



Ref: ACL (NIg)/EMD/2023/05/93

30th May 2023

Additional Director,
Regional Office (North Central),
Ministry of Environment, Forests & Climate Change,
Government of India
25, Subhash Road, Dehradun – 248001

Sub: Half Yearly compliance of conditions of Environmental Clearance.

Dear Sir,

This has reference to the Environmental Clearance granted to our plant by MoEFCC vide letter no J-11011/173/2008-IA-II(I) dated 22 August 2008.

We are enclosing a point-wise status report from October 2022 to March 2023 on compliance of the stipulated environmental conditions/safeguards of Environmental clearance letter referred above.

Apart from this we are also submitting the report along with all supporting data as soft copy through e-mail address: moef.ddn@gov.in.

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Hope you will find the information in order.

Thanking you.

Yours faithfully,

For Ambuja Cements Limited (Unit: Nalagarh)

**Authorized Signatory** 

Encl: As above

CC - The Member Secretary, - Hard copy H.P. State Pollution Control Board, Him Parivesh', Phase-III, New Shimla, Shimla-171009, HP

Regional Officer,
HP State Pollution Control Board,
Baddi, Distt. Solan (H.P.)

Hard Copy

Ambuja Cements Limited

Unit - Nalaagarh Village Navagraon, P.O. Jajhra, Tehsil Nalagarh, District Solan HP 174101, India

CIN: L26942GJ1981PLC004717

Registered Office:
Adani Corporate House
Shantigram, S. G. Highway
Khodiyar, Ahmedabad – 382 421
Gujarat, India
Ph +91 79-2555 5555

## Compliance of Conditions of Environment Clearance

Name of the Project: Ambuja Cements Ltd., Village Navagraon, P.O. Jajhra, Tehsil Nalagarh, Distt. Solan (H.P.)

Clearance letter No.: J-11011/173/2008-IA-II(I) dated 22 August 2008

Period of Compliance: October 2022 to March 2023

SI.	. Condition Compliance Status				
No		Compliance Status			
A	Specific Conditions				
i	TTV				
1	F The control of t	processod standards			
	various sources shall not exceed 50 mg/Nm3.				
	The fugitive emissions during loading and	0			
	unloading shall be suitably controlled. Bag	Bag House have been installed. Stack			
	house/ filters shall be provided to control air				
	emissions to achieve the prescribed	the prescribed limit. Last monitoring			
	standards.	was done by M/s Environ Tech			
	- Tag	Laboratory (a NABL accredited			
		laboratory and recognized under			
1		Environment (Protection) Act, 1986)			
	*,	on 14th March 2023. Reports are			
		attached as Annexure 1.			
ii	The locations of ambient air quality	6 manual monitoring stations have			
	monitoring stations shall be set up as per	already been fixed as per guidance of			
	statutory requirement in consultation with	HP State Pollution Control Board for			
	the Himachal Pradesh Pollution Control Board	carrying out Ambient Air Quality			
	(HPPCB) and additional stations shall be	Monitoring out of which four are			
	installed, if required, in the downwind	within plant and 2 outside plant. Last			
	direction as well as where maximum ground	monitoring done by M/s Environ Tech			
	level concentrations are anticipated.	Laboratory (a NABL accredited			
		laboratory and recognized under			
		Environment (Protection) Act, 1986)			
		on 14 <sup>th</sup> - 15 <sup>th</sup> March 2023. All the			
		results were within the prescribed			
		limits. Reports are attached as			
		Annexure 2.			
iii	The company shall obtain permission for	Required permission has been			
-	drawl of 400 m3/day ground water from the	obtained and a copy of permission			
	Central Ground Water Authority	letter has already been submitted to			
	Got white				

	Ground Water Board and copy of the same	the Regional office of MoEF, at
	shall be submitted to the ministry and its	Chandigarh vides our letter dated 22nd
	Regional Office at Chandigarh within three	June 2010.
	months from the date of issue of this letter.	,
iv	Green belt shall be developed at least in 33%	Greenbelt has been developed in and
10	of plant area to mitigate the effect of fugitive	around the plant premises with native
	emissions all around the plant as per the	tree species in accordance with CPCB
8	guidelines of Central Pollution Control Board.	guidelines. Total Green cover is more
	guidennes of central 1 onation donition boats.	than 35% of the total area.
	The project authorities shall transport the	All the raw materials and Cement are
V	raw materials and cement in covered means	transported in tarpaulin covered
	to avoid fugitive emission during transport.	trucks to avoid fugitive emission
	to avoid fugitive emission during transport	during transportation.
	y to be accompagative and the	Clinker manufacturing facility has not
vi	No clinker manufacturing facility shall be	been installed. This is a standalone
	installed by the company	clinker grinding unit
	All the recommendations mentioned in the	All recommendations made in the
vii	CREP guidelines for the cement plants shall be	charter of Corporate Responsibility
	_	for Environment Protection (CREP)
	followed and complied.	for the cement plants have been
}	6	implemented and attached as
		Annexure - 3.
-	GENERAL CONDITIONS	ARRANGEMENT
В	The project authorities shall strictly adhere to	All stipulations of SPCB/ State
i	a a second	
	the stipulations of the SPCB/ state government or any other statutory body.	bodies are being complied and shall
	government of any other statutory body.	be taken care in future also.
ii	All other necessary statutory clearances from	
11	the concerned Departments including "No	from HPPCB vides letter no.
	Objection Certificate" from the Himachal	
	Pradesh Pollution Control Board (HPPCB)	,
	shall be obtained prior to commencement of	
	construction and/ or operation.	Clearances like single window
	construction and, or operation.	clearance, consent under Air and
	•	Water Acts have also been obtained.
iii	No further expansion or modifications in the	
111	plant shall be carried out without prior	
	approval of the Ministry of Environment and	The state of the s
	Forests. In case of deviations or alterations in	
	the project proposal from those submitted to	
	this Ministry for clearance, a fresh reference	
	shall be made to the Ministry to assess the	
	Similar De Middle to this Amanagay of States	Top Wallawarth
		* (Distr. Soran : HP)
		(1) (1) (1) (2)

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		adequacy of conditions imposed and to add	1
		additional environmental protection	1
		measures required, if any.	
	iv	At no time, the emissions shall exceed the	Process interlocking system has been
		prescribed limits. In the event of failure of any	
		pollution control system adopted by the unit,	trip off the mill in case of failure of
		the unit shall be immediately put out of	pollution control system.
		operation and shall not be restarted until the	ponution control system.
		desired efficiency has been achieved.	,
	v	TO I	Committee
			The similarion (Boz and Nox) is not
		particulate matter along with RSPM levels	
		from various process units shall conform to	S S S S S S S S S S S S S S S S S S S
		the standards prescribed by the concerned	o and a start of the start of t
		authorities from time to time.	but in case of Ambient air quality they
			are being monitored. All the values
-		*	are within the prescribed norms.
	VI	The company shall undertake following Waste	Minimization measures:
		Reuse of by-products from the process as raw	No by product is being generated
		materials or as raw material substitutes in	from process.
		other processes.	8
		Use of "Close pneumatic" system for transport	All fine materials are transported in
		of fine material.	-1
		*	leakage/spillage.
Г	)	All venting systems shall be connected with	All
		dust arresting equipments.	
		S - Inthese	venting systems are equipped with Bag Filters.
r		Dust collect in pollution control equipments	
		shall be reused.	Dust collected in pollution control
		ondi be reased.	equipment is automatically recycled
-,	 ⁄ii	Fugitive emissions in the work zone	in the respective process.
,	V 1.1	- work Zone	Fugitive emissions in work zone
		environment, product and raw materials	environment, product and raw
		storage area shall be regularly monitored. The	materials storage area is regularly
		emissions shall conform to the limits imposed	monitored and are conforming to the
		by the State Pollution Control Boards/Central	prescribed norms.
		Pollution Control Board.	
V	riii	The overall noise levels in all around the plant	All possible noise control measures
		area shall be kept well within the standards	have been taken. Ambient Noise is
		by providing noise control measures	regularly monitored and Noise Level
		including acoustic hoods, silencers, enclosures	monitoring done by M/s Environ Tech
		etc. on all sources of noise generation. The	Laboratory (a NABL accredited
		ambient noise levels shall conform to the	laboratory recognized under
		standards prescribed under Environment	Environment (Protection) Act 1986)
		lo XIII	Nied 1900)
		E William III	
		are all 1	Page 3 of 5
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		1 2002 Durante and
	(Protection) Act, 1986 Rules, 1989 viz. 75 dBA	on 14th March, 2023. Reports are
	(daytime) and 70 dBA (nighttime).	attached as <u>Annexure - 4.</u>
ix	The company shall develop rainwater	Three rainwater harvesting structures
	harvesting structures to harvest the runoff	with proper drainage system have
	water for recharge of ground water.	been made for collection of rainwater
1	*	to recharge the ground water.
х	Occupational health and safety measures shall	Occupational Health & Safety is given
	be undertaken. Periodic monitorial for	the topmost priority in our company.
	exposure to dust on the workers should be	An occupational health centre has
	conducted and records maintained including	been set up with qualified doctor and
	health records of the workers. The company	a pharmacist. Regular medical
	shall engage a doctor who is trained in	checkup has been conducted for the
	occupational health.	workers as well as employees on
		annual basis and keeping proper
	×	records. The company has set up a
nd)	v.	separate OH&S Department that
	a	ensures strict adherence to all safety
		norms.
xi	The company shall undertake eco-	Ambuja Cement Foundation (ACF) has
	developmental measures including	been set up by the company for
	community welfare measures in the project	looking after Eco-developmental and
	area for the overall improvement of the	community welfare measures in the
	environment. The eco-development plan	project area and is working since the
	should be submitted to the SPCB within three	inception of the project.
	months of receipt of this letter for approval.	100
xii	A separate Environmental Management Cell	To look after the environmental
	equipped with full fledged laboratory facilities	management and monitoring, the
	shall be set up to carry out the Environmental	company has set up a separate
1	Management and Monitoring functions.	Environmental Management Cell.
xiii	The project authorities shall earmark Rs. 2.20	Though a sum of Rs.2.20 Crores was
	Crores to implement the conditions stipulated	earmarked to implement the
	by the Ministry of Environment and Forests as	conditions stipulated by the Ministry
	well as the State Government. An	of Environment and Forests as well as
	implementation schedule for all the	
	conditions stipulated herein shall be	
	submitted to the Ministry's Regional Office.	Environment Protection measures
	The funds so provided shall not be diverted	
	for any other purpose.	
xiv	The implementation of the project vis-à-vis	Six monthly compliance reports are
	environmental action plans shall be	being submitted regularly. Report has
	monitored by the concerned Regional Office	also been posted on the company
	of the Ministry/SPCB/CPCB. A six-monthly	
		A COOPY WAS

