

Ref: ACL (Nlg)/EMD/2023/05/94

30<sup>th</sup> 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 April 28, 2020.

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**.

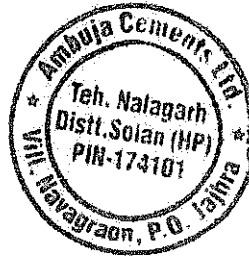
Hope you will find the information in order.

Thanking you.


Yours faithfully,

For **Ambuja Cements Limited (Unit: Nalagarh)**

  
30/05/23  
**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, - Hard Copy  
HP State Pollution Control Board,  
Baddi, Distt. Solan (H.P.)

**Ambuja Cements Limited**  
Unit - Nalagarh  
Village Navagraon, P.O. Jajhira,  
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

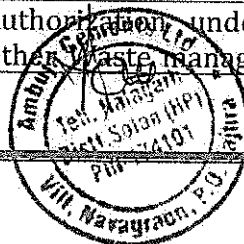
## Compliance of Conditions of Environment Clearance

Name of the Project: Ambuja Cements Ltd., Village Navagraon, P.O. Jajhra, Tehsil Nalagarh, Distt. Solan (H.P.) - 174101  
Expansion of Cement Plant by enhancing the cement production capacity (1.5 to 2.2 MTPA) in existing standalone grinding unit by Process Optimization

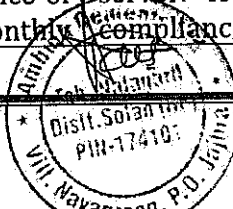
Clearance letter No.: J-11011/173/2008-IA-II (I) dated 28<sup>th</sup> April 2020

Period of Compliance: October 2022 to March 2023

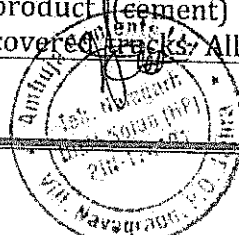
S. No.	Condition	Compliance Status
<b>I. Statutory Compliance</b>		
i.	The project proponent shall prepare a site-specific Conservation Plan & Wildlife Management Plan and approved by the Chief Wildlife Warden. The recommendations of the approved site-specific conservation plan/ Wildlife Management plan shall be implemented in consultation with the State Forest Department. The implementation report shall be furnished along with the six-monthly compliance report.	A site-specific Conservation Plan & Wildlife Management Plan has been prepared and approved by the Chief Wildlife Warden. As per approved plan, a sum of 27.5 Lacs will be provided to HP Forest Department for implementation of the recommendations of the approved site-specific conservation plan/ Wildlife Management plan. The expansion project has not started so the implementation report shall be furnished along with the six-monthly compliance report to be provided after getting Consent to Establish (CTE). Copy of Approval letter already submitted.
ii.	The project proponent shall obtain Consent to Establish/Operate under the provisions of Air (Prevention & Control of Pollution) Act, 1981 and the Water (Prevention & Control of Pollution) Act, 1974 from the concerned State Pollution Control Board / Committee.	The expansion project has not started. Consent to Establish for the proposed expansion is under process. Proposed project will be started only after getting CTE from HP state Pollution Control Board. Presently, the unit is having CTO for 1.5 MTPA of cement production which is valid up-to 31/03/2025.
iii.	The project proponent shall obtain the necessary permission from the Central Ground Water Authority, in case of drawl of ground water / from competent authority concerned in case of drawl of surface water required for the project.	No additional water will be required for the expansion project. We already have the required permission for drawl of ground water from HPGWA. So, the new permission will not be required.
iv.	The project proponent shall obtain authorization under Hazardous and	Authorization under Hazardous and Other Waste Management Rules, 2016



