

# Ambuja Cement

Ref: ACL/NL/ENV/11-2021/ 135

24<sup>rd</sup> November 2021

**Additional Director,  
Regional Office (North Central Zone),  
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 August 22, 2008. We are sending a point-wise status report from April 2021 to September 2021 on compliance of the stipulated environmental conditions/safeguards of Environmental clearance letter referred above along with Cement Production from April 2021 to September 2021 as Annexure - 8 through e-mail address: **moef.ddn@gov.in** with a request to kindly acknowledge the receipt through return mail.

Hope you will find the information in order.

Thanking you.

Yours faithfully,  
for **Ambuja Cements Limited**  
(Unit: Nalagarh)

  
Unit Head

 Encl: As above

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

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

Additional Director  
Central Pollution Control Board Regional Directorate (North) - Hard Copy  
PICUP Bhawan, Vibhuti Khund, Gomti Nagar  
Lucknow - 226010

**AMBUJA CEMENTS LIMITED**  
(Unit - Nalagarh)

Village Navagraon, P.O. Jajhra, Teh. Nalagarh, Distt. Solan - 174 101 (H.P.)  
Tel : 01795-226701, Fax : 01796-226702, Website : [www.ambujacement.com](http://www.ambujacement.com)  
Regd. Off. : P. O. Ambuja Nagar, Taluka - Kodinar, Distt. Gir Somnath, Gujarat - 362715

CIN No. : L26942GJ1981PLC004717

### Compliance of Conditions of Environment Clearance

Name of the Project: Ambuja Cements Ltd., Village Navagraon, P.O. Jajhra,  
Tehsil Nalagarh, Distt. Solan (H.P.) - 174101

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

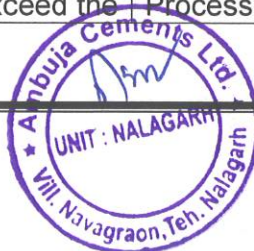
Period of Compliance: April 2021 to September 2021

Sl. No.	Condition	Compliance Status
i	The particulate matter emissions from various sources shall not exceed 50 mg/Nm <sup>3</sup> . The fugitive emissions during loading and unloading shall be suitably controlled. Bag house/ filters shall be provided to control air emissions to achieve the prescribed standards.	To achieve the prescribed standards of Ambient air and Stack emissions, 27 Nos. of Bag filters and one main Bag House have been installed. Stack emissions are maintained well below the prescribed limit of 30mg/Nm <sup>3</sup> . Stack emission monitoring was conducted by M/s Shri Om Testing and Research Laboratory, a NABL laboratory on 22nd September 2021. The results are in the range of 12.2mg/Nm <sup>3</sup> to 18.8 mg/Nm <sup>3</sup> . Reports enclosed as <b>Annexure – 1</b> .
ii	The locations of ambient air quality monitoring stations shall be set up as per statutory requirement in consultation with the Himachal Pradesh Pollution Control Board (HPPCB) and additional stations shall be installed, if required, in the downwind direction as well as where maximum ground level concentrations are anticipated.	Six Ambient Air quality monitoring stations have been fixed and the report is submitted to State Pollution Control Board on monthly basis. Ambient Air quality monitoring is done on regular basis at all six locations. Ambient Air Quality monitoring was conducted by M/s Shri Om Testing and Research Laboratory, a NABL laboratory on 22nd September 2021 for all the six and the results are found to be varying from 68.4 ug/m <sup>3</sup> to 79.1 ug/m <sup>3</sup> for PM <sub>10</sub> and 28.2 ug/m <sup>3</sup> to 38.2 ug/m <sup>3</sup> for PM <sub>2.5</sub> . All other parameters are also within the prescribed limits. Reports enclosed as <b>Annexure – 2</b>
iii	The company shall obtain permission for drawl of 400 m <sup>3</sup> /day ground water from the Central Ground Water Authority/ Central Ground Water Board and copy of the same shall be submitted to the ministry and its Regional Office at	Required permission has been obtained and a copy of permission letter was submitted to the Regional office of MoEF, at Chandigarh vide our letter dated 22 <sup>nd</sup> June 2010. Presently the withdrawal sources are





	Chandigarh within three months from the date of issue of this letter.	registered with HP Ground Water Authority and required permission of Water withdrawal has been obtained.
iv	Green belt shall be developed at least in 33% of plant area to mitigate the effect of fugitive emissions all around the plant as per the guidelines of Central Pollution Control Board.	Provision has been kept for development of Green Belt. We have planted about 7498 Trees and 37423 Shrubs up to September 2021. Total green cover is more than 33% of the plant area. Detail of plantation done up to September 2021 enclosed as <b>Annexure – 3</b>
v	The project authorities shall transport the raw materials and cement in covered means to avoid fugitive emission during transport.	All the raw materials and Cement are transported in covered trucks to avoid fugitive emission during transportation.
vi	No clinker manufacturing facility shall be installed by the company	Clinker manufacturing facility has not been installed.
vii	All the recommendations mentioned in the CREP guidelines for the cement plants shall be followed and complied.	All the recommendations mentioned in CREP guidelines for Cement plants are followed and complied. Compliance status enclosed as <b>Annexure – 4</b>
	<b>GENERAL CONDITIONS</b>	
i	The project authorities shall strictly adhere to the stipulations of the SPCB/ state government or any other statutory body.	All stipulations of SPCB/ State Government and other statutory bodies are being complied and shall be taken care in future also.
ii	All other necessary statutory clearances from the concerned Departments including "No Objection Certificate" from the Himachal Pradesh Pollution Control Board (HPPCB) shall be obtained prior to commencement of construction and/ or operation.	No Objection Certificate was obtained from HPPCB vides letter no. PCB(1114) Ambuja Cement Navagraon/6-13867-73 dated 27/09/2008. All other Statutory Clearances like single window clearance consent under Air and Water Acts have also been obtained. Latest consent is valid up to 31.03.2025
iii	No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment and 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 adequacy of conditions imposed and to add additional environmental protection measures required, if any.	Any expansion or modifications in the plant shall be carried out only after obtaining prior approval of the Ministry of Environment, Forest and Climate Change.
iv	At no time, the emissions shall exceed the	Process interlocking system has been

