µg/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 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	: 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	: 26.11.2021
Sampling Date	: 18.11.2021	Date of Analysis completed:	: 30.11.2021
Sample Receipt Date	: 25.11.2021	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 ₁₀)	$\mu\text{g}/\text{m}^3$	100	51.3	USEPA - 40 CFR Part 50 (Appendix O)
2.	Particulate Matter size less than 2.5 μm (PM _{2.5})	$\mu\text{g}/\text{m}^3$	60	14.6	USEPA - 40 CFR Part 50 (Appendix O)
3.	Sulphur Dioxide (SO ₂)	$\mu\text{g}/\text{m}^3$	80	15.0	IS 5182 (Part 2): 2001 RA 2017
4.	Nitrogen Dioxide (NO ₂)	$\mu\text{g}/\text{m}^3$	80	19.5	IS 5182 (Part 6): 2006 RA 2017
5.	Carbon Monoxide (as CO)*	$\mu\text{g}/\text{m}^3$	4000	470.0	IS 5182 (Part 10): 1999 RA 2014 (Clause 5.0)
6.	Lead (Pb)*	$\mu\text{g}/\text{m}^3$	1.0	<0.01	IS 5182 (Part 22): 2004 RA 2014 (Clause 5.0)
7.	Arsenic (as As)*	$\mu\text{g}/\text{m}^3$	6.0	<0.001	IS 5182 (Part 22): 2004 RA 2014 (Clause 5.0)
8.	Nickel (as Ni)*	$\mu\text{g}/\text{m}^3$	20.0	<0.001	IS 5182 (Part 22): 2004 RA 2014 (Clause 5.0)
9.	Mercury (Hg)	$\mu\text{g}/\text{m}^3$	--	<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
- 24 Hrs sampling

For M/s Nilawar Laboratories,

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CIN No. U74140MH12009PTC196108

Dec-2021

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 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 :31.12.2021
Sampling Date :27.12.2021	Date of Analysis completed: 03.01.2022
Sample Receipt Date :31.12.2021	Testing Period :4 Days
Latitude: 22.169931N	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
1.	Particulate Matter size less than 10 μm (PM ₁₀)	$\mu\text{g}/\text{m}^3$	100	56.6	USEPA - 40 CFR Part 50(Appendix O)
2.	Particulate Matter size less than 2.5 μm (PM _{2.5})	$\mu\text{g}/\text{m}^3$	60	16.7	USEPA - 40 CFR Part 50(Appendix O)
3.	Sulphur Dioxide (SO ₂)	$\mu\text{g}/\text{m}^3$	80	16.6	IS 5182 (Part 2): 2001RA 2017
4.	Nitrogen Dioxide (NO ₂)	$\mu\text{g}/\text{m}^3$	80	20.8	IS 5182 (Part 6): 2006RA 2017
5.	Carbon Monoxide (as CO)*	$\mu\text{g}/\text{m}^3$	4000	466.0	IS 5182 (Part 10) : 1999 RA 2014(Clause 5.0)
6.	Lead (Pb)*	$\mu\text{g}/\text{m}^3$	1.0	BDL	IS 5182 (Part 22): 2004 RA 2014(Clause 5.0)
7.	Arsenic (as As)*	$\mu\text{g}/\text{m}^3$	6.0	<0.2	IS 5182 (Part 22): 2004 RA 2014(Clause 5.0)
8.	Nickel (as Ni)*	$\mu\text{g}/\text{m}^3$	20.0	BDL	IS 5182 (Part 22): 2004 RA 2014(Clause 5.0)
9.	Mercury (Hg)	$\mu\text{g}/\text{m}^3$	--	<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 $\mu\text{g}/\text{m}^3$
- BDL: Below Detectable Limit
- 24 Hrs sampling

For M/s Nilawar Laboratories,


Renuka Yadav
(Authorized Signatory)

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CIN No. U74140MH12009PTC196108

Dec - 2021

Report No.: GE- <u>Nilawar/EMS/2021-22/Dec/50</u>	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 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	Sampling Location: At Banjari Temple (Buffer Zone) Environment Condition: Sunny (during sampling) Date of Analysis started :31.12.2021 Date of Analysis completed: 03.01.2022 Testing Period :4 Days
Latitude : 22.178831N Longitude : 83.508995	Direction from site : North 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_{10})	$\mu\text{g}/\text{m}^3$	100	55.0	USEPA - 40 CFR Part 50(Appendix O)
2.	Particulate Matter size less than 2.5 μm ($\text{PM}_{2.5}$)	$\mu\text{g}/\text{m}^3$	60	18.6	USEPA - 40 CFR Part 50(Appendix O)
3.	Sulphur Dioxide (SO_2)	$\mu\text{g}/\text{m}^3$	80	17.2	IS 5182 (Part 2): 2001RA 2017
4.	Nitrogen Dioxide (NO_2)	$\mu\text{g}/\text{m}^3$	80	20.0	IS 5182 (Part 6): 2006RA 2017
5.	Carbon Monoxide (as CO)*	$\mu\text{g}/\text{m}^3$	4000	459.0	IS 5182 (Part 10) : 1999 RA 2014(Clause 5.0)
6.	Lead (Pb)*	$\mu\text{g}/\text{m}^3$	1.0	<0.01	IS 5182 (Part 22): 2004 RA 2014(Clause 5.0)
7.	Arsenic (as As) *	$\mu\text{g}/\text{m}^3$	6.0	<0.001	IS 5182 (Part 22): 2004 RA 2014(Clause 5.0)
8.	Nickel (as Ni) *	$\mu\text{g}/\text{m}^3$	20.0	<0.001	IS 5182 (Part 22): 2004 RA 2014(Clause 5.0)
9.	Mercury (Hg)	$\mu\text{g}/\text{m}^3$	--	<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 $\mu\text{g}/\text{m}^3$
- BDL: Below Detectable Limit
- 24 Hrs sampling