	compliance status report shall be submitted	
	to monitoring agencies and shall be posted on	a sayle a literature
	the website of the Company.	
XV	The project proponent shall inform the public	The condition has been complied
	that the project has been accorded	with. The same had been advertised in
	environmental clearance by the Ministry and	two local news papers (The Tribune
	copies of the clearance letter are available	and Dainik Bhaskar) dated 29 <sup>th</sup>
	with the SPCB and may also be seen at	August 2008 in Hindi and the same
	Website of the Ministry at	had been forwarded to Regional Office
	http://envfor.nic.in. This shall be advertised	of the Ministry, Chandigarh vides our
	within seven days from the date of issue of the	letter dated 9th September 2008.
	clearance letter, at least in two local	
	newspapers that are widely circulated in the	.
	region of which one should be in the	
	Vernacular language of the locality and a copy	
	of the same shall be forwarded to the	
	concerned Regional Office of the Ministry.	
xvi	The project authorities shall inform the	The project was approved by the state
	Regional Office as well as the Ministry, the	govt. on March 11, 2008; EC was
	date of financial closure and final approval of	granted by MoEF on August 22, 2008.
	the project by the concerned authorities and	The project activities at site were
	the date of start of project.	formally started in January 2009.
		Consent to Operate was issued by
,		State Pollution Control Board on 23 <sup>rd</sup>
		March 2010 and production started
	7	on 27th March 27, 2010.

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## TEST REPORT



DISPATCH No:-ETL/DSP/23 3402

M/s AMBUJA CEMENT LIMITED (UNIT- NALAGARH) VILLAGE NAVAGRAON, P.O JAJHRA TEH. NALAGARH, DISTRICT SOLAN

		ETL/44/2023/G/232809	Report Date	29.03.2023	
Your Ref. No		2800943057/NE29/07.03.2023	Type of sample	Process Stack	
Sample C	ode given by Customer	Nil	Date of sampling	14.03.2023	
Sampling	Location	Stack of Vertical Roller Milt (Intside)	Date of Sample Receipt	15.03.2023	
Sample C	ollected By	K.K.Mishra, Field Officer	Sample I.D.	ETL/32/2023/G/2809	
Sampling	procedure	ETL/STP/26	Date of test	15.03.2023 - 29.03.2023	
1	I to be seen that it is	TECHNICAL DAT			
1	Instrument Used for San	pling	VSSI		
2	Source of Emission		Process Stack of Vertical Roller Mill(Inside)		
3	Fuel used in source		Furnace oil		
4	Type of stack		Round of Metal		
5	Velocity of fuel gases		8.9 m/s		
6	Sampling Duration		35 min.		
7 Ambient air temperature			29°C		
8 Stack temperature		, , , , , , , , , , , , , , , , , , , ,	84°C		
9 Stack height from ground level		i level	54 meter (GL)		
10 Diameter of stack			1.0 meter		
11 No. of traverse point selected		. 1	01		

S. NO	PARAMETER	RESULT (mg/Nm <sup>3)</sup>	Limits (mg/Nm³) CPCB-2010	TEST METHOD
L	Particulate Matter, mg/Nm3	8.7	30	IS:11255(Pt -1):2003 reaffirmed 2014
2.	Sulphur Dioxide (as SO <sub>2</sub> ), mg/Nm <sup>3</sup>	8.3		IS:11255(Pt -2):2003 reaffirmed 2014
3.	Oxide of Nitrogen(NOx as NO <sub>2</sub> ), mg/Nm <sup>3</sup>	40.5		IS:11255(Pt-7):2005 reaffirmed 2017

Note:

The test report refers only to tested sample and applicable parameters.

This report can neither be used as evidence in the court of law nor can it be used in part or full in any media without prior

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The sample will be destroyed after Thirty days from the date of issue of test report unless otherwise specified. ments Un

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Plot No. C-101, Industrial Area, Phase-VII Sector 73, Mohali, Punjab - 160059 Mob. 94640-00081, 94172-20081, 94172-10081, (O) 94630-00081, 0172-4630081 GSTIN: 03BPEPS9693P1ZV, PAN No. BPEPS9693P

## TEST REPORT

DISPATCH No:-ETL/DSP/ 23 3 4 0 2

M/s AMBUJA CEMENT LIMITED (UNIT- NALAGARH) VILLAGE NAVAGRAON, P.O JAJHRA TEH. NALAGARH, DISTRICT SOLAN

	ADESH-174101	ETL/44/2023/G/232809	Report Date	29,03.2023
Report No.         ETL/44/202           Your Ref. No         2800943057		2800943057/NE29/07.03.2023	Type of sample	Process Stack
C1- C1	given by Customer	Nil	Date of sampling	14.03.2023
Sample Code g		Stack of Vertical Roller Mill ( Intside)	Date of Sample Receipt	15.03.2023
Sample Collec		K.K.Mishra, Field Officer	Sample I.D.	ETL/32/2023/G/2809
Sampling proc		ETL/STP/26	Date of test	15.03.2023 - 29.03.2023
aamping proc		TECHNICAL DA	TA	
		PART-B	8	
1	Instrument Used for Samp		VSSI	
2	Source of Emission		Process Stack of Vertical Roller Mill(Inside)	
3	Fuel used in source	19 134	Furnace oil	
4	Type of stack		Round of Metal	
5	Velocity of fuel gases		8.9 m/s	
- 6	Sampling Duration	13.	35 min.	
<del> </del>	Ambient air temperature		29ºC	
8 Stack temperature		84°C		
9 Stack helight from ground level		level	54 meter (GL)	
10 Diameter of stack			1.0 meter	
11	No. of traverse point selec	ted	01	

				The state of the s
S.	PARAMETER	RESULT	Limits	TEST METHOD
NO.	20	(mg/Nm <sup>3)</sup>	(mg/Nm <sup>3)</sup>	
	350		CPCB-2010	D 00 1 2002
1	Carbon Monoxide, (as CO)	53		IS 13270:1992 Reaffirmed 2003

Note:

The test report refers only to tested sample and applicable parameters.

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This report can neither be used as evidence in the court of law nor can it be used in part or full in any media without prior 2.