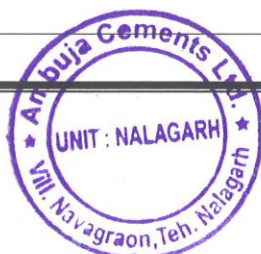


	prescribed limits. In the event of failure of any pollution control system adopted by the unit, the unit shall be immediately put out of operation and shall not be restarted until the desired efficiency has been achieved.	provided which shall automatically trip off the mill in case of failure of pollution control system.
v	The gaseous emissions (So <sub>2</sub> , No <sub>x</sub> ) and particulate matter along with RSPM levels from various process units shall conform to the standards prescribed by the concerned authorities from time to time.	Gaseous emission (So <sub>2</sub> and No <sub>x</sub> ) is not applicable in case of stack emissions in grinding unit where we are monitoring Particulate matter only 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 materials or as raw material substitutes in other processes.	No by-product being generated from process.
	Use of "Close pneumatic" system for transport of fine material.	All fine materials are transported in closed systems to avoid any leakage/spillage.
	All venting systems shall be connected with dust arresting equipments.	All the material transfer points and venting systems are equipped with Bag Filters.
	Dust collect in pollution control equipments shall be reused.	Dust collected in pollution control equipment is automatically recycled in the respective process.
vii	Fugitive emissions in the work zone environment, product and raw materials storage area shall be regularly monitored. The emissions shall conform to the limits imposed by the State Pollution Control Boards/Central Pollution Control Board.	Fugitive emissions in work zone environment, product and raw materials storage area is regularly monitored and are conforming to the prescribed norms. Last monitoring conducted by M/s Shri Om Testing and Research Laboratory, a NABL laboratory on 22nd September 2021 at Packing and Loading floors, Gypsum Storage area and Flyash Handling area. The results found between 1516 ug/M <sup>3</sup> to 4695 ug/M <sup>3</sup> . Apart from this Work area dust exposure was also monitored and the results were 5.42 mg/M <sup>3</sup> at Gypsum feeding operator, 2.28 mg/M <sup>3</sup> at Material Gate person, 5.28mg at Clinker unloading operator, 5.10mg at flyash unloading operator respectively. All the results found to be within the prescribed norms. Reports enclosed as <b>Annexure- 5A</b> and <b>Annexure - 5B</b>

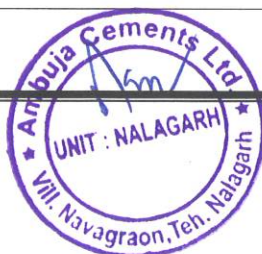




		respectively.
viii	The overall noise levels in all around the plant area shall be kept well within the standards by providing noise control measures including acoustic hoods, silencers, enclosures etc. on all sources of noise generation. The ambient noise levels shall conform to the standards prescribed under Environment (Protection) Act, 1986 Rules, 1989 viz. 75 dBA (day time) and 70 dBA (night time).	All possible noise control measures have been taken. Ambient Noise is regularly monitored. Last monitoring conducted by M/s Shri Om Testing and Research Laboratory, a NABL laboratory on 22nd September 2021 on the plant boundary locations. The results were in the range of 54.6 dB(A) to 69.2 dB(A) during day time and 29.4 dB(A) to 58.6 dB(A) during night time which are well within the prescribed norms. The report is enclosed as <b>Annexure - 6</b>
ix	The company shall develop rain water harvesting structures to harvest the runoff water for recharge of ground water.	Three rain water harvesting structures with proper drainage system have been made for collection of rain water to recharge the ground water. Based on our own measurements, this unit is more than 7.9 times water positive in 2020.
x	Occupational health and safety measures shall be undertaken. Periodic monitorial for exposure to dust on the workers should be conducted and records maintained including health records of the workers. The company shall engage a doctor who is trained in occupational health.	Occupational Health & Safety is given the top most priority in our company. An occupational health centre has been set up. Regular medical checkup has been conducted for the workers as well as employees on annual basis. However keeping in view the situation of Covid 19, Detailed checkup from Third party has not been done but Covid 19 related checkups are done regularly to protect them from getting infected. Eight Covid-vaccination camps were organized in Plant dispensary and 100% of our employees and worker are now vaccinated with 1 <sup>st</sup> dose and 97% with 2 <sup>nd</sup> dose.
xi	The company shall undertake eco-developmental measures including community welfare measures in the project area for the overall improvement of the environment. The eco-development plan should be submitted to the SPCB within three months of receipt of this letter for approval.	Ambuja Cement Foundation (a Non-Governmental Organization) has been set up by the company for looking after Eco-developmental and community welfare measures in the project area and is working since the inception of the project. Total expenditure incurred on CSR activities for the year 2020-21 was Rs.1.18 Crores and is enclosed as <b>Annexure - 7</b>



xii	A separate Environmental Management Cell equipped with full fledged laboratory facilities shall be set up to carry out the Environmental Management and Monitoring functions.	To look after the environmental management and monitoring, the company has set up a separate Environmental Management Cell with full-fledged laboratory.
xiii	The project authorities shall earmark Rs. 2.20 Crores to implement the conditions stipulated by the Ministry of Environment and Forests as well as the State Government. An implementation schedule for all the conditions stipulated herein shall be submitted to the Ministry's Regional Office. The funds so provided shall not be diverted for any other purpose.	Though a sum of Rs.2.20 Crores was earmarked to implement the conditions stipulated by the Ministry of Environment and Forests as well as the State Government, Initially we had spent approximately 41 Crores on Environment Protection measures and other related activities. For the period from April 2021 to September 2021 we have spent approximately 32.57 Lacs rupees on environmental protection and other related activities.
xiv	The implementation of the project vis-à-vis environmental action plans shall be monitored by the concerned Regional Office of the Ministry/SPCB/CPCB. A six monthly compliance status report shall be submitted to monitoring agencies and shall be posted on the website of the Company.	Six monthly compliance reports are being submitted regularly. Last report October 2020 to March 2021 was submitted through e-mail <a href="mailto:moef.ddn@gov.in">moef.ddn@gov.in</a> on 22 <sup>nd</sup> May 2021. The same had also been posted on company website.
xv	The project proponent shall inform the public that the project has been accorded environmental clearance by the Ministry and copies of the clearance letter are available with the SPCB and may also be seen at Website of the Ministry at <a href="http://envfor.nic.in">http://envfor.nic.in</a> . This shall be advertised within seven days from the date of issue of the 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.	The condition has been complied with. The same had been advertised in two local news papers (The Tribune and Dainik Bhaskar) dated 29 <sup>th</sup> August 2008 in Hindi and the same had been forwarded to Regional Office of the Ministry, Chandigarh vides our letter dated 9 <sup>th</sup> September 2008.
xvi	The project authorities shall inform the Regional Office as well as the Ministry, the date of financial closure and final approval of the project by the concerned authorities and the date of start of project.	The project was approved by the state govt. on March 11, 2008; EC granted by MoEF on August 22, 2008. The project activities were formally started in January, 2009. Consent to Operate was issued by State Pollution Control Board on March 23, 2010 and production started on March 27, 2010.