For M/s Nilawar Laboratories,


Renuka Yagde
(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 : 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 : 31.12.2021
Sampling Date : 27.12.2021	Date of Analysis completed: 03.01.2022
Sample Receipt Date : 31.12.2021	Testing Period : 4 Days
Latitude : 22.161729N	Direction from site : North -West
Longitude : 83.498074E	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_{10})	$\mu\text{g}/\text{m}^3$	100	53.6	USEPA - 40 CFR Part 50(Appendix O)
2.	Particulate Matter size less than 2.5 μm ($\text{PM}_{2.5}$)	$\mu\text{g}/\text{m}^3$	60	17.3	USEPA - 40 CFR Part 50(Appendix O)
3.	Sulphur Dioxide (SO_2)	$\mu\text{g}/\text{m}^3$	80	15.3	IS 5182 (Part 2): 2001RA 2017
4.	Nitrogen Dioxide (NO_2)	$\mu\text{g}/\text{m}^3$	80	21.2	IS 5182 (Part 6): 2006RA 2017
5.	Carbon Monoxide (as CO)*	$\mu\text{g}/\text{m}^3$	4000	462.0	IS 5182 (Part 10) : 1999 RA 2014(Clause 5.0)
6.	Lead (Pb)*	$\mu\text{g}/\text{m}^3$	1.0	<0.01	IS 5182 (Part 22): 2004 RA 2014(Clause 5.0)
7.	Arsenic (as As) *	$\mu\text{g}/\text{m}^3$	6.0	<0.001	IS 5182 (Part 22): 2004 RA 2014(Clause 5.0)
8.	Nickel (as Ni) *	$\mu\text{g}/\text{m}^3$	20.0	<0.001	IS 5182 (Part 22): 2004 RA 2014(Clause 5.0)
9.	Mercury (Hg)	$\mu\text{g}/\text{m}^3$	--	<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 $\mu\text{g}/\text{m}^3$
- BDL: Below Detectable Limit
- 24 Hrs sampling

For M/s Nilawar Laboratories,


Renuka Yadav
(Authorized Signatory)

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CIN No. U74140MH112009PTC196108

Report No.: GE- <u>Nilawar/EMS/2021-22/Dec/50</u>	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: Nr School, Rampura 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 : 31.12.2021
Sampling Date : 27.12.2021	Date of Analysis completed: 03.01.2022
Sample Receipt Date : 31.12.2021	Testing Period : 4 Days
Latitude : 22.162807N	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 ₁₀)	µg/m ³	100	55.1	USEPA - 40 CFR Part 50(Appendix O)
2.	Particulate Matter size less than 2.5 µm (PM _{2.5})	µg/m ³	60	18.4	USEPA - 40 CFR Part 50(Appendix O)
3.	Sulphur Dioxide (SO ₂)	µg/m ³	80	14.8	IS 5182 (Part 2): 2001RA 2017
4.	Nitrogen Dioxide (NO ₂)	µg/m ³	80	19.9	IS 5182 (Part 6): 2006RA 2017
5.	Carbon Monoxide (as CO)*	µg/m ³	4000	495.0	IS 5182 (Part 10) : 1999 RA 2014(Clause 5.0)
6.	Lead (Pb)*	µg/m ³	1.0	<0.01	IS 5182 (Part 22): 2004 RA 2014(Clause 5.0)
7.	Arsenic (as As) *	µg/m ³	6.0	<0.002	IS 5182 (Part 22): 2004 RA 2014(Clause 5.0)
8.	Nickel (as Ni) *	µg/m ³	20.0	<0.001	IS 5182 (Part 22): 2004 RA 2014(Clause 5.0)
9.	Mercury (Hg)	µg/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,



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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 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	Sampling Location: At Durga House (Buffer Zone) Environment Condition: Sunny (during sampling) Date of Analysis started : 31.12.2021 Date of Analysis completed: 03.01.2022 Testing Period : 4 Days
Latitude : 22.166381N Longitude : 83.497756E	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 ₁₀)	µg/m ³	100	54.8	USEPA - 40 CFR Part 50(Appendix O)
2.	Particulate Matter size less than 2.5 µm (PM _{2.5})	µg/m ³	60	18.8	USEPA - 40 CFR Part 50(Appendix O)
3.	Sulphur Dioxide (SO ₂)	µg/m ³	80	14.3	IS 5182 (Part 2): 2001RA 2017
4.	Nitrogen Dioxide (NO ₂)	µg/m ³	80	22.4	IS 5182 (Part 6): 2006RA 2017
5.	Carbon Monoxide (as CO)*	µg/m ³	4000	469.0	IS 5182 (Part 10) : 1999 RA 2014(Clause 5.0)
6.	Lead (Pb)*	µg/m ³	1.0	<0.01	IS 5182 (Part 22): 2004 RA 2014(Clause 5.0)
7.	Arsenic (as As) *	µg/m ³	6.0	<0.001	IS 5182 (Part 22): 2004 RA 2014(Clause 5.0)
8.	Nickel (as Ni) *	µg/m ³	20.0	<0.001	IS 5182 (Part 22): 2004 RA 2014(Clause 5.0)
9.	Mercury (Hg)	µg/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 Yadav
(Authorized Signatory)

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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 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	Test Parameters	Unit	Permissible Limit	AAQ-1 Result	Test Method
1.	Particulate Matter size less than 10 μm (PM_{10})	$\mu\text{g}/\text{m}^3$	100	57.9	USEPA - 40 CFR Part 50 (Appendix O)
2.	Particulate Matter size less than 2.5 μm ($\text{PM}_{2.5}$)	$\mu\text{g}/\text{m}^3$	60	17.2	USEPA - 40 CFR Part 50 (Appendix O)
3.	Sulphur Dioxide (SO_2)	$\mu\text{g}/\text{m}^3$	80	15.3	IS 5182 (Part 2): 2001 RA 2017
4.	Nitrogen Dioxide (NO_2)	$\mu\text{g}/\text{m}^3$	80	19.0	IS 5182 (Part 6): 2006 RA 2017
5.	Carbon Monoxide (as CO)*	$\mu\text{g}/\text{m}^3$	4000	450.0	IS 5182 (Part 10) : 1999 RA 2014 (Clause 5.0)
6.	Lead (Pb)*	$\mu\text{g}/\text{m}^3$	1.0	BDL	IS 5182 (Part 22): 2004 RA 2014 (Clause 5.0)
7.	Arsenic (as As) *	$\mu\text{g}/\text{m}^3$	6.0	<0.2	IS 5182 (Part 22): 2004 RA 2014 (Clause 5.0)
8.	Nickel (as Ni) *	$\mu\text{g}/\text{m}^3$	20.0	BDL	IS 5182 (Part 22): 2004 RA 2014 (Clause 5.0)
9.	Mercury (Hg)	$\mu\text{g}/\text{m}^3$	--	<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 $\mu\text{g}/\text{m}^3$, 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)

Note:

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

Results of Analysis

S.N	Test Parameters	Unit	Permissible Limit	AAQ-2 Result	Test Method
1.	Particulate Matter size less than 10 μm (PM_{10})	$\mu\text{g}/\text{m}^3$	100	57.9	USEPA - 40 CFR Part 50 (Appendix O)
2.	Particulate Matter size less than 2.5 μm ($\text{PM}_{2.5}$)	$\mu\text{g}/\text{m}^3$	60	17.2	USEPA - 40 CFR Part 50 (Appendix O)
3.	Sulphur Dioxide (SO_2)	$\mu\text{g}/\text{m}^3$	80	15.3	IS 5182 (Part 2): 2001 RA 2017
4.	Nitrogen Dioxide (NO_2)	$\mu\text{g}/\text{m}^3$	80	19.0	IS 5182 (Part 6): 2006 RA 2017
5.	Carbon Monoxide (as CO)*	$\mu\text{g}/\text{m}^3$	4000	450.0	IS 5182 (Part 10) : 1999 RA 2014 (Clause 5.0)
6.	Lead (Pb)*	$\mu\text{g}/\text{m}^3$	1.0	BDL	IS 5182 (Part 22): 2004 RA 2014 (Clause 5.0)
7.	Arsenic (as As) *	$\mu\text{g}/\text{m}^3$	6.0	<0.2	IS 5182 (Part 22): 2004 RA 2014 (Clause 5.0)
8.	Nickel (as Ni) *	$\mu\text{g}/\text{m}^3$	20.0	BDL	IS 5182 (Part 22): 2004 RA 2014 (Clause 5.0)
9.	Mercury (Hg)	$\mu\text{g}/\text{m}^3$	--	<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 $\mu\text{g}/\text{m}^3$, **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)

Note:

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Jan-2022

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 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
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_{10})	$\mu\text{g}/\text{m}^3$	100	55.9	USEPA - 40 CFR Part 50 (Appendix O)
2.	Particulate Matter size less than 2.5 μm ($\text{PM}_{2.5}$)	$\mu\text{g}/\text{m}^3$	60	16.4	USEPA - 40 CFR Part 50 (Appendix O)
3.	Sulphur Dioxide (SO_2)	$\mu\text{g}/\text{m}^3$	80	14.1	IS 5182 (Part 2): 2001 RA 2017
4.	Nitrogen Dioxide (NO_2)	$\mu\text{g}/\text{m}^3$	80	20.5	IS 5182 (Part 6): 2006 RA 2017
5.	Carbon Monoxide (as CO)*	$\mu\text{g}/\text{m}^3$	4000	478.0	IS 5182 (Part 10) : 1999 RA 2014 (Clause 5.0)
6.	Lead (Pb)*	$\mu\text{g}/\text{m}^3$	1.0	<0.01	IS 5182 (Part 22): 2004 RA 2014 (Clause 5.0)
7.	Arsenic (as As) *	$\mu\text{g}/\text{m}^3$	6.0	<0.001	IS 5182 (Part 22): 2004 RA 2014 (Clause 5.0)
8.	Nickel (as Ni) *	$\mu\text{g}/\text{m}^3$	20.0	<0.001	IS 5182 (Part 22): 2004 RA 2014 (Clause 5.0)
9.	Mercury (Hg)	$\mu\text{g}/\text{m}^3$	--	<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)

Note:

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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 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 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	: 22.162807 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
1.	Particulate Matter size less than 10 μm (PM_{10})	$\mu\text{g}/\text{m}^3$	100	57.3	USEPA - 40 CFR Part 50 (Appendix O)
2.	Particulate Matter size less than 2.5 μm ($\text{PM}_{2.5}$)	$\mu\text{g}/\text{m}^3$	60	17.0	USEPA - 40 CFR Part 50 (Appendix O)
3.	Sulphur Dioxide (SO_2)	$\mu\text{g}/\text{m}^3$	80	13.9	IS 5182 (Part 2): 2001 RA 2017
4.	Nitrogen Dioxide (NO_2)	$\mu\text{g}/\text{m}^3$	80	18.5	IS 5182 (Part 6): 2006 RA 2017
5.	Carbon Monoxide (as CO)*	$\mu\text{g}/\text{m}^3$	4000	480.0	IS 5182 (Part 10) : 1999 RA 2014 (Clause 5.0)
6.	Lead (Pb)*	$\mu\text{g}/\text{m}^3$	1.0	<0.01	IS 5182 (Part 22): 2004 RA 2014 (Clause 5.0)
7.	Arsenic (as As) *	$\mu\text{g}/\text{m}^3$	6.0	<0.002	IS 5182 (Part 22): 2004 RA 2014 (Clause 5.0)
8.	Nickel (as Ni) *	$\mu\text{g}/\text{m}^3$	20.0	<0.001	IS 5182 (Part 22): 2004 RA 2014 (Clause 5.0)
9.	Mercury (Hg)	$\mu\text{g}/\text{m}^3$	-	<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)

Note:

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



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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 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 : 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 : 22.166381 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_{10})	$\mu\text{g}/\text{m}^3$	100	56.1	USEPA - 40 CFR Part 50 (Appendix O)
2.	Particulate Matter size less than 2.5 μm ($\text{PM}_{2.5}$)	$\mu\text{g}/\text{m}^3$	60	16.9	USEPA - 40 CFR Part 50 (Appendix O)
3.	Sulphur Dioxide (SO_2)	$\mu\text{g}/\text{m}^3$	80	13.2	IS 5182 (Part 2): 2001 RA 2017
4.	Nitrogen Dioxide (NO_2)	$\mu\text{g}/\text{m}^3$	80	20.8	IS 5182 (Part 6): 2006 RA 2017
5.	Carbon Monoxide (as CO)*	$\mu\text{g}/\text{m}^3$	4000	455.0	IS 5182 (Part 10) : 1999 RA 2014 (Clause 5.0)
6.	Lead (Pb)*	$\mu\text{g}/\text{m}^3$	1.0	<0.01	IS 5182 (Part 22): 2004 RA 2014 (Clause 5.0)
7.	Arsenic (as As) *	$\mu\text{g}/\text{m}^3$	6.0	<0.001	IS 5182 (Part 22): 2004 RA 2014 (Clause 5.0)
8.	Nickel (as Ni) *	$\mu\text{g}/\text{m}^3$	20.0	<0.001	IS 5182 (Part 22): 2004 RA 2014 (Clause 5.0)
9.	Mercury (Hg)	$\mu\text{g}/\text{m}^3$	-	<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)

Note:

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CIN No. U74140MH112009PTC196108