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**END OF REPORT \*\*** 

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## TEST REPORT

DISPATCH No:-ETL/DSP/23 3401

M/s AMBUJA CEMENT LIMITED (UNIT- NALAGARH) VILLAGE NAVAGRAON, P.O JAJHRA TEH. NALAGARH, DISTRICT SOLAN

HIMACHAL PRADESH-174101



Report N	0,	ETL/44/2023/G/232810	Report Date	29.03,2023	
Your Ref. No		2800943057/NB29/07.03,2023	Type of sample	Process Stack	
Sample Co	ode given by Customer	Nil	Date of sampling	14.03.2023	
Sampling		Stack of Vertical Roller Mill ( Outside)	Date of Sample Receipt	15.03.2023	
	ollected By	K.K.Mishra, Field Officer	Sample I.D.	ETL/32/2023/G/2810	
Sampling	procedure	ETL/STP/26	Date of test	15.03.2023 - 29.03.2023	
		TECHNICAL DAT	rA .		
		PART-A			
1	Instrument Used for Samp	oling   \	VSSI		
2	Source of Emission	I	Process Stack of Vertical Roller Mill(Outside)		
3	Fuel used in source	1	Electricity		
44	Type of stack		Round of Metal		
5	Velocity of fuel gases	8	8.7 m/s		
6	Sampling Duration	3	34 min.		
7	7 Ambient air temperature		29°C		
8	8 Stack temperature		78°C		
9	9 Stack height from ground level		54 meter (GL)		
10			LO meter		
11	11 No. of traverse point selected		01		
			7-4		

S. NO.	PARAMETER	RESULT (mg/Nm <sup>31</sup>	Limits (mg/Nm³) CPCB-2010	TEST METHOD
1.	Particulate Matter, mg/Nm3	11.9	30	IS:11255(Pt-1):2003 reallirmed 2014
2.	Sulphur Dioxide (as SO <sub>2</sub> ), mg/Nm <sup>3</sup>	7.1	***	IS:11255(Pt-2):2003 reaffirmed 2014
3.	Oxide of Nitrogen (NOx as NO2), mg/Nm <sup>3</sup>	39.2	c>>	IS:11255(Pt-7):2005 reaffirmed 2017

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The sample will be destroyed after Thirty days from the date of issue of test report unless otherwise specified.

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Walagast pistt, Solan Ha PIN-17670

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Environ Tech Laboratorics

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Plot No. C-101, Industrial Area, Phase-VII Sector 73, Mohali, Punjab - 160059 Mab. 94640-00081, 94172-20081, 94172-10081, (O) 94630-00081, 0172-4630081 GSTIN: 03BPEPS9693P1ZV, PAN No. BPEPS9693P

### TEST REPORT

DISPATCH No:-ETL/DSP/23 3401

m/s ambuja cement limited (Unit- Nalagarh) Village Navagraon, p.o jajhra Teh. Nalagarh, district Solan Himachal Pradesh-174101

Report No.	ETL/44/2023/G/232810	Report Date	29.03.2023
Your Ref. No	2800943057/NE29/07.03.2023	Type of sample	Process Stack
Sample Code given by Customer	Nil	Date of sampling	14.03.2023
Sampling Location	Stack of Vertical Roller Mill [ Outside]	Date of Sample Receipt	15.03.2023
Sample Collected By	K.K.Mishra, Field Officer	Sample LD.	ETL/32/2023/G/2810
Sampling procedure	ETL/STP/26	Date of test	15.03.2023 - 29.03.2023

		TECHNICAL DATA PART-B
1	Instrument Used for Sampling	VSSI
2	Source of Emission	Process Stack of Vertical Roller Mill(Outside)
3	Fuel used in source	Electricity
4	Type of stack	Round of Metal
5	Velocity of fuel gases	8.7 m/s
6	Sampling Duration	34 min.
7	Ambient air temperature	29°C
8	Stack temperature	78°C
9	Stack height from ground level	54 meter (GL)
10	Diameter of stack	1.0 meter
11	No. of traverse point selected	ni

S. NO.	PARAMETER	RESULT (mg/Nm²)	Limits (mg/Nm <sup>3)</sup> CPCB-2010	TEST METHOD
1.	Carbon Monoxide, (as GO)	68		IS 13270:1992 Reaffirmed 2003

### Note:

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2. This report can neither be used as evidence in the court of law nor can it be used in part or full in any media without prior

permission.

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Technical Manager Environ Texts Laborate Gen

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## TEST REPORT

ETL/44/2023/G/232811

2800943057/NE29/07.03 2023

DISPATCH No:-ETL/DSP/23 3403

Report No.

Your Ref. No

M/s AMBUJA CEMENT LIMITED(UNIT- NALAGARH) VILLAGE NAVAGRAON, P.O JAJHRA TEH. NALAGARH, DISTRICT SOLAN HIMACHAL PRADESH-174101



29.03.2023

Process Stack

Sample Code given by Customer Nil		Date of sampling	14.03.2023		
Sampling Location Process Stack of Packing p  [Packer no.2]		Process Stack of Packing plant (Packer no.2)	t Date of Sample Receipt 15.03.2023		
Sample Collected By K.K.Mishra, Field Officer		K.K.Mishra, Field Officer	Sample kD. ETL/32/2023/G/281		
Sampling procedure ETL/S		ETL/STP/26	Date of test	15.03.2023 - 29.03.2023	
		TECHNICAL D	ATA		
1	Instrument Used for Sann	pling	VSSI		
2	Source of Emission		Process Stack of Packing plant (Packer no.2)		
3	Fuel used in source		Electricity		
4	Type of stack		Round of Metal		
5	Velocity of fuel gases		8.9 m/s		
6	Sampling Duration .		35 min		
7	Ambient air temperature		29°C		
В	Stack temperature		86°C		
9	Stack beight from ground	level	31,6 meter (GL)		
10	Diameter of stack		1.0 meter		
11	11 No. of traverse point selected		01		

Report Date

Type of sample

S. NO	PARAMETER	RESULT (mg/Nm <sup>3)</sup>	Limits (mg/Nm <sup>2)</sup>	TEST METHOD	
1.	Particulate Matter, mg/Nm3	12.7	CPCB-2010 30	IS:11255(Pt -1):2003 reaffirmed 2014	

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I .The test report refers only to tested sample and applicable parameters.

2. This report can neither be used as evidence in the court of law nor can it be used in part or full in any media without prior permission.

3. The sample will be destroyed after Thirty days from the date of issue of tools, ort unless otherwise specified. ments (10

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AJEEFSINGHSAH Technical Manager Environ Tech Laboratories

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## TEST REPORT

DISPATCH No:-ETL/DSP/ 23 33 9 9



M/s AMBUJA CEMENT LIMITED (UNIT- NALAGARH)
VILLAGE NAVAGRAON, P.O JAJHRA
TEH. NALAGARH, DISTRICT SOLAN
HIMACHAL PRADESH-174101

Report No.	ADESH-174101	ETL/44/2023/G/232812	Report Date	29.03.2023	
Your Ref. No		2800943057/NE29/07.03.2023	Type of sample	Process Stack	
Sample Code	given by Customer	Nil	Date of sampling	14.03.2023	
Sampling Location Process Stack of Packing plant [Packer no.1]		Date of Sample Receipt	15.03.2023		
		K.K.Mishra, Field Officer	Sample I.D.	ETL/32/2023/G/2H12	
Sample Colle		ETL/STP/26	Date of test	15.03.2023 - 29.03.2023	
1	Instrument Used for Samp	ling	VSSI Process Stack of Packing plant	(Packer no.1)	
<u>1</u>	Source of Emission	ling	Process Stack of Packing plant (Packer no.1) Electricity		
- 2	Fuel used in source				
3	Type of stack		Round of Metal		
<del></del>	4 Type of stack 5 Velocity of fuel gases		8.8 m/s		
		34 min.			
- 6			34 min.	*	
6 7	Sampling Duration		34 min. 29°C		
			29℃ 72°C		
7	Sampling Duration Amblentair temperature	level	29℃		

5. NO.	PARAMETER	RESULT (mg/Nm³)	Limits (mg/Nm <sup>3)</sup> CPCB-2010	TEST METHOD
1.	Particulate Matter, mg/Nm3	11.6		IS:11255(Pt -1):2003 reaffirmed 2014

1.0 meter

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Note:

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Stack height from ground level

Diameter of stack No. of traverse point selected

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permission.

The sample will be destroyed after Thirty days from the date of issue of test report unless otherwise specified.