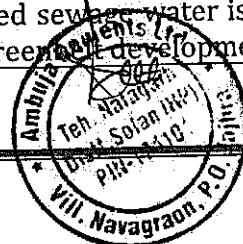
	Other Waste management Rules, 2016 as amended from time to time.	as amended from time to time has already been obtained and is valid up to 31.03.2024.
<b>II Air Quality Monitoring and Preservation</b>		
i.	The project proponent shall install 24x7 continuous emission monitoring system at process stacks to monitor stack emission with respect to standards prescribed in Environment (Protection) Rules, 1986 vide G.S.R. 612 (E) dated 25 <sup>th</sup> August, 2014 (Cement) and subsequent amendment dated 9 <sup>th</sup> May, 2016 (Cement) and connected to SPCB and CPCB online servers and calibrates these systems from time to time according to the equipment supplier specification through labs recognized under Environment (Protection) Act, 1986 or NABL accredited laboratories.	A continuous emission monitoring system has been installed at the process stack to monitor stack emission with respect to standards prescribed in Environment (Protection) Rules, 1986 vide G.S.R. 612 (E) dated 25 <sup>th</sup> August 2014 (Cement) and subsequent amendment dated 9 <sup>th</sup> May, 2016 (Cement) and connected to SPCB and CPCB online servers. The system is calibrated according to the equipment supplier specification.
ii.	The project proponent shall monitor fugitive emission in the plant premises at least once in every quarter through labs recognized under Environment (Protection) Act, 1986.	Fugitive emission in the plant premises is being monitored regularly. Last monitoring was done by M/s Environ Tech Laboratory (a NABL accredited laboratory and recognized under Environment (Protection) Act, 1986) on 14 <sup>th</sup> March 2023. Reports are attached as <b>Annexure 1</b> .
iii.	The project proponent shall install system carryout to Ambient Air Quality monitoring for common/criterion parameters relevant to main pollutants released (e.g. PM 10 and PM 2.5 in reference to PM emissions and SO <sub>2</sub> and NO <sub>x</sub> in reference to SO <sub>2</sub> and NO <sub>x</sub> emissions) within and outside the plant area at least at four locations (one within and three outside the plant area at an angle of 120° each) covering upwind and downwind directions.	6 manual monitoring stations have already been fixed as per guidance of HP State Pollution Control Board for carrying out Ambient Air Quality Monitoring out of which four are within plant and 2 outside plant. Last monitoring done by M/s Environ Tech 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 <b>Annexure 2</b> .
iv.	The project proponent shall submit monthly summary report of continuous stack emission and air quality monitoring and the results of manual stack monitoring and manual monitoring of ambient air quality/fugitive emissions to Regional Office of SPCB along with six monthly compliance report is also being	The summary of monthly Ambient Air quality and Stack emissions are submitted to regional office HPSPCB, Baddi on monthly basis and online Stack and CAAQMS are connected online with the HPSPCB and CPCB server. A copy of this Half yearly



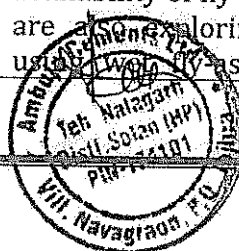
	monitoring report	submitted to HPSPCB. Existing Stack emission reports are attached as <b>Annexure 3.</b>
v.	Appropriate Air Pollution Control (APC) system shall be provided for all the dust generating points including fugitive dust from all vulnerable sources, so as to comply prescribed stack emission and fugitive emission standards	Each & every material transfer point is equipped with a bag filter to capture the dust generated during material conveying to maintain the Stack emission and Fugitive emissions within the prescribed standards. Existing Stack emission reports are attached as <b>Annexure 3.</b>
vi.	The project proponent shall provide leakage detection and mechanized bag cleaning facilities for better maintenance of bags.	Leakage detection is done through monitoring of false air entry to system. As far as bags cleaning is concerned, it is done automatically through air purging in the system and once the bag is damaged, it is replaced.
vii.	Pollution control system in the cement plant shall be provided as per CREP guidelines of CPCB.	CREP guidelines are followed and attached as <b>Annexure - 4</b>
viii.	Sufficient number of mobile or stationary vacuum cleaners shall be provided to clean plant roads, shop floors, roofs regularly.	Two numbers of Mobile vacuum cleaners (One Tenant machine and one truck mounted suction machine) have been provided in the plant for cleaning of plant and the roads inside the plant. Apart from this one stationary Vacuum cleaning machine is provided for cleaning of dust generated in packing plant area.
ix.	Ensure covered transportation and conveying of raw materials to prevent spillage and dust generation; use closed bulkers for carrying fly ash.	Clinker, Gypsum and wet fly ash are transported in covered body trucks. Fly ash is carried by Bulklers/Closed body trucks to prevent spillage and dust generation.
x.	Provide wind shelter fence and chemical spraying on the raw materials stockpiles.	Clinker and dry Fly ash are stored in Silos and Gypsum, Wet ash are stored in covered shed. In the case of exigency, if any raw material is to be stored in open area, it will be kept covered to prevent any fugitive emission.
xi.	Have separate truck parking area and monitor vehicular emission at regular intervals.	We have a properly designed Truck parking area. Vehicular emission is monitored through random checking of PUC of the vehicle entering to the plant.
xii.	Efforts shall be made to reduce impact of the transportation of the raw materials and end products on the	All the raw materials and the final product (cement) are transported in covered trucks. All the conveyor belts