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

Results of Analysis

S.N	Test Parameters	Unit	Permissible Limit	AAQ-1 Result	Test Method
1.	Particulate Matter size less than 10 μm (PM_{10})	$\mu\text{g}/\text{m}^3$	100	59.1	USEPA - 40 CFR Part 50 (Appendix O)
2.	Particulate Matter size less than 2.5 μm ($\text{PM}_{2.5}$)	$\mu\text{g}/\text{m}^3$	60	18.8	USEPA - 40 CFR Part 50 (Appendix O)
3.	Sulphur Dioxide (SO_2)	$\mu\text{g}/\text{m}^3$	80	13.0	IS 5182 (Part 2): 2001 RA 2017
4.	Nitrogen Dioxide (NO_2)	$\mu\text{g}/\text{m}^3$	80	16.6	IS 5182 (Part 6): 2006 RA 2017
5.	Carbon Monoxide (as CO)*	$\mu\text{g}/\text{m}^3$	4000	475.0	IS 5182 (Part 10) : 1999 RA 2014 (Clause 5.0)
6.	Lead (Pb)*	$\mu\text{g}/\text{m}^3$	1.0	BDL	IS 5182 (Part 22): 2004 RA 2014 (Clause 5.0)
7.	Arsenic (as As)*	$\mu\text{g}/\text{m}^3$	6.0	<0.2	IS 5182 (Part 22): 2004 RA 2014 (Clause 5.0)
8.	Nickel (as Ni)*	$\mu\text{g}/\text{m}^3$	20.0	BDL	IS 5182 (Part 22): 2004 RA 2014 (Clause 5.0)
9.	Mercury (Hg)	$\mu\text{g}/\text{m}^3$	—	<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 $\mu\text{g}/\text{m}^3$
- BDL: Below Detectable Limit
- 24 Hrs sampling

For M/s Nilawar Laboratories,



Renuka Yadav
(Authorized Signatory)

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2. The results listed referred to the tested samples and applicable parameters only.
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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/Feb/Air /49	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 : 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 : 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
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_{10})	$\mu\text{g}/\text{m}^3$	100	57.8	USEPA - 40 CFR Part 50 (Appendix O)
2.	Particulate Matter size less than 2.5 μm ($\text{PM}_{2.5}$)	$\mu\text{g}/\text{m}^3$	60	16.7	USEPA - 40 CFR Part 50 (Appendix O)
3.	Sulphur Dioxide (SO_2)	$\mu\text{g}/\text{m}^3$	80	12.2	IS 5182 (Part 2): 2001 RA 2017
4.	Nitrogen Dioxide (NO_2)	$\mu\text{g}/\text{m}^3$	80	16.0	IS 5182 (Part 6): 2006 RA 2017
5.	Carbon Monoxide (as CO)*	$\mu\text{g}/\text{m}^3$	4000	480.0	IS 5182 (Part 10) : 1999 RA 2014 (Clause 5.0)
6.	Lead (Pb)*	$\mu\text{g}/\text{m}^3$	1.0	<0.01	IS 5182 (Part 22): 2004 RA 2014 (Clause 5.0)
7.	Arsenic (as As) *	$\mu\text{g}/\text{m}^3$	6.0	<0.001	IS 5182 (Part 22): 2004 RA 2014 (Clause 5.0)
8.	Nickel (as Ni) *	$\mu\text{g}/\text{m}^3$	20.0	<0.001	IS 5182 (Part 22): 2004 RA 2014 (Clause 5.0)
9.	Mercury (Hg)	$\mu\text{g}/\text{m}^3$	-	<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 $\mu\text{g}/\text{m}^3$
- BDL: Below Detectable Limit
- 24 Hrs sampling

For M/s Nilawar Laboratories,


Renuka Yagay
(Authorized Signatory)

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Feb-2022

Report No.: GE- <u>Nilawar/EMS/2021-22/Feb/Air /50</u>		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 : 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 : 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 : 22.161729 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_{10})	$\mu\text{g}/\text{m}^3$	100	57.1	USEPA - 40 CFR Part 50 (Appendix O)
2.	Particulate Matter size less than 2.5 μm ($\text{PM}_{2.5}$)	$\mu\text{g}/\text{m}^3$	60	17.3	USEPA - 40 CFR Part 50 (Appendix O)
3.	Sulphur Dioxide (SO_2)	$\mu\text{g}/\text{m}^3$	80	12.9	IS 5182 (Part 2): 2001 RA 2017
4.	Nitrogen Dioxide (NO_2)	$\mu\text{g}/\text{m}^3$	80	17.8	IS 5182 (Part 6): 2006 RA 2017
5.	Carbon Monoxide (as CO)*	$\mu\text{g}/\text{m}^3$	4000	455.0	IS 5182 (Part 10) : 1999 RA 2014 (Clause 5.0)
6.	Lead (Pb)*	$\mu\text{g}/\text{m}^3$	1.0	<0.01	IS 5182 (Part 22): 2004 RA 2014 (Clause 5.0)
7.	Arsenic (as As) *	$\mu\text{g}/\text{m}^3$	6.0	<0.001	IS 5182 (Part 22): 2004 RA 2014 (Clause 5.0)
8.	Nickel (as Ni) *	$\mu\text{g}/\text{m}^3$	20.0	<0.001	IS 5182 (Part 22): 2004 RA 2014 (Clause 5.0)
9.	Mercury (Hg)	$\mu\text{g}/\text{m}^3$	—	<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 $\mu\text{g}/\text{m}^3$
- BDL: Below Detectable Limit
- 24 Hrs sampling

For M/s Nilawar Laboratories,


Renuka Yadav
(Authorized Signatory)

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Report No.: GE-Nilawar/EMS/2021-22/Feb/Air /51		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 : Ambient Air Sample	Sampling Ref Method : IS 5182 (Part 14) :2000 RA 2010	Sampling Location: Nr School, Rampura village (Buffer Zone)
Sampled by : GYAN Enviro Representative	Sampling Date : 21.02.2022	Environment Condition: Sunny (during sampling)
Sample Receipt Date : 23.02.2022	Latitude : 22.162807 N	Date of Analysis started : 25.02.2022
Longitude : 83.504231 E	Longitude : 83.504231 E	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 ₁₀)	$\mu\text{g}/\text{m}^3$	100	55.6	USEPA - 40 CFR Part 50 (Appendix O)
2.	Particulate Matter size less than 2.5 μm (PM _{2.5})	$\mu\text{g}/\text{m}^3$	60	17.2	USEPA - 40 CFR Part 50 (Appendix O)
3.	Sulphur Dioxide (SO ₂)	$\mu\text{g}/\text{m}^3$	80	12.1	IS 5182 (Part 2): 2001 RA 2017
4.	Nitrogen Dioxide (NO ₂)	$\mu\text{g}/\text{m}^3$	80	15.8	IS 5182 (Part 6): 2006 RA 2017
5.	Carbon Monoxide (as CO)*	$\mu\text{g}/\text{m}^3$	4000	492.0	IS 5182 (Part 10) : 1999 RA 2014 (Clause 5.0)
6.	Lead (Pb)*	$\mu\text{g}/\text{m}^3$	1.0	<0.01	IS 5182 (Part 22): 2004 RA 2014 (Clause 5.0)
7.	Arsenic (as As)*	$\mu\text{g}/\text{m}^3$	6.0	<0.002	IS 5182 (Part 22): 2004 RA 2014 (Clause 5.0)
8.	Nickel (as Ni)*	$\mu\text{g}/\text{m}^3$	20.0	<0.001	IS 5182 (Part 22): 2004 RA 2014 (Clause 5.0)
9.	Mercury (Hg)	$\mu\text{g}/\text{m}^3$	—	<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 $\mu\text{g}/\text{m}^3$
- BDL: Below Detectable Limit
- 24 Hrs sampling