# SHRI OM TESTING & RESEARCH LABORATORY

Plot No. 296, 1<sup>st</sup> FNG Road, Sector-121, Ghari Chaukhandi, Noida - 201301

Web.: www.shriomlab.com, www.shriomlab.in

I.A.B.L. Accredited, ISO 9001, ISO 14001 & ISO 45001 Certified Laboratory

## TEST REPORT

Report Code no.: 30092021-7

Issue Date : 30.09.2021

Issue to: M/s Ambuja Cement Ltd.,  
Nalagarh, Distt. Solan

## SAMPLING & ANALYSIS DATA

Sample Description  
Sample Drawn on  
Sample Drawn by  
Sample Received on  
Time of Sampling (minutes)  
Analysis Duration  
Source of Emission  
Capacity  
Normal Operation Schedule  
Type of Stack  
Height of Stack from Ground Level (meter)  
Type of Fuel Used  
Operating Load  
Ambient Temperature (°C)  
Stack Flue Gas Temperature (°C)  
Average Velocity of Fuel Emission (m/sec)  
Control Device

**Stack Emission of Vertical Roller Mill**  
22/09/2021  
M/S ECO-MOLECULE Team  
23/09/2021  
30.0  
24/09/2021  
**Stack Attached To Vertical Roller Mill**  
250 Ton/hr  
As per requirement  
Metal/Circular  
44.0  
Furnace Oil  
2 Lt/Ton of product  
36.0  
73.0  
8.4  
Bag House

S. No.	Parameter	Methods	Results	Units	Limits as per EPA-1986, (SL-96 Schedule-I)
1.	Particulate Matter (as PM)	IS: 11255 (P-1)	14.80	mg/Nm <sup>3</sup>	30.0
2.	Sulphur Dioxide (as SO <sub>2</sub> )	IS: 11255 (P-2)	20.12	mg/Nm <sup>3</sup>	Not Specified
3.	Oxide of Nitrogen (as NO <sub>x</sub> )	IS: 11255 (P-7)	62.4	mg/Nm <sup>3</sup>	Not Specified
4.	Carbon Monoxide (as CO)	IS: 13270	<0.2	% VN	1.0

\*\*\*\*\*End of Report\*\*\*\*\*



Shri Om Testing & Research Laboratory

*R. Sharma*  
Technical Manager

Authorized Signatory

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1/5



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**J.A.B.L. Accredited, ISO 9001, ISO 14001 & ISO 45001 Certified Laboratory**

## TEST REPORT

Report Code no.: 30092021-8

Issue Date : 30.09.2021

Issue to: M/s Ambuja Cement Ltd.,  
Nalagarh, Distt. Solan

### SAMPLING & ANALYSIS DATA

Sample Description  
Sample Drawn on  
Sample Drawn by  
Sample Received on  
Time of Sampling (minutes)  
Sampling Location  
Analysis Duration  
Capacity  
Normal Operation Schedule  
Type of Stack  
Height of Stack from Ground Level (meter)  
Diameter of Stack  
Type of Fuel Used  
Ambient Temperature (°C)  
Stack Flue Gas Temperature (°C)  
Average Velocity of Fuel Emission (m/sec)  
Control Device

**Stack Sampling**  
22/09/2021  
M/S ECO-MOLECULE Team  
23/09/2021  
30.0  
**Packing Plant Packer No. 1**  
24/09/2021  
240 Ton/hr  
As per requirement  
Metal/Circular  
31.6  
100 Cm  
Electricity  
36.0  
74.0  
7.12  
Bag Filter

S. No.	Parameter	Methods	Results	Units	Limits as per EPA-1986, (SL-96 Schedule-I)
1.	Particulate Matter (as PM)	IS: 11255 (P-1)	12.2	mg/Nm <sup>3</sup>	30.0

\*\*\*\*\*End of Report\*\*\*\*\*



Shri Om Testing & Research Laboratory

*R. Sharma*  
Technical Manager  
Authorized Signatory

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2/5





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## TEST REPORT

Report Code no.: 30092021-9

Issue Date : 30.09.2021

Issue to: M/s Ambuja Cement Ltd.,  
Nalagarh, Distt. Solan

### SAMPLING & ANALYSIS DATA

Sample Description	Stack Sampling
Sample Drawn on	22/09/2021
Sample Drawn by	M/S ECO-MOLECULE Team
Sample Received on	23/09/2021
Time of Sampling (minutes)	30.0
Sampling Location	NA
Analysis Duration	24/09/2021
Source of Emission	Packing Plant Packer No. 2
Capacity	240 Ton/hr
Type of Stack	Metal/Circular
Height of Stack from Ground Level (meter)	31.6
Diameter of Stack	100 Cm
Ambient Temperature (°C)	36.0
Stack Flue Gas Temperature (°C)	24.0
Average Velocity of Fuel Emission (m/sec)	7.40
Control Device	Bag Filter

S. No.	Parameter	Methods	Results	Units	Limits as per EPA-1986, (SL-96 Schedule-I)
1	Particulate Matter (as PM)	IS: 11255 (P-1)	18.8	mg/Nm <sup>3</sup>	30.0