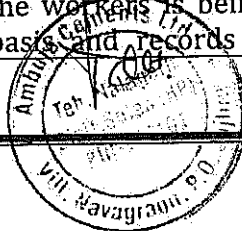
	surrounding environment including agricultural land by the use of covered conveyor belts/railways as a mode of transportation.	in the plant are completely covered.
xiii.	Ventilation system shall be designed for adequate air changes as per ACGIH document for all tunnels, motor houses, cement bagging plants	Ventilation systems are designed for adequate air changes for all tunnels, motor houses, and cement bagging plants.
<b>III. Water Quality Monitoring and Preservation</b>		
i.	The project proponent shall install effluent monitoring system with respect to standards prescribed in Environment (Protection) Rules, 1986 vide G.S.R. 612 (E) dated 25 <sup>th</sup> August, 2014 (Cement) and subsequent amendment dated 9 <sup>th</sup> May, 2016 (Cement) and connected to SPCB and CPCB online servers and calibrates these systems from time to time according to the equipment supplier specification through labs recognized under Environment (Protection) Act, 1986 or NABL accredited laboratories.	This point is not applicable as there is no effluent generated from the cement manufacturing process. However domestic sewage generated is treated in the Sewage Treatment Plants and 100% reused in the Green Belt Development. Zero Liquid Discharge achieved.
ii.	The project proponent shall monitor regularly ground water quality at least twice a year (pre and post monsoon) at sufficient numbers of piezometers/sampling wells in the plant and adjacent areas through labs recognized under Environment (Protection) Act, 1986 or NABL accredited laboratories.	Testing of Ground Water quality for the bore wells has been carried out by M/s Environ Tech Laboratory (a NABL accredited laboratory and recognized under Environment (Protection) Act, 1986) on 14 <sup>th</sup> March 2023. The reports are attached as <b>Annexure - 5</b>
iii.	The project proponent shall submit monthly summary report of continuous effluent monitoring and the results of manual effluent testing and manual monitoring of ground water quality to Regional Office of MoEF&CC, Zonal office of CPCB and Regional office of SPCB along with six monthly monitoring report	Continuous effluent Monitoring is not applicable as there is no effluent generated from the process. However, the treated waste water is 100% reused for greenbelt development. Last sampling done by M/s Environ Tech Laboratory (a NABL accredited laboratory and recognized under Environment (Protection) Act, 1986) on 14 <sup>th</sup> March 2023. The reports are well within the limits and attached as <b>Annexure - 6.</b>
iv.	Adhere to 'Zero Liquid Discharge'.	Zero liquid discharge is maintained.
v.	Sewage treatment plant shall be provided for treatment of domestic wastewater to meet the prescribed standards.	Two numbers of Sewage treatment Plants have been provided for the treatment of domestic sewage and the treated sewage water is 100% re used for green belt development in plant.