For M/s Nilawar Laboratories,



Renuka Yadav
(Authorized Signatory)

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CIN No. U74140MH112009PTC196108

Report No.: GE-Nilawar/EMS/2021-22/Feb/Air /52	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 : 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 : 83.497756 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_{10})	$\mu\text{g}/\text{m}^3$	100	58.4	USEPA - 40 CFR Part 50 (Appendix O)
2.	Particulate Matter size less than 2.5 μm ($\text{PM}_{2.5}$)	$\mu\text{g}/\text{m}^3$	60	17.7	USEPA - 40 CFR Part 50 (Appendix O)
3.	Sulphur Dioxide (SO_2)	$\mu\text{g}/\text{m}^3$	80	12.6	IS 5182 (Part 2): 2001 RA 2017
4.	Nitrogen Dioxide (NO_2)	$\mu\text{g}/\text{m}^3$	80	15.5	IS 5182 (Part 6): 2006 RA 2017
5.	Carbon Monoxide (as CO)*	$\mu\text{g}/\text{m}^3$	4000	460.0	IS 5182 (Part 10): 1999 RA 2014 (Clause 5.0)
6.	Lead (Pb)*	$\mu\text{g}/\text{m}^3$	1.0	<0.01	IS 5182 (Part 22): 2004 RA 2014 (Clause 5.0)
7.	Arsenic (as As)*	$\mu\text{g}/\text{m}^3$	6.0	<0.001	IS 5182 (Part 22): 2004 RA 2014 (Clause 5.0)
8.	Nickel (as Ni)*	$\mu\text{g}/\text{m}^3$	20.0	<0.001	IS 5182 (Part 22): 2004 RA 2014 (Clause 5.0)
9.	Mercury (Hg)	$\mu\text{g}/\text{m}^3$	—	<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 $\mu\text{g}/\text{m}^3$
- BDL: Below Detectable Limit
- 24 Hrs sampling

For M/s Nilawar Laboratories,


Reshika Yadav
(Authorized Signatory)

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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 : GYAN Enviro Representative	Date of Analysis started : 16.03.2022
Sampling Date : 11.03.2022	Date of Analysis completed: 21.03.2022
Sample Receipt Date : 14.03.2022	Testing Period : 5 Days
Latitude: 22.169931N	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
1.	Particulate Matter size less than 10 μm (PM_{10})	$\mu\text{g}/\text{m}^3$	100	69.5	USEPA - 40 CFR Part 50(Appendix O)
2.	Particulate Matter size less than 2.5 μm ($\text{PM}_{2.5}$)	$\mu\text{g}/\text{m}^3$	60	34.5	USEPA - 40 CFR Part 50(Appendix O)
3.	Sulphur Dioxide (SO_2)	$\mu\text{g}/\text{m}^3$	80	24.0	IS 5182 (Part 2): 2001RA 2017
4.	Nitrogen Dioxide (NO_2)	$\mu\text{g}/\text{m}^3$	80	20.4	IS 5182 (Part 6): 2006RA 2017
5.	Carbon Monoxide (as CO)*	$\mu\text{g}/\text{m}^3$	4000	560.0	IS 5182 (Part 10) : 1999 RA 2014(Clause 5.0)
6.	Lead (Pb)*	$\mu\text{g}/\text{m}^3$	1.0	BDL	IS 5182 (Part 22): 2004 RA 2014(Clause 5.0)
7.	Arsenic (as As) *	$\mu\text{g}/\text{m}^3$	6.0	<0.2	IS 5182 (Part 22): 2004 RA 2014(Clause 5.0)
8.	Nickel (as Ni) *	$\mu\text{g}/\text{m}^3$	20.0	BDL	IS 5182 (Part 22): 2004 RA 2014(Clause 5.0)
9.	Mercury (Hg)	$\mu\text{g}/\text{m}^3$	-	<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 $\mu\text{g}/\text{m}^3$
- BDL: Below Detectable Limit
- 24 Hrs sampling

For M/s Nilawar Laboratories,


Reneka Yadav
(Authorized Signatory)

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

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March-2022

CIN No. U74140MH112009PTC196108

Report No.: GE-Nilawar/EMS/2021-22/Mar/105	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: Tammar, 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 : 16.03.2022
Sampling Date : 11.03.2022	Date of Analysis completed: 21.03.2022
Sample Receipt Date : 14.03.2022	Testing Period : 5 Days
Latitude : 22.178831N	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_{10})	$\mu\text{g}/\text{m}^3$	100	60.3	USEPA - 40 CFR Part 50(Appendix O)
2.	Particulate Matter size less than 2.5 μm ($\text{PM}_{2.5}$)	$\mu\text{g}/\text{m}^3$	60	27.4	USEPA - 40 CFR Part 50(Appendix O)
3.	Sulphur Dioxide (SO_2)	$\mu\text{g}/\text{m}^3$	80	14.8	IS 5182 (Part 2): 2001RA 2017
4.	Nitrogen Dioxide (NO_2)	$\mu\text{g}/\text{m}^3$	80	19.0	IS 5182 (Part 6): 2006RA 2017
5.	Carbon Monoxide (as CO)*	$\mu\text{g}/\text{m}^3$	4000	504.0	IS 5182 (Part 10) : 1999 RA 2014(Clause 5.0)
6.	Lead (Pb)*	$\mu\text{g}/\text{m}^3$	1.0	<0.01	IS 5182 (Part 22): 2004 RA 2014(Clause 5.0)
7.	Arsenic (as As) *	$\mu\text{g}/\text{m}^3$	6.0	<0.001	IS 5182 (Part 22): 2004 RA 2014(Clause 5.0)
8.	Nickel (as Ni) *	$\mu\text{g}/\text{m}^3$	20.0	<0.001	IS 5182 (Part 22): 2004 RA 2014(Clause 5.0)
9.	Mercury (Hg)	$\mu\text{g}/\text{m}^3$	-	<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 $\mu\text{g}/\text{m}^3$
- BDL: Below Detectable Limit
- 24 Hrs sampling