\*\*\*\*\*End of Report\*\*\*\*\*



Shri Om Testing & Research Laboratory

*R. S. Sood*  
Technical Manager

Authorized Signatory

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3/5



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## TEST REPORT

Report Code no.: 30092021-10

Issue Date : 30.09.2021

Issue to: M/s Ambuja Cement Ltd.,  
Nalagarh, Distt. Solan

### SAMPLING & ANALYSIS DATA

<b>Sample Description</b> Sample Drawn on Sample Drawn by Sample Received on Time of Sampling (minutes) Sampling Location Analysis Duration Source of Emission Capacity/Operating Load Height of Stack from Ground Level (meter) Stack Dia, Meter Ambient Temperature (°C) Stack Flue Gas Temperature (°C) Average Velocity of Fuel Emission (m/sec) Control Device			<b>Stack Sampling</b> 22/09/2021 M/S ECO-MOLECULE Team 23/09/2021 30.0 NA 24/09/2021 <b>Clinker Tippler Bag filter 1</b> 54.0 32.0 1.0 36.0 44.0 9.12 Bag House		
S. No.	Parameter	Methods	Results	Units	Limits as per EPA-1986, (SL-96 Schedule-I)
1	Particulate Matter (as PM)	IS: 11255 (P-1)	17.50	mg/Nm <sup>3</sup>	30.0



Shri Om Testing & Research Laboratory

*R. S. Mehta*  
Technical Manager  
Authorized Signatory

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4/5





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## TEST REPORT

Report Code no.: 30092021-11

Issue Date : 30.09.2021

Issue to: M/s Ambuja Cement Ltd.,  
Nalagarh, Distt. Solan

### SAMPLING & ANALYSIS DATA

<b>Sample Description</b> Sample Drawn on Sample Drawn by Sample Received on Time of Sampling (minutes) Analysis Duration Source of Emission Capacity Operating Load Height of Stack from Ground Level (meter) Stack Dia, Meter Ambient Temperature (°C) Stack Flue Gas Temperature (°C) Average Velocity of Fuel Emission (m/sec) Control Device			<b>Stack Sampling</b> 22/09/2021 M/S ECO-MOLECULE Team 23/09/2021 30.0 24/09/2021 <b>Clinker Tippler Bag filter 2</b> 54.0 32.0 1.0 36.0 40.0 10.8 Bag House		
S. No.	Parameter	Methods	Results	Units	Limits as per EPA-1986, (SL-96 Schedule-I)
1	Particulate Matter (as PM)	IS: 11255 (P-1)	12.4	mg/Nm <sup>3</sup>	30.0



Shri Om Testing & Research Laboratory

*R. Shreeniwas*  
Technical Manager  
Authorized Signatory

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5/5



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## TEST REPORT

Report Code no.: 30092021-1

Issue Date : 30.09.2021

Issue to: M/s Ambuja Cement Ltd.,  
Nalagarh, Distt. Solan

## SAMPLING & ANALYSIS DATA

Sample Drawn on	:	22/09/2021
Sample Drawn By	:	M/s Eco-Molecule Technologies & Soln.
Sample Description	:	<b>Ambient Air Monitoring</b>
Location	:	Station No.1 (Labour Hutment Towards Jajhira)
Sampling Time	:	24 hrs
Analysis Duration	:	23/09/2021 to 26/09/2021
Flow Rate	:	1.01

TEST REPORT					
S.No.	Parameters	Test Method	Results	Units	Standard Limits
1.	RSPM (PM10)	IS:5182 Part-XXIII	74.0	µg/m3	100.0
2.	Particulate Matter (PM2.5)	CPCB Vol-I	30.0	µg/m3	60.0
3.	Sulphur Dioxide	IS:5182 Part-II	3.18	µg/m3	80.0
4.	Nitrogen Oxide	IS:5182 Part-VI	12.46	µg/m3	80.0
5.	Carbon Monoxide	IS:5182 Part-X	0.40	µg/m3	4.0
6.	Lead as Pb	IS:5182 Part-XXII	ND	µg/m3	1.0
7.	Ozone as O3	IS:5182 Part-IX	20.0	µg/m3	180.0
8.	Benzene as C6H6	IS:5182 Part-XI	ND	µg/m3	5.0
9.	Benzo(a) Pyrene	IS:5182 Part-XI	ND	µg/m3	1.0
10.	Ammonia as NH3	APHA-AIR402	ND	µg/m3	400.0
11.	Nickel as Ni	APHA-AIR420	ND	µg/m3	20.0
12.	Arsenic as As	APHA-AIR 302	ND	µg/m3	6.0

ND- Not Detectable



Shri Om Testing & Research Laboratory

*R. Shrivastava*  
Technical Manager  
Authorized Signatory

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1/6





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## TEST REPORT

Report Code no.: 30092021-2

Issue Date : 30.09.2021

Issue to: M/s Ambuja Cement Ltd.,  
Nalagarh, Distt. Solan

### SAMPLING & ANALYSIS DATA

Sample Drawn on	:	22/09/2021
Sample Drawn By	:	M/s Eco-Molecule Technologies & Soln.
Sample Description	:	<b>Ambient Air Monitoring</b>
Location	:	Station No.2 (Rain Water Harvesting)
Sampling Time	:	24 hrs
Analysis Duration	:	23/09/2021 to 26/09/2021
Flow Rate	:	1.01

### TEST REPORT

S.No.	Parameters	Test Method	Results	Units	Standard Limits
1.	Particulate Matter (PM10)	IS:5182 Part-XXIII	72.5	µg/m <sup>3</sup>	100.0
2.	Particulate Matter (PM2.5)	CPCB Vol-I	38.2	µg/m <sup>3</sup>	60.0
3.	Sulphur Dioxide	IS:5182 Part-II	1.68	µg/m <sup>3</sup>	80.0
4.	Nitrogen Oxide	IS:5182 Part-VI	8.20	µg/m <sup>3</sup>	80.0
5.	Carbon Monoxide	IS:5182 Part-X	1.40	µg/m <sup>3</sup>	4.0
6.	Lead as Pb	IS:5182 Part-XXII	ND	µg/m <sup>3</sup>	1.0
7.	Ozone as O <sub>3</sub>	IS:5182 Part-IX	22.6	µg/m <sup>3</sup>	180.0
8.	Benzene as C <sub>6</sub> H <sub>6</sub>	IS:5182 Part-XI	ND	µg/m <sup>3</sup>	5.0
9.	Benzo(a) Pyrene	IS:5182 Part-XI	ND	µg/m <sup>3</sup>	1.0
10.	Ammonia as NH <sub>3</sub>	APHA-AIR402	ND	µg/m <sup>3</sup>	400.0
11.	Nickel as Ni	APHA-AIR420	ND	µg/m <sup>3</sup>	20.0
12.	Arsenic as As	APHA-AIR 302	ND	µg/m <sup>3</sup>	6.0