(Authorized Signatory)

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Environ Tech Laboratories
Page 1 of 1





## TEST REPORT



DISPATCH NOI-ETL/DSP/23 3404

M/s Ambuja cement limited (unit- nalagarh) VILLAGE NAVAGRAON, P.O JAJHRA TEH, NALAGARH, DISTRICT SOLAN HIMACHAL PRADESH-174101

Report No.	ETL/44/2023/G/232813	Report Date	29,03,2023
Your Ref. No	2800943057/NE29/07.03.2023	Type of sample	Process Stack
Sample Code given by Customer	NII	Date of sampling	14.03.2023
Sampling Location	Process Stack of Clinker Tippler ( Bag Filter no. 1)	Date of Sample Receipt	15,03.2023
Sample Collected By	K.K.Mishra, Field Officer	Sample I.D.	ETL/32/2023/G/2813
Sampling procedure	ETL/STP/26	Date of test	15.03.2023 - 29.03.2023
	TECHNICAL DAT	A	

1	Instrument Used for Sampling	VSSI	
2	Source of Emission	Process Stack of Clinker Tippler ( Bag Filter no.1)	
3	Fuel used in source	Electricity	
4	Type of stack	Round of Metal	
5	Velocity of fuel gases	9.3 m/s	
6	Sampling Duration	31 min.	
7	Ambient air temperature	29%	
8	Stack temperature	66°C	
9	Stack height from ground level	32 meter (GL)	
10	Diameter of stack	1.0 meter	
11	No. of traverse point selected	01	

NO		RESULT (mg/Nm³)	Limits (mg/Nm <sup>2)</sup>	TEST METHOD
1. Pai	rticulate Matter, mg/Nm3	14.3	CPCB-2010	IS: 11255(Pt -1):2003 reaffirmed 2014

The test report refers only to tested sample and applicable parameters.

This report can neither be used as evidence in the court of law nor can it be used in part or full in any media without prior

The sample will be destroyed after Thirty days from the date of issue of test report unless otherwise specified.



\*\* END OF REPORT \*\*

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MoEF & CC Recognized, OHSAS ISO 45001:2018 Plot No. 6-101, Industrial Area, Phase VII, Sector 73, Mohali, Punjab - 160059 Mob. 94640-00081, 94172-20081, 94172-10081, (O) 94630-00081, 0172-4630081 GSTIN: 03BPEPS9693P1ZV, PAN No. BPEPS9693P



TEST REPORT

DISPATCH No:-ETL/DSP/23 3 4 00



M/s AMBUJA CEMENT LIMITED (UNIT- NALAGARH) VILLAGE NAVAGRAON, P.O JAJHRA TEH. NALAGARH, DISTRICT SOLAN

RTL/44/2023/G/232814	Report Date	29.03.2023	
2800943057/NE29/07.03.2023	Type of sample	Process Stack	
NI	Date of sampling	14.03.2023	
Process Stack of Clinker Tippler	Date of Sample Receipt	15.03.2023	
	Sample I.D.	ETL/32/2023/G/2814	
	Date of test	15.03.2023 - 29.03.2023	
3 · 23 · .	<u> </u>		
	VSSI		
impang	Process Stack of Clinker Tippler (Bag Filter no.2)		
·			
ıre	39 <sub>0</sub> C		
	58°C		
ınd level	32 meter (GL)		
	1.0 meter		
	Nil Process Stack of Clinker Tippler ( Bag Filter no.2) K.K.Mishra, Field Officer ETL/STP/26 TECHNICAL D/	2800943057/NE29/07.03.2023  Type of sample  Nil Date of sampling Process Stack of Clinker Tippler (Bag Filter no. Z)  K.K.Mishra, Field Officer Sample 1.D.  ETL/STP/26 Date of test  TECHNICAL DATA  mpling VSSI Process Stack of Clinker Tipple Electricity Round of Metal 9.1 m/s 31 min 129°C 58°C 32 meter (GL)	

				TEST METHOD
- e	PARAMETER	RESULT	Limits	LESI WELLIOU
NO.	1 Partition 1 Day	(mg/Nm³)	(mg/Nm³)	
No.		,	CPCB-2010	3
1.	Particulate Matter, mg/Nm3	13,6	30	IS:11255(Pt-1):2003 reaffirmed 2014

01

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permission.

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Diameter of stack No. of traverse point selected



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Plot No. C-101, Industrial Area, Phase VII, Sector 73, Mohall, Punjab - 160059 Mob. 94640-00081, 94172-20081, 94172-10081, (O) 94630-00081, 0172-4630081 GSTIN: 03BPEPS9693P1ZV, PAN No. BPEPS9693P





### TEST REPORT

DISPATCH No:-ETL/DSP/23 33 89

To M/s AMBUJA CEMENT LIMITED (UNIT-NALAGARH) VILLAGE NAVAGRAON, P.O JAJHRA TEH. NALAGARH, DISTRICT SOLAN HIMACHAL PRADESH-174101

Report No. Customer Ref. No	ETL/44/2023/G/232793	Report Date	29.03.2023
	2800943057/NE29/07.03.2023	Type of Sample	Ambient Air
Sample Code Given by Customer	NIL	Date of Sampling	14.03.2023 -15.03.2023
Sampling Location Sample Collected By	Labour Hutment towards Jujims	Date of Sample Receipt	15.03.2023
Sampling Procedure	K.K.Mishra , Field Officer	Sample LD.	ETL/32/2023/2793
C. S sacratic	ETL/STP/27	Date of testing	15.03.2023 -29.03.2023

S.No					
	TECHNICAL DATA				
1.	Location of Sampling Station [PART	·A]			
2		Station no.1 (Labour Hutment towards Jujhru)			
2	Instrument Used for Sampling	RDS, PM25 , Sampler & Gaseous Sampler			
3	Source of Sampling	Ambient Air			
4	Temperature of Sampling Location	30°C			
5	Environmental Condition	Max temp. 32°C			
		Min temp. 15 °C			
6	Flow Rate of Gaseous Sampling	Clear sky, wind direction West to South			
7	Time Period for Sampling	0.2 LPM			
8	Volume of air Sampled(m³)	1440 Min			
	rotone of an partipled(m <sup>o</sup> )	1.39			

S.No.	PARAMETERS	RESULTS	STANDARD	DETECTION LIMIT	
1.	Respirable Suspended Particulate Matter(			SELECT GAR PARTS	TEST METHOD
	PM <sub>10</sub> )	85.3	100.0 µg/m <sup>3</sup> .	47.	IS:5182(Pt-23):2006, Reaffirmed 2017
2.	Sulphur Dioxide (SO <sub>2</sub> )				
		9.1	80.0 µg/m³	-	IS:5182(Pt-2): 2001, Reaffirmed 2017
3.	Nitrogen Dioxide (NO <sub>2</sub> )	23.4	72.0		(a) (b)
		23.4	80.0 μg/m <sup>3</sup>	_	IS:5182(Pt-6):2006, Reaffirmed 2017
th.	Fine Particulate Matter ( PM <sub>2.5</sub> )	42.1	60.0 µg/m <sup>3</sup>		
			and hely the	-	IS: 5182(Pt-24):2019

Note:

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Plot No. C-101, Industrial Area, Phase-VII Sector 73, Mohali, Punjab - 160059 Mob. 94640-00081, 94172-20081, 94172-10081, (O) 94630-00081, 0172-4630081 GSTIN: 03BPEPS9693P1ZV, PAN No. BPEPS9693P

TEST REPORT

DISPATCH No:-ETL/DSP/23 3389

M/s AMBUJA CEMENT LIMITED (UNIT- NALAGARH) VILLAGE NAVAGRAON, P.O JAJHRA TEH. NALAGARH, DISTRICT SOLAN HIMACHAL PRADESH-174101

Report	No	ETL/44/2023/G/232793	Report Date	29.03.2023		
		2800943057/NE29/07.03.2023	Type of Sample	Ambient Air		
Sample Code Given by Customer NIL		NIL	Date of Sampling	14.03.2023 -15.03.2023		
Samuli	ng Location	Labour Hutment towards Jujhru	Date of Sample Receipt	15.03.2023		
	Collected By	K.K.Mishra , Field Officer	Sample LD:	ETL/32/2023/2793		
	g Procedure	ETL/STP/27	Date of testing	15.03.2023 -29.03.2023		
S.No			IICAL DATA ART-B)			
1	Location of Sampling Static	213	Station no.1 (Labour Humaent towards Jujhru			
2	Instrument Used for Samplin	g	RDS, PM25, Sampler & Gaseous Sampler			
3	Source of Sampling		Ambient Air			
4	Temperature of Sampling Lo	cation	30°C			
- 5	Environmental Condition	% ± 1	Max temp, 32°C			
		. 1	Min temp. 15°C			
	1	- ask	Clear sky, wind direction West to South			
6	Flow Rate of Gaseous Sampling		1 LPM & 2LPM			
7	Time Period for Sampling		1440 Min			
- 8	Volume of air Sampled(m3)	3	1.39	•		

Sr.	PARAMETERS	RESULTS	STANDARD	DETECTION LIMIT	TEST METHOD
No.	CO	BDL	4.0 mg/m <sup>2</sup> (1 hr)	0.5 μg/m <sup>3</sup>	IS:5182(P-10) Jodine Pentauxide method
,	Nickel (Ni)	BDL	20.0 ng/m³	€5 ng/m³	IS 5182(Pt-26):2020
3	Arsenic (As)	BDL	6.0 ng/m³	5.0 ng/m <sup>3</sup>	IS 518Z(Pt-26):2020
4	· Lead (Pb)	Buti	1.0 µg/m³	0:1 ng/m <sup>3</sup>	IS 5182(Pt-26):2020
5	Benzene (CoHo)	BDL	5.0 µg/m²	0.5 μg/m³	IS 5182(Pt-11):2006
6	Benzo(a)pyrene (BaP)	BDL	1.0 ng/nt <sup>3</sup>	1.0 ng/m³	IS 5182(Pt-12):2004
7	Ammonia (NH <sub>3</sub> )	BDL	400.0 µg/m <sup>3</sup>	20 μg/m <sup>3</sup>	IS 5182(Pt-25):2018
8	Ozone (O <sub>3</sub> )	BDL	180.0 μg/m³ (1 hr)	5.0 μg/m³	CPCB Guideline

Note:

BDL denotes below detection limit

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2. This report can neither be used as evidence in the court of law nor can it be used in part or full in any media without prior permission.