For M/s Nilawar Laboratories,


Renuka Yeddy
(Authorized Signatory)

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CIN No. U74140MH112009PTC196108

March-2022

Report No.: GE-Nilawar/EMS/2021-22/Mar/106	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 Ref Method : IS 5182 (Part 14):2000 RA 2010 Sampled by : GYAN Enviro Representative Sampling Date : 11.03.2022 Sample Receipt Date : 14.03.2022	Sampling Location: At Khamaria 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 Days
Latitude : 22.161729N Longitude : 83.498074E	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 ₁₀)	$\mu\text{g}/\text{m}^3$	100	66.7	USEPA - 40 CFR Part 50(Appendix O)
2.	Particulate Matter size less than 2.5 μm (PM _{2.5})	$\mu\text{g}/\text{m}^3$	60	30.5	USEPA - 40 CFR Part 50(Appendix O)
3.	Sulphur Dioxide (SO ₂)	$\mu\text{g}/\text{m}^3$	80	16.7	IS 5182 (Part 2): 2001RA 2017
4.	Nitrogen Dioxide (NO ₂)	$\mu\text{g}/\text{m}^3$	80	19.4	IS 5182 (Part 6): 2006RA 2017
5.	Carbon Monoxide (as CO)*	$\mu\text{g}/\text{m}^3$	4000	515.0	IS 5182 (Part 10) : 1999 RA 2014(Clause 5.0)
6.	Lead (Pb)*	$\mu\text{g}/\text{m}^3$	1.0	<0.01	IS 5182 (Part 22): 2004 RA 2014(Clause 5.0)
7.	Arsenic (as As) *	$\mu\text{g}/\text{m}^3$	6.0	<0.001	IS 5182 (Part 22): 2004 RA 2014(Clause 5.0)
8.	Nickel (as Ni) *	$\mu\text{g}/\text{m}^3$	20.0	<0.001	IS 5182 (Part 22): 2004 RA 2014(Clause 5.0)
9.	Mercury (Hg)	$\mu\text{g}/\text{m}^3$	—	<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 $\mu\text{g}/\text{m}^3$
- BDL: Below Detectable Limit
- 24 Hrs sampling

For M/s Nilawar Laboratories,


Renuka Yadao
(Authorized Signatory)

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March-2022

CIN No. U74140MH112009PTC196108

Report No.: GE-Nilawar/EMS/2021-22/Mar/107	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 Ref Method : IS 5182 (Part 14) :2000 RA 2010 Sampled by :GYAN Enviro Representative Sampling Date :12.03.2022 Sample Receipt Date : 14.03.2022	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
Latitude : 22.162807N Longitude : 83.504231E	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 ₁₀)	µg/m ³	100	62.6	USEPA - 40 CFR Part 50(Appendix O)
2.	Particulate Matter size less than 2.5 µm (PM _{2.5})	µg/m ³	60	30.8	USEPA - 40 CFR Part 50(Appendix O)
3.	Sulphur Dioxide (SO ₂)	µg/m ³	80	19.9	IS 5182 (Part 2): 2001RA 2017
4.	Nitrogen Dioxide (NO ₂)	µg/m ³	80	23.4	IS 5182 (Part 6): 2006RA 2017
5.	Carbon Monoxide (as CO)*	µg/m ³	4000	603.0	IS 5182 (Part 10) : 1999 RA 2014(Clause 5.0)
6.	Lead (Pb)*	µg/m ³	1.0	<0.01	IS 5182 (Part 22): 2004 RA 2014(Clause 5.0)
7.	Arsenic (as As) *	µg/m ³	6.0	<0.002	IS 5182 (Part 22): 2004 RA 2014(Clause 5.0)
8.	Nickel (as Ni) *	µg/m ³	20.0	<0.001	IS 5182 (Part 22): 2004 RA 2014(Clause 5.0)
9.	Mercury (Hg)	µg/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 Yaday
(Authorized Signatory)

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CIN No. U74140MH112009PTC196108

March-2022

Report No.: GE-Nilawar/EMS/2021-22/Mar/108	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 Ref Method : IS 5182 (Part 14) :2000 RA 2010 Sampled by : GYAN Enviro Representative Sampling Date : 12.03.2022 Sample Receipt Date : 14.03.2022	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
Latitude : 22.166381N Longitude : 83.497756E	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 ₁₀)	$\mu\text{g}/\text{m}^3$	100	59.1	USEPA - 40 CFR Part 50(Appendix O)
2.	Particulate Matter size less than 2.5 μm (PM _{2.5})	$\mu\text{g}/\text{m}^3$	60	16.5	USEPA - 40 CFR Part 50(Appendix O)
3.	Sulphur Dioxide (SO ₂)	$\mu\text{g}/\text{m}^3$	80	17.8	IS 5182 (Part 2): 2001RA 2017
4.	Nitrogen Dioxide (NO ₂)	$\mu\text{g}/\text{m}^3$	80	17.2	IS 5182 (Part 6): 2006RA 2017
5.	Carbon Monoxide (as CO)*	$\mu\text{g}/\text{m}^3$	4000	548.0	IS 5182 (Part 10) : 1999 RA 2014(Clause 5.0)
6.	Lead (Pb)*	$\mu\text{g}/\text{m}^3$	1.0	<0.01	IS 5182 (Part 22): 2004 RA 2014(Clause 5.0)
7.	Arsenic (as As) *	$\mu\text{g}/\text{m}^3$	6.0	<0.001	IS 5182 (Part 22): 2004 RA 2014(Clause 5.0)
8.	Nickel (as Ni) *	$\mu\text{g}/\text{m}^3$	20.0	<0.001	IS 5182 (Part 22): 2004 RA 2014(Clause 5.0)
9.	Mercury (Hg)	$\mu\text{g}/\text{m}^3$	-	<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 $\mu\text{g}/\text{m}^3$
- **BDL: Below Detectable Limit**
- **24 Hrs sampling**

For M/s Nilawar Laboratories,


Renuka Yadav
(Authorized Signatory)

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MeEF RECOGNIZED ENVIRONMENTAL LABORATORY
VALIDITY UPTO 08.02.2022



Ref. No: MEPL/Lab/Cons/EMS/ACL-Gare/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			
	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	45.1

*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 SMS Envirocare Ltd,



Authorized Signatory

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OHSAS 18001 : 2007 C No. : 49121C/001/UKS