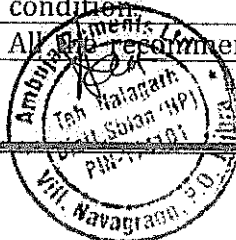
vi.	Garland drains and collection pits shall be provided for each stockpile to arrest the run-off in the event of heavy rains and to check the water pollution due to surface run off.	There is no open stockpile. All the raw materials are either stored in Silos/sheds or kept covered.
vii.	The project proponent shall practice rainwater harvesting to maximum possible extent.	Three rainwater harvesting structures are provided and connected with proper drainage system to collect the water.
viii.	Water meters shall be provided at the inlets to all processes in the cement plant.	This is only a cement grinding unit. Water meter has been provided at the inlet of grinding mill to capture the water consumption in the grinding process.
ix.	The project proponent shall make efforts to minimize water consumption in the cement plant complex by segregation of used water, practicing cascade use and by recycling treated water.	All the possible efforts are made to minimize the water consumption in the plant. 100% of treated water is reused for greenery development in the plant. Leakages are repaired on time.
<b>IV. Noise Monitoring and Preservation</b>		
i.	Noise Level survey shall be carried as per the prescribed guidelines and report in this regard, shall be submitted to Regional Officer of the Ministry as a part of six-monthly compliance report.	Noise Level monitoring done by M/s Environ Tech Laboratory (a NABL accredited laboratory and recognized under Environment (Protection) Act, 1986) on 14 <sup>th</sup> March 2023. Report is attached as <b>Annexure - 7</b> .
ii.	The ambient noise levels should conform to the standards prescribed under E(P)A Rules, 1986 viz. 75 dB(A) during day time and 70 dB(A) during night time.	Ambient Noise conform to the standards prescribed under E(P)A Rules, 1986 viz. 75 dB(A) during daytime and 70 dB(A) during nighttime.
<b>V. Energy Conservation Measures</b>		
i.	Provide Solar Power Generation on roof tops of the buildings, for solar light system for all common areas, street lights, parking around project area and maintain the same regularly.	Solar water heating systems have been installed at Canteen, bachelor's accommodation, truck parking area and truck yard. Solar lighting is provided at roof top of Central Control Room building and maintained regularly.
ii.	Provide the project proponent for LED lights in their offices and residential areas.	LED lights/bulbs are provided in all the offices.
iii.	Maximize utilization of Fly ash, slag and sweetener in the cement blend as per BIS standards.	Every effort is being made to maximize the usage of fly ash in cement up to 35% as per BIS Standards. But availability of fly ash is an issue. So, we are exploring the possibility of using <del>fly ash</del> fly ash which is lying in



		abundance in the vicinity of Thermal Plants causing health and environmental problems to the community.
<b>VI. Waste Management</b>		
i.	The waste oil, Grease and other hazardous shall be disposed of as per the Hazardous & Other Waste (Management & Transboundary Movement) Rules, 2016	All the Hazardous wastes generated in plant are disposed to the authorized vendors as per the Hazardous & Other Waste (Management & Transboundary Movement) Rules, 2016
ii.	Kitchen waste shall be composted or converted to biogas for further use.	Two numbers of Organic Bio-Composters have been installed in the plant to convert the Kitchen waste into Bio-compost. Leachate generated is also used as Bio-Pesticide.
<b>VII. Green Belt</b>		
i.	Green belt shall be developed in an area equal to 33% of the plant area with a native tree species in accordance with CPCB guidelines. The greenbelt shall inter alia cover the entire periphery of the plant.	Greenbelt has been developed in and around the plant premises with native tree species in accordance with CPCB guidelines. Total Green cover is more than 35% of the total area.
ii.	The project proponent shall prepare GHG emission inventory for the plant and shall submit the programme for reduction of the same including Carbon sequestration including plantation.	The condition will be complied.
<b>VIII. Public Hearing and Human Health Issues</b>		
i.	Emergency Preparedness plan based on the Hazard Identification and Risk Assessment (HIRA) and Disaster Management Plan shall be implemented.	Emergency Preparedness plan based on the Hazard Identification and Risk Assessment (HIRA) and disaster Management Plan has been made and implemented.
ii.	The PP shall provide Personal Protection Equipment (PPE) as per the norms of Factory Act	Personal Protective Equipment has been provided to each & every individual.
iii.	Provision shall be made for the housing of construction labour within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile STP, safe drinking water, medical health care, crèche etc. The housing may be in the form of temporary structures to be removed after completion of the project.	There will be no construction in the proposed project, so this point is not applicable. Provisions have already been made for the present manpower in the existing plant.
iv.	Occupational Health Surveillance of the workers shall be done on regular basis and records maintained as per the	Occupational Health Surveillance of the workers is being done on regular basis and records maintained in the