3. The sample will be destroyed after thirty days from the date of issue of test report unless otherwise specified.

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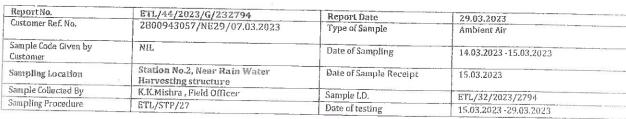




TEST REPORT

DISPATCH No:-ETL/DSP/233390

M/s AMBUJA CEMENT LIMITED (UNIT- NALAGARH) VILLAGENAVAGRAON, P.O JAJHRA TEH. NALAGARH, DISTRICT SOLAN HIMACHAL PRADESH-174101



SNo		TECHNICAL DATA (PART-A)		
1	Location of Sampling Station	Station No.2, Near Rain Water Harvesting structure		
2	Instrument Used for Sampling	RDS, PM25, Sampler & Gaseous Sampler		
3	Source of Sampling	Ambient Air		
4	Temperature of Sampling Location	30°C		
5 .	Environmental Condition	Max temp. 32° C Min temp. 15° C		
6	Flow Rate of Gaseous Sampling	Clear sky, wind direction West to South		
7	Time Period for Sampling	0.2 LPM 1440 Min		
8	Volume of air Sampled(m³)	1.43		

S.No.	PARAMETERS	RESULTS	STANDARD	DETECTION LIMIT	TEST METHOD
1.	Respirable Suspended Particulate Matter( PM:: )	83.7	100.0 µg/m³	-	IS:5182(Pt-23]:2006, Reaffirmed 2017
2.	Sulphur Dioxide (SO2)	9.3	80.0 µg/m <sup>3</sup>		IS:5182(Pt-2): 2001, Reaffirmed 2017
3,	Nitrogen Dioxide (NO <sub>2</sub> )	22.5	80.0 µg/m³		IS:5182(Pt-6):2006, Reaffirmed 2017
4.	Fine Particulate Matter ( PM <sub>2.5</sub> )	41.3	60.0 µg/m³	-	IS: S182(Pt-24):2019

The test report refers only to tested sample and applicable parameters.

This report can neither be used as evidence in the court of law nor can it be used in part or full in any media without prior permission. The sample will be describe a determine the date of issue of test report unless otherwise specified.

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Plot No. C-101, Industrial Area, Phase-VII Sector 73, Mohali, Punjab - 160059 Mob. 94640-00081, 94172-20081, 94172-10081, (O) 94630-00081, 0172-4630081 GSTIN: 03BPEPS9693P1ZV, PAN No. BPEPS9693P

TEST REPORT

DISPATCH No:-ETL/DSP/23 339の

To M/s ambuja cement limited (unit- nalagarh) Village navagraon, p.o jajhra Teh. nalagarh, district solan Himachal pradesh-174101

Report No.	ETL/44/2023/G/232794	Report Date	29.03.2023	
Customer Ref. No.	2800943057/NE29/07.03.2023	Type of Sample	Ambient Air	
Sample Code Given by Customer	NIL.	Date of Sampling	14.03.2023 -15.03.2023	
Sampling Location	Station No.2, Near Rain Water Harvesting structure	Date of Sample Receipt	15.03.2023	
Sample Collected By	K.K.Mishra , Fleld Officer	Sample I.D.	ETL/32/2023/2794	
Sampling Procedure	ETL/STP/27	Date of testing	15.03.2023 -29.03.2023	

S.No	(PART-E)					
1	Location of Sampling Station	Station No.2 Near Rain Water Harvesting structure				
2	Instrument Used for Sampling	RDS, PM2.5 , Sampler & Gaseous Sampler				
3	Source of Sampling	Ambient Air				
4	Temperature of Sampling Location	30 °C				
5	Environmental Condition	Max temp. 32°C				
		Min temp. 15 ° C				
	76. (2)	Clear sky, wind direction West to South				
6	Flow Rate of Gaseous Sampling	1 LPM & 2LPM				
7	Time Period for Sampling	1440 Min				
8	Volume of air Sampled(m³)	1.43				

Sr. No.	PARAMETERS	RESULTS	STANDARD	DETECTION LIMIT	TEST METHOD
1	CO	BDL	4.0 mg/m <sup>3</sup> (1 lir)	0.5 µg/m³	IS:5182 (P-10) loding Pentaoxide method
2	Nickel (Ni)	BDL	20.0 ng/m <sup>3</sup>	15 ng/m³	IS 5182(Pt-26):2020
3	Arsenic (As)	BDL	6.0 ng/m³	5.0 ng/m <sup>3</sup>	IS 5182(Pt-26):2020
4	Lead (Pb)	BDI.	1.0 µg/m <sup>3</sup>	0.1 ng/m <sup>3</sup>	IS 5182(Pt-26):2020
5	Benzene (C <sub>6</sub> H <sub>6</sub> )	BDL	5.0 ug/ın⁴	0,5 μg/m <sup>3</sup>	IS 5182(Pt-11):2006
6	Benzo(a)pyrene (BaP)	BDL	L0 ng/m <sup>3</sup>	1.0 ng/m <sup>3</sup>	IS 5182(Pt-12):2004
7	Ammonia (NH <sub>3</sub> )	BPL	400.0 μg/m <sup>2</sup>	20 μg/m³	IS 5182(Pt-25):2018
8	Ozone (O <sub>3</sub> )	BDL	180.0 µg/m³ (1 hr)	. 5.0 μg/m³	CPCB Guideline

Note:

**BDL denotes below detection limit** 

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2. This report can neither be used as evidence in the court of law nor can it be used in part or full in any media without prior permiss

3. The sample will be destroyed after thirty days from the date of issue of test report unless otherwise specified.

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End of Report\*

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### TEST REPORT

DISPATCH No:-ETL/DSP/23 33 9 |

M/s AMBUJA CEMENT LIMITED (UNIT- NALAGARH) VILLAGE NAVAGRAON, P.O JAJHRA TEH. NALAGARH, DISTRICT SOLAN HIMACHAL PRADESH-174101

Report No.	ETL/44/2023/G/232795	Report Date	29.03.2023	
Customer Ref. No.	2800943057/NE29/07.03.2023	Type of Sample	Ambient Air	
Sample Code Given by Customer	NIL	Date of Sampling	14.03.2023 -15.03.2023	
Sampling Location	Station No.3 Near Administrative building	Date of Sample Receipt	15.03.2023	
Sample Collected By	K.K.Mishra , Field Officer	Sample I.D.	ETL/32/2023/2795	
Sampling Procedure	ETL/STP/27	Date of testing	15.03.2023 -29.03.2023	

SMo		TECHNICAL DATA
-		(PART-A)
1	Location of Sampling Station	Station No.3 Near Administrative building
2	Instrument Used for Sampling	ROS, PM2.5, Sampler & Gaseous Sampler
3	Source of Sampling	Ambient Air
4	Temperature of Sampling Location	30°C
5	Environmental Condition	Max temp. 32°C
		Min temp. 15°C
		Glear sky, wind direction West to South
b	Flow Rate of Gaseous Sampling	0.2 LPM
7	Time Period for Sampling	1440 Min
8	Volume of air Sampled (m³)	1.44

S.No.	PARAMETERS	RESULTS	STANDARD	DETECTION LIMIT	TEST METHOD
1.	Respirable Suspended Particulate Matter( PM10 )	78.2	100.0 µg/m³	-	IS:5182(Pt-23):2006, Realfirmed 2017
2.	Sulphur Dioxide (SO <sub>2</sub> )	9.7	80.0 μg/m³		15:5182(Pt-2): 2001, Reaffirmed 2017
3.	Nitrogen Dioxide (NO <sub>2</sub> )	25.1	80.0 μg/m³	-	15:5182(Pt-6):2006, Realfirmed 2017
4.	Fine Particulate Matter ( PM <sub>2.5</sub> )	39.5	60,0 µg/m³		LS: 5182(Pt-24):2019