Site Off. : CHWD1, Mandwa, Butibori Ind. Estate, Butibori, Nagpur.
Landline M. : 8805947186, 9923037416

Head Office : 20, IT Park, Parsodi, Nagpur - 440 022, Maharashtra (India)
Ph. 0712 - 7125000, 7125200 Fax : 0712 - 6665100, Web. : www.smsl.co.in
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MoEF RECOGNIZED ENVIRONMENTAL LABORATORY
VALIDITY UPTO 08.02.2022



Ref. No:MEPL/Lab/Cons/EMS/ACL-Gare/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			
	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

*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)

For SMS Enviro Care Ltd,

Authorized Signatory

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Ph. 0712 - 7125000, 7125200 Fax : 0712 - 8665100, Web : www.smsl.co.in
CIN: U40105MH2005PLC150710

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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		
Sample Description	: Adequate Measures (Noise Levels) Sampling	Sampling Location: N5-N8
Ref Method	: User's Manual SLM 100	Environment Condition: Sunny (during sampling)
Sampled by	: GYAN Enviro Representative	Date of Analysis started : --
Sampling Date	: 14.05.2021	Date of Analysis completed: --
Sample Receipt Date	: NA	Testing Period : ---

Results of Measurement

Details	Monitoring Locations			
	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

*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 Yadav
(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		
Sample Description	: Adequate Measures (Noise Levels) Sampling	Sampling Location: NI-N4
Ref Method	: User's Manual SLM 100	Environment Condition: Sunny (during sampling)
Sampled by	: GYAN Enviro Representative	Date of Analysis started : --
Sampling Date	: 14.05.2021	Date of Analysis completed: --
Sample Receipt Date	: NA	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)	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

*All values are in dB(A)

Location Details:

- o NA-5: Khamaria village (Buffer Zone)
- o 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,

Renuka Yadav
(Authorized Signatory)

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June 2021



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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 : Adequate Measures (Noise Levels) Sampling	Sampling Location: NI-N4
Ref Method : User's Manual SLM 100	Environment Condition: Sunny (during sampling)
Sampled by : GYAN Enviro Representative	Date of Analysis started : --
Sampling Date : 29.06.2021	Date of Analysis completed: --
Sample Receipt Date : NA	Testing Period : ---

Results of Measurement

Details	Monitoring Locations			
	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

*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 Yadav
(Authorized Signatory)

Note -

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CIN No. U74140MH112009PTC196108

June 2021

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 : Adequate Measures (Noise Levels) Sampling	Sampling Location: N5-N8
Ref Method : User's Manual SLM 100	Environment Condition: Sunny (during sampling)
Sampled by : GYAN Enviro Representative	Date of Analysis started : --
Sampling Date : 29.06.2021	Date of Analysis completed: --
Sample Receipt Date : NA	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)	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

*All values are in dB(A)

Location Details:

- o NA-5: Khamaria village (Buffer Zone)
- o 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,

Renuka Yadav
(Authorized Signatory)

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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 : Adequate Measures (Noise Levels)	Sampling Location: N1-N4	
Sampling Ref Method : IS 5182 (Part 14) :2000 RA 2010	Environment Condition: Sunny (during sampling)	
Sampled by : GYAN Enviro Representative	Date of Analysis started : --	
Sampling Date : 31.07.2021	Date of Analysis completed: --	
Sample Receipt Date : NA	Testing Period : ---	

Results of Measurement

Details	Monitoring Locations			
	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,

Renuka Yadav
(Authorized Signatory)

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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	: Adequate Measures (Noise Levels)	Sampling Location: N5-N8
Sampling Ref Method	: IS 5182 (Part 14) :2000 RA 2010	Environment Condition: Sunny (during sampling)
Sampled by	: GYAN Enviro Representative	Date of Analysis started : --
Sampling Date	: 30.07.2021	Date of Analysis completed: --
Sample Receipt Date	: NA	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	42.1	44.0	43.9

*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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CIN No. U74140MH112009PTC196108

Aug 2021

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 Location: N1-N4
Sampling Ref Method : IS 5182 (Part 14) :2000 RA 2010	Environment Condition: Sunny (during sampling)
Sampled by : GYAN Enviro Representative	Date of Analysis started :--
Sampling Date : 31.08.2021	Date of Analysis completed: --
Sample Receipt Date : NA	Testing Period :--

Results of Measurement

Details	Monitoring Locations			
	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

*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 Yadav
(Authorized Signatory)

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Aug 2021

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 Location: N5-N8
Sampling Ref Method : IS 5182 (Part 14) :2000 RA 2010	Environment Condition: Sunny (during sampling)
Sampled by : GYAN Enviro Representative	Date of Analysis started :--
Sampling Date : 31.08.2021	Date of Analysis completed: --
Sample Receipt Date : NA	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	42.5

*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,


Renuka Yagav
(Authorized Signatory)

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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: Tannar, Dist: Raigarh-496111	
Sample Description : Adequate Measures (Noise Levels)	Sampling Location: NI-N4
Sampling Ref Method : IS 5182 (Part 14) :2000 RA 2010	Environment Condition: Sunny (during sampling)
Sampled by : GYAN Enviro Representative	Date of Analysis started : --
Sampling Date : 29.09.2021	Date of Analysis completed: --
Sample Receipt Date : NA	Testing Period : ---

Results of Measurement

Details	Monitoring Locations			
	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 Yadav
(Authorized Signatory)

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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 : Adequate Measures (Noise Levels)	Sampling Location: N5-N8
Sampling Ref Method : IS 5182 (Part 14) :2000 RA 2010	Environment Condition: Sunny (during sampling)
Sampled by : GYAN Enviro Representative	Date of Analysis started : --
Sampling Date : 29.09.2021	Date of Analysis completed: --
Sample Receipt Date : NA	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)	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	34.3

*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,


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06-2021

Report No.: GE-Nilawar/EMS/2021/Oct/38		Report Date: 12.11.2021
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	Sampling Location: NI-N4	
Method : IS 5182 (Part 14) :2000 RA 2010	Environment Condition: Sunny (during sampling)	
Sampled by : GYAN Enviro Representative	Date of Analysis started : --	
Sampling Date : 21.10.2021	Date of Analysis completed: --	
Sample Receipt Date : NA	Testing Period : --	

Results of Measurement

Details	Monitoring Locations			
	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	42.2

*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 Yadav
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Oct 2021