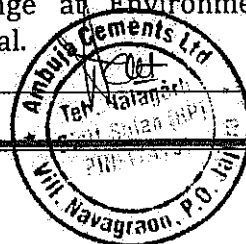


	Factories Act.	occupational health centre.
<b>IX. Corporate Environment Responsibility.</b>		
i.	The Project Proponent shall comply with the provisions contained in this Ministry's OM vide F.No.22-65/2017-IA.III dated 1 <sup>st</sup> May 2018, as applicable, regarding Corporate Environment Responsibility.	The provisions contained in this Ministry's OM vide F.No.22-65/2017-IA.III dated 1 <sup>st</sup> May 2018, as applicable; regarding Corporate Environment responsibility will be followed.
ii.	The company shall have a well laid down environmental policy duly approved by the Board of Directors. The environmental policy should prescribe for standard operating procedures to have proper checks and balances and to bring into focus any infringements/ deviations/ violations of the environmental/ forest/ wildlife norms/ conditions and/ or shareholders/ stake holders. The copy of the board resolution in this regard shall be submitted to the MoEF&CC as a part of six-monthly report.	The company has a well laid down Environmental Policy duly approved by Executive Committee of the Company. The same will be taken for Board's resolution.
iii.	A separate Environmental Cell both at the project and company headquarter level with qualified personnel shall be set up under the control of senior Executive, who will directly to the head of organization.	A separate Environmental Cell both at the project and company headquarter level with qualified personnel has been set up under the control of senior Executive who directly report to the head of organization.
iv.	Action plan for implementing EMP and environmental conditions along with responsibility matrix of the company shall be prepared and shall be duly approved by competent authority. The year wise funds earmarked for environmental protection measures shall be kept in separate account and not to be diverted for any other purpose. Year wise progress of implementation of action plan shall be reported to the Ministry/Regional Office along with the six-monthly compliance report.	The proposed project has not been started yet. The point shall be complied.
v.	Self-environmental audit shall be conducted annually. Every three years third party environmental audit shall be carried out.	Self-environmental audit conducted annually for the existing project and shall be complied after proposed expansion. Third party environmental audit shall be carried out as per the condition.
vi.	All the recommendations made in the	All the recommendations made in the

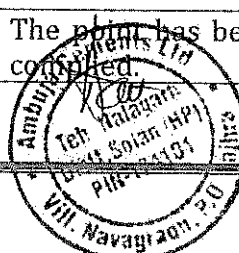




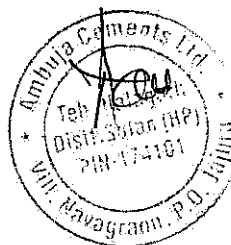
	Charter on Corporate Responsibility for Environment Protection (CREP) for the cement plants shall be implemented	charter of Corporate Responsibility for Environment Protection (CREP) for the cement plants have already been implemented and attached as attached as <b>Annexure - 4</b>
<b>X. Miscellaneous</b>		
i.	The project proponent shall make public the environmental clearance granted for their project along with the environmental conditions and safeguards at their cost by prominently advertising it at least in two local newspapers of the District or State of which one shall be in vernacular language within seven days and in addition this shall also be displayed in the project proponent's website permanently.	Environmental clearance granted for the project along with the environmental conditions and safeguards was published in two local newspapers of the district or state, one in Hindi and the other one in English within seven days of issue i.e., on 6 <sup>th</sup> May 2020. The copies of newspaper cuttings have been submitted with half yearly compliance from April 2020 to September 2020 through email dated 30.09.2020. The same had also been displayed in the company's website.
ii.	The copies of the environmental clearance shall be submitted by the project proponent to the Heads of local bodies, Panchayats and Municipal Bodies in addition to the relevant offices of the Government who in turn has to display the same for 30 days from the date of receipt.	The copies of Environmental Clearance letter have been submitted to the concerned Governmental authorities as well as the local bodies/ Panchayats. The copies/ receipts have already been submitted with half yearly compliance from April 2020 to September 2020 through email dated 30.09.2020.
iii.	The project proponent shall upload the status of compliance of the stipulated environmental clearance conditions, including results of monitoring data on their website and update the same on half yearly basis.	This compliance report will be uploaded on the company's website.
iv.	The project proponent shall monitor the criteria pollutants level namely; PM <sub>10</sub> , SO <sub>2</sub> , NO <sub>x</sub> (ambient level as well as stack emissions) or critical sectorial parameters, indicated for the project and display the same at a convenient location for disclosure to the public and put on the website of the company.	The Criteria pollutants level namely; PM <sub>10</sub> , SO <sub>2</sub> , NO <sub>x</sub> (ambient level as well as stack emissions) are monitored through online monitoring station and are connected with CPCB and HPSPCB online which is put at public domain by HP State Pollution Control Board for the disclosure to the public.
v.	The project proponent shall submit six-monthly reports on the status of the compliance of the stipulated environmental conditions on the website of the ministry of Environment, Forests and Climate Change at Environmental Clearance portal	Six-monthly reports on the status of the compliance of the stipulated environmental conditions is submitted regularly and posted on the ministry of Environment, Forests and Climate Change at Environmental Clearance portal.