Note:

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Plot No. C-101, Industrial Area, Phase-VII Sector 73, Mohali, Punjab - 160059 Mob. 94640-00081, 94172-20081, 94172-10081, (O) 94630-00081, 0172-4630081 GSTIN: 03BPEPS9693P1ZV, PAN No. BPEPS9693P

TEST REPORT

DISPATCH No:-ETL/DSP/23 3391

To M/s AMBUJA CEMENT LIMITED (UNIT-NALAGARH) VILLAGE NAVAGRAON, P.O JAJHRA TEH. NALAGARH, DISTRICT SOLAN HIMACHAL PRADESH-174101

Report No.	ETL/44/2023/G/232795	Report Date	29.03.2023
Customer Ref. No.	2800943057/NE29/07.03.2023	Type of Sample	Ambient Air
Sample Code Given by Customer	NIL	Date of Sampling	14.03.2023 -15.03.2023
Sampling Location	Station No.3 Near Administrative building	Date of Sample Receipt	15.03.2023
Sample Collected By	K.K.Mishra , Field Officer	Sample I.D.	ETL/32/2023/2795
Sampling Procedure	ETL/STP/27	Date of testing	15.03.2023 -29.03.2023

S.No		TECHNICAL DATA (PART-B)
1	Location of Sampling Station	Station No.3 Near Administrative building
2	Instrument Used for Sampling	RDS, PMz5, Sampler & Gaseous Sampler
3	Source of Sampling	Amblent Air
4	Temperature of Sampling Location	30°C
5	Environmental Condition	Max-temp. 32° C
	·	Min temp. 15 ° C
		Clear sky, wind direction West to South
6	Flow Rate of Gaseous Sampling	1 LPM & 2 LPM
7	Time Period for Sampling	1440 Min
8	Volume of air Sampled(m³)	1.44

Sr. No.	PARAMETERS	RESULTS	STANDARD	DETECTION LIMIT	TEST METHOD
1	co	BDL	4.0 mg/m³ (1 hr)	0.5 μg/m <sup>3</sup>	IS:5182(P-10) lodine Pentaoxide method
2	Nickel (Ni)	BDL	20.0 ng/m <sup>3</sup>	15 ng/m <sup>3</sup>	15 5182(Pt-26):2020
3	Arsenic (As)	BDL	6.0·ng/m³	5.0 ng/m <sup>3</sup>	IS 5182(Pt-26):2020
4	Lead (Pb)	BOL	1.0 μg/m³	· 0.1 ng/m³	IS 5182(Pt-26):2020
5	Benzene (C <sub>6</sub> H <sub>6</sub> )	BDL	5.0 µg/n <sup>23</sup>	0.S μg/m <sup>3</sup>	IS 5182(Pt-11):2006
6	Benzo(a)pyrene (BaP)	BDL	1.0 ng/m³	1.0 ng/m <sup>3</sup>	IS 5182(Pt-12):2004
7	Ammonia (NH <sub>3</sub> )	BDL .	400.0 µg/m³	20 μg/m³	l\$ 5182(Pt-25):2018
8	Охоле (Оз)	BDL	180.0 µg/m³ (1 hr)	5.0 μg/m³	CPCB Guideline

### Note:

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**BDL** denotes below detection limit

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DISPATCH No:-ETL/DSP/23 3392

TEST REPORT

M/s Ambuja cement limited (unit-nalagarh) VILLAGE NAVAGRAON, P.O JAJHRA TEH. NALAGARH, DISTRICT SOLAN HIMACHAL PRADESH-174101

Report No.	ETL/44/2023/G/232796		
Customer Ref. No.	2900042057/44530/05-00-0	Report Date	29.03.2023
	2800943057/NEZ9/07.03.2023	Type of Sample	Ambient Air
Sample Code Given by	NIL		
Customer	1112	Date of Sampling	14.03.2023 - 15.03.2023
Sampling Location	Station no.4(Roof Top of Guest House)		
Sample Collected By	K.K.Mishra, Field Officer	Date of Sample Receipt	15.03.2023
Sampling Procedure		Sample I.D.	ETL/32/2023/2796
g r rocoddic	ETL/STP/27	Date of testing	15.03.2023 -29.03.2023

S.No			
		TECHNICAL DATA	
1	Location of Sampling Station	(PART-A)	
2	Instrument Used for Sampling	Station no.4(Roof Top of Guest House)	
3	Source of Sampling	RDS, PM2.5 , Sampler & Gaseous Sampler	
4	Temperature of Sampling Location	Ambient Air	The same of the same of
5.	Environmental Condition	30°C	
	, and dolkatoli	Max temp. 32°C	
		Min temp. 15 ° C	
6	Flow Rate of Gaseous Sampling	Clear sky, wind direction West to South	
7	Time Period for Sampling	0.2 LPM	
8.	Volume of air Sampled(m³)	1440 Min	
		1.45	-

.No.	PARAMETERS	RESULTS	COLUMN		
1	Banda Mi C	TATO CITY	STANDARD	DETECTION LIMIT	TEST METHOD
	Respirable Suspended Particulate Matter( PM <sub>10</sub> )	79.1	100.0 μg/m <sup>3</sup>	-	IS:5182(PI-23):2006, Reaffirmed 2017
2.	Sulphur Dioxide (SO2)	11.1			
2		1,1,4	80.0 μg/m <sup>3</sup>	•	IS:5182(Pt-2): 2001, Reaffirmed 2017
J.	Nitrogen Dioxide (NO <sub>2</sub> )	25.7	80.0 µg/m³		
4.	Fine Particulate Matter ( PM <sub>2.5</sub> )	0.7.7	1-9/11		IS:5182(Pt-6):2006, Reaffirmed 2017
	Total inacce ( Paras)	38,9	60.0 µg/m³		IS: 5182(Pt-24):2019

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Plet No. C-101, Industrial Area, Phase-VII Sector 73, Mohali, Punjab - 160059 Mob. 94640-00081, 94172-20081, 94172-10081, (O) 94630-00081, 0172-4630081 GSTIN: 03BPEPS9693P1ZV, PAN No BPEPS9693P

TEST REPORT

DISPATCH No:-ETL/DSP/ 233392

M/s AMBUJA CEMENT LIMITED (UNIT-NALAGARH) VILLAGE NAVAGRAON, P.O JAJHRA TEH, NALAGARH, DISTRICT SOLAN HIMACHAL PRADESH-174101

Report No.	ETL/44/2023/G/232796	Report Date	29.03.2023
Customer Ref. No.	2800943057/NE29/07.03.2023	Type of Sample	Ambient Air
Sample Code Given by	NIL	Date of Sampling	14.03.2023 -15.03.2023
Customer	Station no.4(Roof Top of Guest House)	Date of Sample Receipt	15.03.2023
Sampling Location Sample Collected By	K.K.Mishra , Field Officer	Sample LD.	ETL/32/2023/2796
Sample concedure	ETL/STP/27	Date of testing	15.03.2023 -29.03.2023

S.No		TECHNICAL DATA (PART-B)
1	Location of Sampling Station	Station no.4(Roof Top of Guest House)
2	Instrument Used for Sampling	RDS, PM25 . Sampler & Gaseous Sampler
3	Source of Sampling	Amblent Air
4	Temperature of Sampling Location	30°C
5	Environmental Condition	Max temp. 32°C
		Mirrtemp. 15°C
		Clear sky, wind direction West to South
6	Flow Rate of Gaseous Sampling	1 LPM & 2LPM
7	Time Period for Sampling	1440 Min
8	Volume of air Sampled(m³)	1.45

Sr. No.	PARAMETERS	RESULTS	STANDARD	DETECTION LIMIT	TEST METHOD
1	CO	BDL	4:0 mg/m³ (1 hr)	0.5 μg/m³	15:51.82(P-10) lodine Pentaoxide method
2	Nickel (Ni)	BDL	20.0 ng/m³	15 ng/m <sup>3</sup>	IS 5182(Pt-26):2020
2	Arsenic (As)	BDI.	6.0 ng/m <sup>3</sup>	5.0 ng/m <sup>3</sup>	IS 5182(Pt-26):2020
4	Lead (Pb)	BDL	1.0 µg/m <sup>3</sup>	0.1 ng/m <sup>3</sup>	IS 5182(Pt-26):2020
7 .	Benzene (C <sub>6</sub> H <sub>6</sub> )	BDL	5.0 µg/m³	0.5-ug/m <sup>3</sup>	[S 5182(Pt-11):2006
5	Benzo(a)pyrene (BaP)	BDL	1.0 ng/m <sup>3</sup>	1.0 ng/m³	IS 5182(Pt-12):2004
0	Ammonia (NH <sub>3</sub> )	BDL	400.0 ug/m³	20 µg/m³	IS 5182(Pt-25):2018
7	Ozone (Oz)	BDL.	180.0 µg/m³ (1 lur)	5.0 μg/m <sup>3</sup>	CPCB Guideline

### Note:

The test report refers only to tested sample and applicable parameters.