Note- ND- Not Detectable



Shri Om Testing & Research Laboratory

*R. Sharma*  
Technical Manager

Authorized Signatory

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## TEST REPORT

Report Code no.: 30092021-3

Issue Date : 30.09.2021

Issue to: M/s Ambuja Cement Ltd.,  
Nalagarh, Distt. Solan

### SAMPLING & ANALYSIS DATA

Sample Drawn on	:	22/09/2021
Sample Drawn By	:	M/s Eco-Molecule Technologies & Soln.
Sample Description	:	<b>Ambient Air Monitoring</b>
Location	:	Station No.3 (Administrative Building)
Sampling Time	:	24 hrs
Analysis Duration	:	23/09/2021 to 26/09/2021
Flow Rate	:	1.01

### TEST RESULTS

S.No.	Parameters	Test Method	Results	Units	Standard Limits
1.	RSPM (PM10)	IS:5182 Part-XXIII	79.10	µg/m3	100.0
2.	Particulate Matter (PM2.5)	CPCB Vol-I	36.0	µg/m3	60.0
3.	Sulphur Dioxide	IS:5182 Part-II	2.28	µg/m3	80.0
4.	Nitrogen Oxide	IS:5182 Part-VI	20.33	µg/m3	80.0
5.	Carbon Monoxide	IS:5182 Part-X	1.12	mg/m3	4.0
6.	Lead as Pb	IS:5182 Part-XXII	ND	µg/m3	1.0
7.	Ozone as O3	IS:5182 Part-IX	26.8	µg/m3	180.0
8.	Benzene as C6H6	IS:5182 Part-XI	ND	µg/m3	5.0
9.	Benzo(a) Pyrene	IS:5182 Part-XI	ND	ng/m3	1.0
10.	Ammonia as NH3	APHA-AIR402	ND	µg/m3	400.0
11.	Nickel as Ni	APHA-AIR420	ND	ng/m3	20.0
12.	Arsenic as As	APHA-AIR 302	ND	ng/m3	6.0

ND- Not Detectable



Shri Om Testing & Research Laboratory

*R. Sharma*  
Technical Manager  
Authorized Signatory

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## TEST REPORT

Report Code no.: 30092021-4

Issue Date : 30.09.2021

Issue to: M/s Ambuja Cement Ltd.,  
Nalagarh, Distt. Solan

## SAMPLING & ANALYSIS DATA

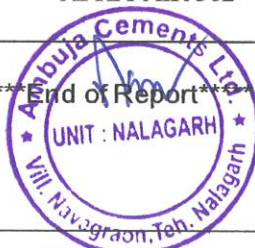
Sample Drawn on	:	22/09/2021
Sample Drawn By	:	M/s Eco-Molecule Technologies & Soln.
Sample Description	:	<b>Ambient Air Monitoring</b>
Location	:	Station No.4 (Roof Top Guest House)
Sampling Time	:	24 hrs
Analysis Duration	:	23/09/2021 to 26/09/2021
Flow Rate	:	1.01

## TEST REPORT

S.No.	Parameters	Test Method	Results	Units	Standard Limits
1.	RSPM (PM10)	IS:5182 Part-XXIII	68.4	µg/m3	100.0
2.	Particulate Matter (PM2.5)	CPCB Vol-I	28.20	µg/m3	60.0
3.	Sulphur Dioxide	IS:5182 Part-II	3.86	µg/m3	80.0
4.	Nitrogen Oxide	IS:5182 Part-VI	24.20	µg/m3	80.0
5.	Carbon Monoxide	IS:5182 Part-X	0.85	mg/m3	4.0
6.	Lead as Pb	IS:5182 Part-XXII	ND	µg/m3	1.0
7.	Ozone as O3	IS:5182 Part-IX	24.60	µg/m3	180.0
8.	Benzene as C6H6	IS:5182 Part-XI	ND	µg/m3	5.0
9.	Benzo(a) Pyrene	IS:5182 Part-XI	ND	ng/m3	1.0
10.	Ammonia as NH3	APHA-AIR402	ND	µg/m3	400.0
11.	Nickel as Ni	APHA-AIR420	ND	ng/m3	20.0
12.	Arsenic as As	APHA-AIR 302	ND	ng/m3	6.0

Note- ND- Not Detectable

\*\*\*\*\*End of Report\*\*\*\*\*



Shri Om Testing & Research Laboratory

*R. Sharma*  
Technical Manager

Authorized Signatory

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## TEST REPORT

Report Code no.: 30092021-5

Issue Date : 30.09.2021

Issue to: M/s Ambuja Cement Ltd.,  
Nalagarh, Distt. Solan

### SAMPLING & ANALYSIS DATA

Sample Drawn on	:	22/09/2021
Sample Drawn By	:	M/s Eco-Molecule Technologies & Soln.
Sample Description	:	<b>Ambient Air Monitoring</b>
Location	:	Station No.5 (Near Nursery towards Pater Phaloo)
Sampling Time	:	24 hrs
Analysis Duration	:	23/09/2021 to 26/09/2021
Flow Rate	:	1.01

TEST REPORT					
S.No.	Parameters	Test Method	Results	Units	Standard Limits
1.	Particulate Matter (PM10)	IS:5182 Part-XXIII	75.0	µg/m3	100.0
2.	Particulate Matter (PM2.5)	CPCB Vol-I	32.4	µg/m3	60.0
3.	Sulphur Dioxide	IS:5182 Part-II	2.16	µg/m3	80.0
4.	Nitrogen Oxide	IS:5182 Part-VI	23.0	µg/m3	80.0
5.	Carbon Monoxide	IS:5182 Part-X	1.20	µg/m3	4.0
6.	Lead as Pb	IS:5182 Part-XXII	ND	µg/m3	1.0
7.	Ozone as O3	IS:5182 Part-IX	20.4	µg/m3	180.0
8.	Benzene as C6H6	IS:5182 Part-XI	ND	µg/m3	5.0
9.	Benzo(a) Pyrene	IS:5182 Part-XI	ND	µg/m3	1.0
10.	Ammonia as NH3	APHA-AIR402	ND	µg/m3	400.0
11.	Nickel as Ni	APHA-AIR420	ND	µg/m3	20.0
12.	Arsenic as As	APHA-AIR 302	ND	µg/m3	6.0