Report No.: GE-Nilawar/EMS/2021/Oct/38		Report Date: 12.11.2021
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	Sampling Location: N5-N8	
Method : IS 5182 (Part 14) :2000 RA 2010	Environment Condition: Sunny (during sampling)	
Sampled by : GYAN Enviro Representative	Date of Analysis started : --	
Sampling Date : 21.10.2021	Date of Analysis completed: --	
Sample Receipt Date : NA	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)	49.9	47.2	51.5	48.4
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:

- 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,

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CIN No. U74140MH112009PTC196108

Nov-2021

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: NI-N4	
Sampling Ref Method : IS 5182 (Part 14) :2000 RA 2010	Environment Condition: Sunny (during sampling)	
Sampled by : GYAN Enviro Representative	Date of Analysis started : --	
Sampling Date : 18.11.2021	Date of Analysis completed: --	
Sample Receipt Date : NA	Testing Period : ---	

Results of Measurement

Details	Monitoring Locations			
	NA-1	NA-2	NA-3	NA-4
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	43.4

*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,

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Note:

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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 : Adequate Measures (Noise Levels)	Sampling Location: N5-N8	
Sampling Ref Method : IS 5182 (Part 14) :2000 RA 2010	Environment Condition: Sunny (during sampling)	
Sampled by : GYAN Enviro Representative	Date of Analysis started : --	
Sampling Date : 18.11.2021	Date of Analysis completed: --	
Sample Receipt Date : NA	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)	51.8	46.9	53.4	50.6
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:

- o NA-5: Khamaria village (Buffer Zone)
- o 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,

Renuka Yadav
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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 : Adequate Measures (Noise Levels)	Sampling Location: NI-N4
Sampling Ref Method : IS 5182 (Part 14) :2000 RA 2010	Environment Condition: Sunny (during sampling)
Sampled by :GYAN Enviro Representative	Date of Analysis started :--
Sampling Date :21.10.2021	Date of Analysis completed: --
Sample Receipt Date : NA	Testing Period :--

Results of Measurement

Details	Monitoring Locations			
	NA-1	NA-2	NA-3	NA-4
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	41.5

*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 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 : Adequate Measures (Noise Levels)	Sampling Location: N5-N8
Sampling Ref Method : IS 5182 (Part 14) :2000 RA 2010	Environment Condition: Sunny (during sampling)
Sampled by : GYAN Enviro Representative	Date of Analysis started :-
Sampling Date : 21.10.2021	Date of Analysis completed: -
Sample Receipt Date : NA	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)	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,


Renuka Yaday
(Authorized Signatory)

Note -

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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 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)
Sampled by : GYAN Enviro Representative	Date of Analysis started : --
Sampling Date : 25.01.2022	Date of Analysis completed: --
Sample Receipt Date : NA	Testing Period : ---

Results of Measurement

Details	Monitoring Locations			
	NA-1	NA-2	NA-3	NA-4
Standard Limit (CPCB)	75.0 (day hours)			
Observed Value (Day time)	57.3	55.0	66.2	58.6
Standard Limit (CPCB)	70.0 (night hours)			
Observed Value (night time)	39.9	36.7	43.4	40.8

*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,

Renuka Yadav
(Authorized Signatory)

Note:

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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 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 sampling)
Sampled by : GYAN Enviro Representative	Date of Analysis started : --
Sampling Date : 25.01.2022	Date of Analysis completed: --
Sample Receipt Date : NA	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)	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:

- o NA-5: Khamaria village (Buffer Zone)
- o NA-6: Nr School, Rampura village (Buffer Zone)
- o NA-7: At Durga House (Buffer Zone)
- o 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- <u>Nilawar/EMS/2021-22/Feb/AN /53</u>		Report Date: 07.03.2022
Name & Address of the Customer: <u>M/s. Ambuja Cements Limited,</u> Add: Gare Palma IV/8 Coal Mine, Vill: Khamaria, PO: Tamnar, Dist: Raigarh-496111		
Sample Description : Adequate Measures (Noise Levels)	Sampling Location: NI-N4	
Sampling Ref Method : IS 5182 (Part 14) :2000 RA 2010	Environment Condition: Sunny (during sampling)	
Sampled by : GYAN Enviro Representative	Date of Analysis started : --	
Sampling Date : 22.02.2022	Date of Analysis completed: --	
Sample Receipt Date : NA	Testing Period : ---	

Results of Measurement

Details	Monitoring Locations			
	NA-1	NA-2	NA-3	NA-4
Standard Limit (CPCB)	75.0 (day hours)			
Observed Value (Day time)	58.0	57.2	67.9	59.5
Standard Limit (CPCB)	70.0 (night hours)			
Observed Value (night time)	38.6	37.7	41.0	39.3

*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 Yeddy
(Authorized Signatory)

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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: Tannar, 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 sampling)
Sampled by : GYAN Enviro Representative	Date of Analysis started : --
Sampling Date : 25.01.2022	Date of Analysis completed: --
Sample Receipt Date : NA	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)	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:

- o NA-5: Khamaria village (Buffer Zone)
- o 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,


Renuka Yadav
(Authorized Signatory)

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CIN No. U74140MH112009PTC196108

Report No.: GE-Nilawar/EMS/2021-22/Mar/109	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 : Adequate Measures (Noise Levels)	Sampling Location: N1-N4
Sampling Ref Method : IS 5182 (Part 14) :2000 RA 2010	Environment Condition: Sunny (during sampling)
Sampled by :GYAN Enviro Representative	Date of Analysis started :--
Sampling Date :11.03.2022	Date of Analysis completed: --
Sample Receipt Date : NA	Testing Period :---

Results of Measurement

Details	Monitoring Locations			
	NA-1	NA-2	NA-3	NA-4
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	40.0

*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 Yadav
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March-2022

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	
Sample Description : Adequate Measures (Noise Levels)	Sampling Location: N5-N8
Sampling Ref Method : IS 5182 (Part 14) :2000 RA 2010	Environment Condition: Sunny (during sampling)
Sampled by : GYAN Enviro Representative	Date of Analysis started :--
Sampling Date : 11.03.2022	Date of Analysis completed: --
Sample Receipt Date : NA	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)	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,


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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	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
2019-20	Mango, Guava, Neem, Moringa, Karanj, Amla, Jamun, Jackfruit, Kaju	4230	Village Khamaria, Karwahi, Lamdarha, Milupara,
2020-21	Sagaun, Shisham, Gulmohar, Karanj, Jamun	2227	Village Khamaria, Karwahi, Lamdarha, Milupara,
2021-22	Khamer, Teak, Mango, Java Plum, Gulmohar, Amla, Bahuda	1530	Village Khamaria, Karwahi, Lamdarha, Milupara,
2022 to Till Date	Neem, Karanj, Mango	500	Near School, Anganwadi, Gram Panchyat