The test report can neither be used as evidence in the court of law nor can it be used in part or full in any media without prior permission.

3. The sample will be destroyed after thirty days from the date of issue of test report unless otherwise specified.



ND denotes NOT Detected

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## TEST REPORT

DISPATCH No:-ETL/DSP/23 3393

To M/s ambuja cement limited(unit- nalagarh) VILLAGE NAVAGRAON, P.O JAJHRA TEH. NALAGARH, DISTRICT SOLAN HIMACHAL PRADESH-174161

Report No.	ETL/44/2023/G/232797	Report Date	29.03.2023
Customer Ref. No.	2800943057/NE29/07.03.2023	Type of Sample	Ambient Air
Sample Code Given by Customer	NIL	Date of Sampling	14.03.2023 -15.03.2023
Sampling Location	Station no.5 (Nursery Towards Pater Phaleo)	Date of Sample Receipt	15.03.2023
Sample Collected By	K.K.Mishra , Field Officer	Sample J.D.	ETL/32/2023/2797
Sampling Procedure	ETL/STP/27	Date of testing	15.03.2023 -29.03.2023

S.No		TECHNICAL DATA
1	Yangi GO Yan	(FART-A)
1	Location of Sampling Station	Station no.5 (Nursery Towards Pater Phaloo)
2	Instrument Used for Sampling	RDS, PM <sub>2.5</sub> , Sampler & Gaseous Sampler
3	Source of Sampling	Ambient Air
4	Temperature of Sampling Location	30°C
5	Environmental Condition	Max temp. 32° C Min temp. 15° C
6	Flow Rate of Gaseous Sampling	Clear sky, wind direction West to South
7	Time Period for Sampling	1440 Min
8	Volume of air Sampled(m3)	1.43

i.l∛a.	PARAMETERS	RESULTS	STANDARD	DETECTION LIMIT	TEST METHOD
1.	Respirable Suspended Particulate Matter( PM <sub>10</sub> )	82.3	100.0 μg/m³	-	IS:5182(Pr-23):2006, Reaffirmed 2017
2.	Sulphur Dioxide (502)	11.9	80.0 µg/m³		legationers as agent in the
3.	Nitrogen Dioxide (NO <sub>2</sub> )	26,3	. 51		IS:5182(Pt-2): 2001, Reaffirmed 2017
		6,03	80.0 µg/m³	•	IS:5182(Pt-6):2006, Reaffirmed 2017
1.	Fine Particulate Matter ( PM <sub>2.5</sub> )	40.8	60.0 μg/m <sup>3</sup>	-	IS: 5182(Pt-24):2019

Note:

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with the report unless otherwise specified.

(Authorized Signatory)

AJET GINGI ANDE S Technical Manager Environ Tech Laboratories

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Plot No. C-101, Industrial Area, Phase-VII Sector 73, Mohali, Punjab - 160059 Mob. 94640-00081, 94172-20081, 94172-10081, (O) 94630-00081, 0172-4630081 GSTIN: 03BPEPS9693P1ZV, PAN No. BPEPS9693P

TEST REPORT

DISPATCH No:-ETL/DSP/ 23 33 93

M/s AMBUJA CEMENT LIMITED (UNIT- NALAGARH) VILLAGE NAVAGRAON, P.O JAJHRA TEH. NALAGARH, DISTRICT SOLAN HIMACHAL PRADESH-174101

	ETL/44/2023/G/232797	Report Date	29.03.2023
Report No. Customer Ref. No.	2800943057/NE29/07.03.2023	Type of Sample	Ambient Air
Sample Code Given by	NIL	Date of Sampling	14.03.2023 -15.03.2023
Customer	Station no.5 (Nursery Towards Pater	Date of Sample Receipt	15.03.2023
Sampling Location	Phaloo) K.K.Mishra , Field Officer	Sample I.D.	ETL/32/2023/2797
Sample Collected By Sampling Procedure	ETL/STP/27	Date of testing	15.03.2023 -29.03.2023

S,No		TECHNICAL DATA (PART-B)		
1	Location of Sampling Station	Station no.5 (Nursery Towards Pater Phaloo)		
	Instrument Used for Sampling	RDS + Gaseous sampler + PM2.5 Sampler		
2	Source of Sampling	Amblent Air		
4	Temperature of Sampling Location	30°C		
5	i la Mai	Max.temp. 32°C Min temp. 15 °C		
	ψi	Glear sky, wind direction West to South		
6	Flow Rate of Gaseous Sampling	1 LPM & 2LPM		
<del>-</del> -	Time Period for Sampling	1440 Min		
8	Volume of air Sampled(m³)	1.43		

g N	PARAMETERS	RESULTS	STANDARD	DETECTION LIMIT	TEST METHOD
Sr. No.	CO	BDL	4.0 mg/m³ (1 hr)	0.5 μg/m³	IS:5182(P-10) foding Pentaoxide method
	Nickel (Ni)	BDI.	20.0 ng/m <sup>3</sup>	15 ng/m <sup>3</sup>	IS 51B2(Pt-26):2020
<u>-</u>	Arsenic (As)	BDL	6.0 ng/m <sup>3</sup>	5.0 ng/m <sup>3</sup>	IS 5182(Pt-26):2020
	Lead (Pb)	BDL	1.0 µg/m³	0.1 ng/m <sup>3</sup>	15 5182(Pt-26):2020
e -	Benzene (C <sub>6</sub> H <sub>6</sub> )	BDL	5.0 µg/m <sup>1</sup>	0.5 µg/m³	IS 5182(Pt-11):2006
2	Benzo(a)pyrene (BaP)	BDL	1.0 ng/m <sup>3</sup>	1.0 ng/m <sup>3</sup>	IS 5182(Pt-12):2004
7	Ammonia (NH <sub>3</sub> )	BDL	400.0 μg/m <sup>3</sup>	20 μg/m³	IS 5182(Pt-25):2018
ν -	Ozone (O <sub>3</sub> )	BDL	180.0 μg/m³(1 hr)	5.0 µg/m³	CPCB Guideline

Note:

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The sample will be destroyed after thirty days from the date of issue of test report unless otherwise specified:

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Page 2 Of 2

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## TEST REPORT

DISPATCH No:-ETL/DSP/ 23 3394

m/s ambuja cement limited(unit- nalagarh) VILLAGE NAVAGRAON, P.O JAJHRA TEH. NALAGARH, DISTRICT SOLAN HIMACHAL PRADESH-174101



Report No. Customer Ref. No.	ETL/44/2023/G/232798	Report Date	29.03.2023
customer Ref. No.	2800943057/NE29/07.03.2023	Type of Sample	Ambient Air
Sample Code Given by Customer	NIL	Date of Sampling	14.03.2023 -15.03.2023
Sampling Location	Station No.6 (Near STP Towards Ratyor)	Date of Sample Receipt	15.03.2023
Sample Collected By	R.K.Mishra , Field Officer	Sample I.D.	FIRE 12th Innan 12Tho
Sampling Procedure	ETL/STP/27	Date of testing	ETL/32/2023/2798
S.No	3	Date of testing	15.03.2023 -29.03.2023

No	F	TECHNICAL DATA		
1	Location of Sampling Station	(PART-A)		
7	socaton of path build yearou	Station No.6 (Near STP Towards Ratyor)		
4	Instrument Used for Sampling	RDS, PM <sub>2.5</sub> , Sampler & Gaseous Sampler		
5	Source of Sampling	Ambient Air		
1	Temperature of Sampling Location	30°C		
5	Environmental Condition	Max temp. 32°C Min temp. 15°C		
	Flow Rate of Gaseous Sampling	Clear sky, wind direction West to South		
- 1	Time Period for Sampling	1440 Min		
	Volume of air Sampled(m³)	1440 MIR		

5.No.	PARAMETERS	RESULTS	STANDARD	The Property of the Property o	
1	Description of the second		OTHUDAND	DETECTION LIMIT	TEST METHOD
1.	Respirable Suspended Particulate Matter(PM10)	84.5	100.0 µg/m <sup>3</sup>	-	IS:5 L82(Pt-23):2006, Reaffirmed 201
2.	Sulphur Dioxide (SO <sub>2</sub> )	30.3			
2		10.2	$80.0  \mu g/m^3$		IS:5182(Pt-2): 2001, Reaffirmed 2011
3.	Nitrogen Dioxide (NO₂)	29.4	80.0 µg/gj±		
4	Rimo Dantionalmen M. (1974)			_	IS:5182(Pt-6):2006, Reaffirmed 2017
	Pine Particulate Matter ( PM2.5)	41.5	60.0 µg/m³		IS: 5182(Pt-24):2019