Note- ND- Not Detectable



Shri Om Testing & Research Laboratory

*R. Shalini*  
Technical Manager  
Authorized Signatory

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## TEST REPORT

Report Code no.: 30092021-6

Issue Date : 30.09.2021

Issue to: M/s Ambuja Cement Ltd.,  
Nalagarh, Distt. Solan

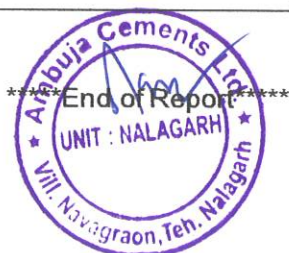
### SAMPLING & ANALYSIS DATA

Sample Drawn on	:	22/09/2021
Sample Drawn By	:	M/s Eco-Molecule Technologies & Soln.
Sample Description	:	<b>Ambient Air Monitoring</b>
Location	:	Station No.6 (Near STP towards Ratyor)
Sampling Time	:	24 hrs
Analysis Duration	:	23/09/2021 to 26/09/2021
Flow Rate	:	1.01

### TEST REPORT

S.No.	Parameters	Test Method	Results	Units	Standard Limits
1	Particulate Matter (PM10)	IS:5182 Part-XXIII	73.40	µg/m3	100.0
2.	Particulate Matter (PM2.5)	CPCB Vol-I	28.5	µg/m3	60.0
3.	Sulphur Dioxide	IS:5182 Part-II	3.70	µg/m3	80.0
4	Nitrogen Oxide	IS:5182 Part-VI	22.40	µg/m3	80.0
5	Carbon Monoxide	IS:5182 Part-X	1.06	µg/m3	4.0
6	Lead as Pb	IS:5182 Part-XXII	ND	µg/m3	1.0
7	Ozone as O3	IS:5182 Part-IX	18.9	µg/m3	180.0
8	Benzene as C6H6	IS:5182 Part-XI	ND	µg/m3	5.0
9	Benzo(a) Pyrene	IS:5182 Part-XI	ND	µg/m3	1.0
10	Ammonia as NH3	APHA-AIR402	ND	µg/m3	400.0
11	Nickel as Ni	APHA-AIR420	ND	µg/m3	20.0
12	Arsenic as As	APHA-AIR 302	ND	µg/m3	6.0

Note- ND- Not Detectable



Shri Om Testing & Research Laboratory

*R. Shree*  
Technical Manager  
Authorized Signatory

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6/6

Annexure - 3

**AMBUJA CEMENTS LIMITED (UNIT - NALAGARH)  
PLANTATION DATA UPTO SEPTEMBER 2020**

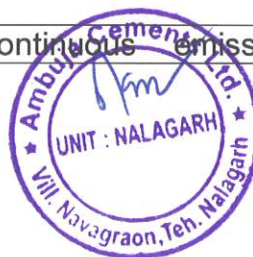
Month	Trees planted	Shrubs planted
Upto December 2010	1640	8968
January to December 2011	1161	18895
January to December 2012	929	2835
January to December 2013	570	2380
January to December 2014	596	636
January to December 2015	582	257
January to December 2016	570	330
January to December 2017	349	257
January to December 2018	500	0
January to December 2019	414	2250
January to December 2020	40	165
January 2021	0	0
February 2021	0	50
March 2021	0	0
April 2021	0	0
May 2021	0	0
June 2021	25	50
July 2021	52	200
August 2021	70	150
September 2021	0	0
Total	7498	37423



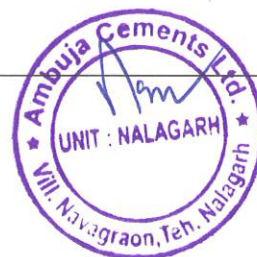


**Compliance of Conditions of CREP recommendations  
Ambuja Cements Limited Village Navagraon - Nalagarh (H.P.)**

Sl. No.	Recommendation	Compliance Status
1	Cement Plants, which are not complying with notified standards, shall do the following to meet the standards;  Augmentation of existing Air Pollution Control Devices - by July 2003. Replacement of existing Air Pollution Control Devices - by July 2004	Unit is already meeting the notified emission standards.
2	Cement Plants located in critically polluted or urban areas (including 5 km distance outside urban boundary) will meet 100mg/ Nm <sup>3</sup> limit or particulate matter by December 2004 and continue working to reduce the emission of particulate matter to 50 mg/Nm <sup>3</sup> .	Emission level is maintained below 30 mg/Nm <sup>3</sup>
3	The new cement kilns to be accorded NOC/Environmental Clearance w.e.f 1.04.2003 will meet the limit of 50 mg/Nm <sup>3</sup> for particulate matter emissions.	Not Applicable as there is a 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 SO <sub>2</sub> and NO <sub>x</sub> emission standards by June 2004.	Not Applicable as this is a standalone Grinding Unit.
6	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 from 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 covered areas. Maximum area inside plant is either covered with Greenery or it has been concreted to prevent fugitive emission.
7	CPCB, NCBM, BIS and Oil refineries will jointly prepare the policy on use of petroleum cokes as fuel in cement kiln by July 2003.	Not Applicable as this is a standalone Grinding Unit.
8	After performance evaluation of various	Continuous emission monitoring



	types of continuous monitoring equipment and feedback form 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 State Pollution Control Board for online data transmission.
9	Tripping in kiln ESP to be minimized by July 2003 as per the recommendations of NTF.	Not Applicable as this is a standalone 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. More over 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.	Not Applicable as this is a standalone Grinding Unit.
12	Cement industries will carry out feasibility study and submit target dates to CPCB for co-generation of power by July 2003. * Non complying units shall given bank guarantee to respective SPCBs.	Not Applicable.