vi.	The project proponent shall submit the environmental statement for each financial year in Form-V to the concerned State Pollution Control Board as prescribed under Environment (Protection) Rules, 1986 as amended subsequently and put on the website of the company.	Environmental statement for each financial year in Form-V is filed online to the concerned State Pollution Control Board through the system designed by the State Board, as prescribed under Environment (Protection) Rules, 1986 as amended subsequently. The same will also be put on the company's website.
vii.	The project proponent 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, commencing of the land development work and start of production operation by the project.	EC was granted by MoEF&CC on 28 <sup>th</sup> April 2020. The project activities have not yet been started.
viii.	The project authorities must strictly adhere to the stipulations made by the State Pollution Control Board and the State Government.	All the stipulations made by the State Pollution Control Board and the State Government will be adhered.
ix.	The project proponent shall abide by all the commitments and recommendations made in the EIA/EMP report, commitment made during Public Hearing and also that during their presentation to the expert Appraisal Committee	All the commitments and recommendations made in the EIA/EMP report, commitment made during Public Hearing and that during the presentation to the expert Appraisal Committee shall be fulfilled.
x.	No further expansion or modification in the plant shall be carried out without prior approval of the Ministry of Environment, Forests and Climate Change (MoEF&CC)	The point has been noted and further expansion or modification will be done only after getting approval from the Ministry of Environment, Forests and Climate Change (MoEF&CC)
xi.	Concealing factual data or submission of false/fabricated data may result in revocation of this environmental clearance and attract action under the provisions of Environment (Protection) Act, 1986	The point has been noted.
xii.	The ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.	The point has been noted and accepted.
xiii.	The ministry reserves the right to stipulate additional conditions if found necessary. The company in a time bound manner shall implement these conditions.	The point has been noted.
xiv.	The Regional Office of this Ministry shall monitor compliance of the	The point has been noted and will be



	stipulated conditions. The project authorities should extend full co-operation to the officer(s) of the Regional Office by furnishing the requisite data/ information/ monitoring reports.	
xv.	The above conditions shall be enforced, inter-alia under the provisions of the Water (Prevention & Control of Pollution) Act, 1974, the Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986, Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016 and the Public Liability Insurance Act, 1991 along with their amendments and Rules and other orders passed by Hon'ble Supreme Court of India/ High Courts and any other Court of Law relating to the subject matter.	The point has been noted and complied.
xvi.	Any appeal against this EC shall lie with the National Green Tribunal, if preferred, within a period of 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010 This issues with the approval of Competent Authority.	The point has been noted.



# Environ Tech Laboratories *Annexure-1*

CPCB Recognized under Environment (Protection) Act, 1986; OHSAS ISO 45001:2018

Plot No. C-101, Industrial Area, Phase -VII, Sector-73, Mohali, Punjab- 160059  
Mob. 9464000081, 9417220081, 9417210081, (O) 94630-00081, 0172-4630081  
GSTIN : 03BPEPS9693P1ZV, PAN No. BPEPS9693P

## TEST REPORT

DISPATCH No:-ETL/DSP/233505

To  
M/s AMBUJA CEMENT LIMITED  
VILLAGE NAVAGAON, TEHSIL NALAGARH  
DISTRICT SOLAN, HIMACHAL PRADESH

Report No.	ETL/44/2023/G/232817	Report Date	29.09.2023
Customer Ref. No.	NIL	Type of Sample	Work Zone Fugitive emission
Sample Code Given by Customer	NIL	Date of Sampling	14.09.2023
Sampling Location	Packing Floor	Date of Sample Receipt	15.09.2023
Sample Collected By	K.K.Mishra, Field Officer	Sample I.D.	ETL/52/2023/G/2317
Sampling Procedure	ETL/STP/26	Date of testing	15.09.2023 & 20.09.2023