Note:

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AJEET SINGS SAIM Technical Manger Eartron Tech Laboratories

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MoEF & CC Recognized, OHSAS ISO 45001:2018

Plot No. C-101, Industrial Area, Phase-VII Sector 73, Mohali, Punjab - 160059 Mob. 94640-00081, 94172-20081, 94172-10081, (O) 94630-00081, 0172-4630081

GSTIN: 03BPEPS9693P1ZV, PAN No. BPEPS9693P

TEST REPORT

DISPATCH No:-ETL/DSP/233394

M/s AMBUJA CEMENT LIMITED(UNIT- NALAGARH) VILLAGE NAVAGRAON, P.O JAJHRA TEH. NALAGARH, DISTRICT SOLAN

Report No. ETL/44/2023/G/232798		Report Date	29.03.2023	
Customer Ref. No.	2800943057/NE29/07.03.2023	Type of Sample	Ambient Air	
Sample Code Given by Customer	NIL	Date of Sampling	14.03.2023 -15.03.2023	
Sampling Location	Station No.6 (Near STP Towards Ratyor)	Date of Sample Receipt	15.03.2023	
Sample Collected By	K.K.Mishra , Field Officer	Sample I.D.	ETL/32/2023/2798	
Sampling Procedure	ETL/STP/27	Date of testing	15.03.2023 -29.03.2023	

S.No	TECHNICAL DATA (PART-B)			
1	Location of Sampling Station	Station No.6 (Near STP Towards Ratyor)		
2	Instrument Used for Sampling	RDS, PM25, Sampler & Gaseous Sampler		
3	Source of Sampling	Ambient Air		
4	Temperature of Sampling Location	30 °C		
5		Max temp. 32°C Min temp. 15°C		
		Clear sky, wind direction West to South		
6	Flow Rate of Gaseous Sampling	1 LPM & ZLPM		
7	Time Period for Sampling 1740 Min			
-8	Volume of air Sampled(m³)	1.41		

Sr. No.	PARAMETERS	RESULTS	STÄNDARD	DETECTION LIMIT	TEST METHOD
1	co	BDL	4.0 mg/m³ (1 hr)	0.5 µg/m³	IS:5182(P-10) lodine Pentsexide method
2	Nickel (Ni)	BDL	20.0 ng/m <sup>3</sup>	15 ng/m <sup>3</sup>	IS 5 182(Pt-26):2020
3	Arsenic (As)	BDL	6.0 ng/m <sup>3</sup>	5.0 ng/m <sup>3</sup>	IS 5182(Pt-26):2020
4	Lead (Pb)	BDL	1.0 µg/m³	0.1 ng/m <sup>1</sup>	IS 5182(Pt-26):2020
5	Benzene (C <sub>6</sub> H <sub>6</sub> )	BDL	5,0 μg/m <sup>3</sup>	0.5 μg/m³	IS 5182(Pt-11): 2006
6	Benzo(a)pyrene (BaP)	BDL	1.0 ng/m <sup>3</sup>	1.0 ng/m³	iS 5182(Pt-12):2004
7	Ammonia (NH <sub>3</sub> )	BDL	400.0 µg/m³	20 µg/m³	IS 5182(Pt-25):2018
8	Ozone (Oa)	BDL	180.0 ug/m³(1 hr)	5.0 ug/m <sup>3</sup>	CPCB Guideline

Note:

**BDL** denotes below detection limit

The test report refers only to tested sample and applicable parameters.

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1. 2. 3. The sample will be destroyed after thirty days from the date of issue of test report unless otherwise specified. artis (

Signatory)

Technical Manager Environ Total Laboratorie

\*\*End of Report\*

Page 2 Of 2

## Compliance of Conditions of CREP recommendations Ambuja Cements Limited (Cement Grinding Unit), Navagraon - Nalagarh (H.P.)

Sl. No.	Recommendation	Compliance Status
1	Cement Plants, which are not complying with notified standards, shall do the following to meet the standards;	Unit is already meeting the emission standard.
	Augmentation of existing Air Pollution Control Devices - by July 2003. Replacement of existing Air Pollution Control Devices - by July 2004	
2	Cement Plants located in critically polluted or urban areas (including 5 km distance outside urban boundary) will meet 100mg/ Nm3 limit or particulate matter by December 2004 and continue working to reduce the emission of particulate matter to 50 mg/Nm3.	Emission level is maintained below 30 mg/Nm3
3	The new cement kilns to be accorded NOC/Environmental Clearance w.e.f 1.04.2003 will meet the limit of 50 mg/Nm3 for particulate matter emissions.	Not Applicable being standalone grinding unit.
4	CPCB will evolve load based standards by December 2003.	No load based standard for cement industry particularly applicable to grinding unit has been evolved
5	CPCB and NCBM will evolve SO2 and NOx emission standards by June 2004.	Not Applicable being standalone grinding unit.
=	The Cement industries will control fugitive emissions from all the raw material and products storage and transfer points by December 2003. However, the feasibility for the control of fugitive emissions form limestone and coal storage areas will be decided by the National Task Force (NTF). The NTF shall submit its recommendations within three months.	All the material transfer points are equipped with Bag Filters. Raw materials are stored in Silos or covered areas. The maximum area inside plant has been concreted or
	CPCB, NCBM, BIS and Oil refineries will jointly prepare the policy on use of petroleum cokes as fuel cement kiln by July 2003.	Not Applicable being standalone grinding unit.

8	After performance evaluation of various types of continuous monitoring equipment and feedback from the industries and equipment manufactures, NTF will decide feasible unit operations/sections for installation of continuous monitoring equipment. The industry will install the continuous monitoring systems (CMS) by December 2003	system has been installed at Cement Mill Stack. Also, a Continuous Ambient Air Quality Monitoring Station (CAAQMS) has been installed. Both the systems have been connected with CPCB and HPSPCB
9	Tripping in kiln ESP to be minimized by July 2003 as per the recommendations of NTF.	grinding unit.
10	Industries will submit the target date to enhance the utilization of waste material by April, 2003.	All the particulate matter collected through APCEs is automatically recycled in the respected processes. Moreover we are using fly ash for making Pozolona Portland Cement (PPC) which is waste of Thermal Plants.
11	NCBM will carry out a study on hazardous waste utilization in cement kiln by December 2003.	grinding unit.
12	Cement industries will carry out feasibility study and submit target dates to CPCB for co-generation of power by July 2003.  * Noncomplying units shall give bank guarantee to respective SPCBs.	grinding unit.

Teh Valagari Disti.Solan HP) PIN-174101



MoEF & CC Recognized, OHSAS ISO 45001:2018
Plot No. C-101, Industrial Area, Phase VII, Sector 73, Mohall, Punjab - 150059
Mob. 94640-00081, 94172-20081, 94172-10081, (O) 94630-00081, 0172-4630081
GSTIN: 03BPEPS9693P1ZV, PAN No. BPEPS9693P





## TEST REPORT

Dispatch No: ETL/DSP/23 34 0 5

To M/s ambuja cement limited Village navagaon, tehsil nalagarh District solan, himachal pradesh

Report No.	ETL/44/2023/G/232799-2808	Report Date	22.02.2022
Your Ref. No.			29.03.2023
***************************************	2800943057/NE29/07.03.2023	Type of sample	Ambient Noise Monitoring
Sampling Location			
washing Encanal	As per mentioned below	Sample I.D.	ETL/32/2023/2799- 2808
Sample monitored By	27 7070 01		
	Mr. K.K Mishra (Field Officer)	Date of monitoring	14.03.2023
Sampling Procedure	ETL/STP/24		

S.No.	Location & Area	Result dB(A) Leq day	Results dB(A) Leq Night	Standard Limit Leq dB(A)(Day/Night)	Test Method
***************************************	Near material Gate	69,2	61.5	75	IS:9989 Reff.2014
2	No. 12			70	
	Near Admin building	64.3	58.9	75	
				70	
3	Near Scrap yard	69.5	63.1	75	
				, 70	
4.	Near STP on road	69.3	61.9	75	
			2	70	
5	Near MPSS Building	70.9	62.5	75	
				75	
6	In front of DO	69.5	62.3	70	
7	Near Borewell / Dispensary			75	
8		68.9	61.9	70	
				75	
a	Near Store Building	68.5	62.1	70	
0	141	1178.1179.1179.1179.1179.1179.1179.1179.		70	
9	Near Weigh Bridge	69.4	63.1	75	
10	Near min Water Harris			7()	
	Near rain Water Harvesting	70.1	62.5	75	
				70	

Note:

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\*End of Report\*

(Authorized Signatory)

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