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## TEST REPORT

Report Code no.: 30092021-18

Issue Date : 30.09.2021

Issue to: M/s Ambuja Cement Ltd.,  
Nalagarh, Distt. Solan

## SAMPLING & ANALYSIS DATA

Sample Drawn on : 22/09/2021  
Sample Drawn By : M/s Eco-Molecule Technologies & Soln.  
Sample Description : Fly ash loading Area  
Sampling Time : 8 hrs  
Source of Emission : Work Zone Air (Fugitive Emission)  
Flow Rate : 1.03

## TEST REPORT

S.No.	Parameters	Test Method	Results	Units	Emission Limits, µg/m <sup>3</sup>
1	SPM	IS:5182 Part-XXIII	1850.0	µg/m <sup>3</sup>	5000.0

\*\*\*\*\*End Of Report\*\*\*\*\*



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*R. Sharma*  
Technical Manager

Authorized Signatory

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## TEST REPORT

Report Code no.: 30092021-17

Issue Date : 30.09.2021

Issue to: M/s Ambuja Cement Ltd.,  
Nalagarh, Distt. Solan

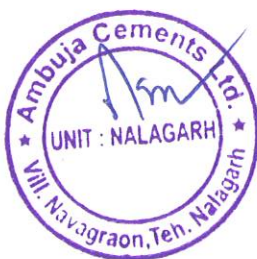
## SAMPLING & ANALYSIS DATA

Sample Drawn on : 22/09/2021  
Sample Drawn By : M/s Eco-Molecule Technologies & Soln.  
Sample Description : Gypsum Storage Area  
Sampling Time : 8 hrs  
Source of Emission : Work Zone Air (Fugitive Emission)  
Flow Rate : 1.03

## TEST REPORT

S.No.	Parameters	Test Method	Results	Units	Emission Limits, µg/m <sup>3</sup>
1	SPM	IS:5182 Part-XXIII	1516.0	µg/m <sup>3</sup>	5000.0

\*\*\*\*\*End Of Report\*\*\*\*\*



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## TEST REPORT

Report Code no.: 30092021-16

Issue Date : 30.09.2021

Issue to: M/s Ambuja Cement Ltd.,  
Nalagarh, Distt. Solan

## SAMPLING & ANALYSIS DATA

Sample Drawn on : 22/09/2021  
Sample Drawn By : M/s Eco-Molecule Technologies & Soln.  
Sample Description : Loading Floor  
Sampling Time : 8 hrs  
Source of Emission : Work Zone Air (Fugitive Emission)  
Flow Rate : 1.03

TEST REPORT					
S.No.	Parameters	Test Method	Results	Units	Emission Limits, µg/m <sup>3</sup>
1	SPM	IS:5182 Part-XXIII	3150.0	µg/m <sup>3</sup>	5000.0

\*\*\*\*\*End of Report\*\*\*\*\*



Shri Om Testing & Research Laboratory

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Authorized Signatory

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## TEST REPORT

Report Code no.: 30092021-15

Issue Date : 30.09.2021

Issue to: M/s Ambuja Cement Ltd.,  
Nalagarh, Distt. Solan

### SAMPLING & ANALYSIS DATA

Sample Drawn on : 22/09/2021  
Sample Drawn By : M/s Eco-Molecule Technologies & Soln.  
Sample Description : Packing Floor  
Sampling Time : 8 hrs  
Source of Emission : Work Zone Air (Fugitive Emission)  
Flow Rate : 1.03

### TEST REPORT

S.No.	Parameters	Test Method	Results	Units	Emission Limits, $\mu\text{g}/\text{m}^3$
1	SPM	IS:5182 Part-XXIII	4695.0	$\mu\text{g}/\text{m}^3$	5000.0

\*\*\*\*\*End Of Report\*\*\*\*\*



Shri Om Testing & Research Laboratory

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## TEST REPORT

Report Code no.: 30092021-19

Issue Date : 30.09.2021

Issue to: M/s Ambuja Cement Ltd.,  
Nalagarh, Distt. Solan

## SAMPLING & ANALYSIS DATA

Sample Drawn on : 22/09/2021  
Sample Drawn By : M/s Eco-Molecule Technologies & Soln.  
Sample Description : Gypsum Feeding (Operator)  
Sampling Time : 8 hrs  
Source of Emission : Work Place Dust Monitoring  
Flow Rate : 1.02

TEST REPORT					
S.No.	Parameters	Test Method	Results	Units	Standard Limits mg/m <sup>3</sup>
1.	Suspended Particulate Matters	IS:5182 Part-XXIII	5.42	mg/m <sup>3</sup>	10.0
2.	Sulphur Dioxide	IS:5182 Part-II	0.026	mg/m <sup>3</sup>	5.0
3.	Nitrogen Oxide	IS:5182 Part-VI	1.040	mg/m <sup>3</sup>	6.0
4.	Carbon Monoxide	IS:5182 Part-X	1.20	mg/m <sup>3</sup>	55.0

\*\*\*\*\*End Of Report\*\*\*\*\*



Shri Om Testing & Research Laboratory

*[Signature]*  
Technical Manager

Authorized Signatory

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1/4



# SHRI OM TESTING & RESEARCH LABORATORY

Plot No. 296, 1<sup>st</sup> FNG Road, Sector-121, Ghari Chaukhandi, Noida - 201301

Web.: www.shriomlab.com, www.shriomlab.in

**N.A.B.L. Accredited, ISO 9001, ISO 14001 & ISO 45001 Certified Laboratory**

## TEST REPORT

Report Code no.: 30092021-20

Issue Date : 30.09.2021

Issue to: M/s Ambuja Cement Ltd.,  
Nalagarh, Distt. Solan

## SAMPLING & ANALYSIS DATA

Sample Drawn on : 22/09/2021  
Sample Drawn By : M/s Eco-Molecule Technologies & Soln.  
Sample Description : Material Gate (Security Person)  
Sampling Time : 8 hrs  
Source of Emission : **Work Place Dust Monitoring**  
Flow Rate : 1.06

TEST REPORT					
S.No.	Parameters	Test Method	Results	Units	Standard Limits mg/m3
1.	Suspended Particulate Matters	IS:5182 Part-XXIII	2.28	mg/m3	10.0
2.	Sulphur Dioxide	IS:5182 Part-II	0.70	mg/m3	5.0
3.	Nitrogen Oxide	IS:5182 Part-VI	2.20	mg/m3	6.0
4.	Carbon Monoxide	IS:5182 Part-X	0.120	mg/m3	55.0

\*\*\*\*\*End of Report\*\*\*\*\*



Shri Om Testing & Research Laboratory

*[Signature]*  
Technical Manager

Authorized Signatory

Note: 1. The results indicated only refer to the tested sample and listed parameters and do not endorse any product. The customer asked for the above tests only.

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2/4





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## TEST REPORT

Report Code no.: 30092021-29

Issue Date : 30.09.2021

Issue to: M/s Ambuja Cement Ltd.,  
Nalagarh, Distt. Solan

## SAMPLING & ANALYSIS DATA

Sample Drawn on : 22/09/2021  
Sample Drawn By : M/s Eco-Molecule Technologies & Soln.  
Sample Description : Clinker Unloading (Operator)  
Sampling Time : 8 hrs  
Source of Emission : **Work Place Dust Monitoring**  
Flow Rate : 1.10

TEST REPORT					
S.No.	Parameters	Test Method	Results	Units	Standard Limits mg/m3
1.	Suspended Particulate Matters	IS:5182 Part-XXIII	5.28	mg/m3	10.0
2.	Sulphur Dioxide	IS:5182 Part-II	0.29	mg/m3	5.0
3.	Nitrogen Oxide	IS:5182 Part-VI	1.44	mg/m3	6.0
4.	Carbon Monoxide	IS:5182 Part-X	1.17	mg/m3	55.0

\*\*\*\*\*End of Report\*\*\*\*\*



Shri Om Testing & Research Laboratory

Technical Manager

Authorized Signatory

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3/4



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## TEST REPORT

Report Code no.: 30092021-30

Issue Date : 30.09.2021

Issue to: M/s Ambuja Cement Ltd.,  
Nalagarh, Distt. Solan

## SAMPLING & ANALYSIS DATA

Sample Drawn on : 22/09/2021  
Sample Drawn By : M/s Eco-Molecule Technologies & Soln.  
Sample Description : Flyash Unloading (Operator)  
Sampling Time : 8 hrs  
Source of Emission : **Work Place Dust Monitoring**  
Flow Rate : 1.10

TEST REPORT					
S.No.	Parameters	Test Method	Results	Units	Standard Limits mg/m <sup>3</sup>
1.	Suspended Particulate Matters	IS:5182 Part-XXIII	05.10	mg/m <sup>3</sup>	10.0
2.	Sulphur Dioxide	IS:5182 Part-II	0.23	mg/m <sup>3</sup>	5.0
3.	Nitrogen Oxide	IS:5182 Part-VI	1.46	mg/m <sup>3</sup>	6.0
4.	Carbon Monoxide	IS:5182 Part-X	1.09	mg/m <sup>3</sup>	55.0

\*\*\*\*\*End of Report\*\*\*\*\*



Shri Om Testing & Research Laboratory

*R. Sharma*  
Technical Manager

Authorized Signatory

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4/4





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**N.A.B.L. Accredited, ISO 9001, ISO 14001 & ISO 45001 Certified Laboratory**

## TEST REPORT

Report Code no.: 30092021-22

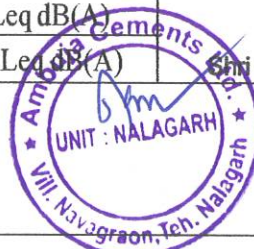
Issue Date : 30.09.2021

Issue to: M/s Ambuja Cement Ltd.,  
Nalagarh, Distt. Solan

### AMBIENT NOISE MONITORING DATA

Sample Drawn on : 22/09/2021  
Sample Drawn By : M/s Eco-Molecule Technologies & Soln.  
Sample Description : Cement Manufacturing  
Sampling Time : Day & Night  
Source of Emission : Ambient Noise

S.No.	Location Name	Method	Results	Standard Limits Leq dB(A)
1	Near Material Gate (Day Time), Leq dB(A)	IS:9989 (Reaffirmed 2014)	60.4	75.0
	Near Material Gate (Night Time), Leq dB(A)		29.4	70.0
2	Near Admin Building (Day Time), Leq dB(A)		54.6	75.0
	Near Admin Building (Night Time), Leq dB(A)		42.8	70.0
3	Near Scrap Yard (Day Time), Leq dB(A)		69.2	75.0
	Near Scrap Yard (Night Time), Leq dB(A)		43.4	70.0
4	Near STP on Road (Day Time), Leq dB(A)		65.2	75.0
	Near STP on Road (Night Time), Leq dB(A)		46.0	70.0
5	Near MPSS Building (Day Time), Leq dB(A)		68.5	75.0
	Near MPSS Building (Night Time), Leq dB(A)		46.2	70.0
6	In front of DO (Day Time), Leq dB(A)		68.3	75.0
	In front of DO (Night Time), Leq dB(A)		58.6	70.0
7	Near Borewell Dispensary (Day Time), Leq dB(A)		64.3	75.0
	Near Borewell Dispensary (Night Time), Leq dB(A)		52.0	70.0
8	Near Store Building (Day Time), Leq dB(A)		66.0	75.0
	Near Store Building (Night Time), Leq dB(A)		56.4	70.0
9	Near Weigh Bridge (Day Time), Leq dB(A)		61.7	75.0
	Near Weigh Bridge (Night Time), Leq dB(A)		52.6	70.0
10	Near Rain Water Harvesting Structure (Day Time), Leq dB(A)		68.4	75.0
	Near Rain Water Harvesting Structure (Night Time), Leq dB(A)		42.7	70.0



*R. Swain*  
Technical Manager  
Authorized Signatory

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## Annexure - 7

### AMBUJA CEMENT FOUNDATION - NALAGARH EXPENSES FOR THE YEAR 2020-21

Sr. No.	Programmes	Total Expenses
1	Water Resource Management	25808.00
2	Agro-Based Livelihood	1331313.00
3	SEDI	2356309.00
4	Education	9301.00
5	Health & Sanitation	5322827.00
6	Women Empowerment	573170.00
7	Rural Infrastructure	1380525.00
8	Unplanned	46557.00
9	Capital	51330.00
10	Establishment	720124.00
	<b>Total</b>	<b>11817264.00</b>





## AMBUJA CEMENTS LIMITED (UNIT - NALAGARH)

## CEMENT PRODUCTION DATA FROM APRIL 2021 TO SEPTEMBER 2021

MONTH	CEMENT PRODUCTION (METRIC TONNES)
APRIL 2021	96575
MAY 2021	54511
JUNE 2021	74800
JULY 2021	88128
AUGUST 2021	109058
SEPTEMBER 2021	142480
TOTAL	565552