S.No	TECHNICAL DATA	
1	Location of Sampling Station	Packing Floor
2	Source of Sampling	Fugitive Emission
3	Temperature of Sampling Location	29°C
4	Environmental Condition	Max temp. 30°C Min temp. 18°C
5	Flow Rate of Sampling	1.0 LPM
6	Time Period for Sampling	480 min

S.No.	PARAMETERS	RESULTS ug/m3	Limit(mg/m3) (as per Factory act 1948(Section-41-F))	STATUS
1.	Suspended Particulate Matter (SPM)	6.9	10	100% Pass

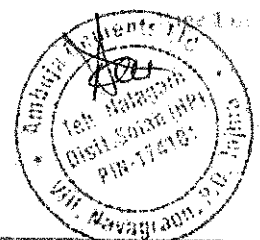
Note:

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

\* End of Report \*

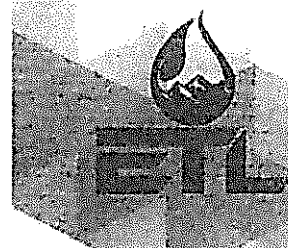
(Authorized Signatory)

ETL/STP/26  
K.K.Mishra  
Environ Tech Laboratories



1/8

Testing of Water, Waste Water, Soil, Biological Testing; Monitoring of Ambient Air, Stack Emission,  
Work Zone Monitoring, Noise, Ventilation, LUX & Weather Monitoring  
Email : [environtechlab72@yahoo.com](mailto:environtechlab72@yahoo.com) | Website : [www.environtechlab.com](http://www.environtechlab.com)  
NOT VALID FOR LEGAL PURPOSE



# Environ Tech Laboratories

CPCB Recognized under Environment (Protection) Act, 1986; OHSAS ISO 45001:2018

Plot No. C-101, Industrial Area, Phase -VII, Sector-73, Mohali, Punjab- 160059  
Mob. 9464000081, 9417220081, 9417210081, (O) 94630-00081, 0172-4630081  
GSTIN : 03BPEPS9693P1ZV, PAN No. BPEPS9693P

## TEST REPORT

DISPATCH No:-ETL/DSP/233506

To  
M/s AMBUJA CEMENT LIMITED  
VILLAGE NAVAGAON, TEHSIL NALAGARH  
DISTRICT SOLAN, HIMACHAL PRADESH

Report No.	ETL/44/2023/G/232818	Report Date	29.03.2023
Customer Ref. No.	NIL	Type of Sample	Work Zone Fugitive Emission
Sample Code Given by Customer	NIL	Date of Sampling	14.03.2023
Sampling Location	Flyash Loading Area	Date of Sample Receipt	15.03.2023
Sample Collected By	K.K.Mishra, Field Officer	Sample I.D.	ETL/32/2023/G/2818
Sampling Procedure	ETL/STP/26	Date of testing	15.03.2023-29.03.2023

S.No	TECHNICAL DATA	
1	Location of Sampling Station	Flyash Loading Area
2	Source of Sampling	Fugitive Emission
3	Temperature of Sampling Location	29°C
4	Environmental Condition	Max temp. 30°C Min temp. 18°C
5	Flow Rate of Sampling	1.0 LPM
6	Time Period for Sampling	480 min

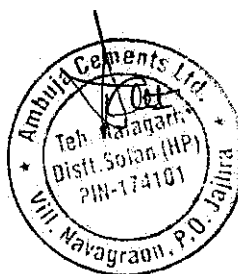
S.No.	PARAMETERS	RESULTS ug/m3	Limit(mg/m <sup>3</sup> ) (as per Factory act 1948(Section-31-F))	TEST METHOD
1.	Suspended Particulate Matter (SPM)	7.5	10	NIOSH 0509

### Note:

1. 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 test report unless otherwise specified.



\*End of Report\*



(Authorized Signatory)

ANITA SINGH SAINI  
Technical Manager  
Environ Tech Laboratories

Page 1 of 1

2/8

Testing of Water, Waste Water, Soil, Biological Testing; Monitoring of Ambient Air, Stack Emission,  
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GSTIN : 03BPEPS9693P1ZV, PAN No. BPEPS9693P

## TEST REPORT

DISPATCH No:-ETL/DSP/233567

To  
M/s AMBUJA CEMENT LIMITED  
VILLAGE NAVAGAON, TEHSIL NALAGARH  
DISTRICT SOLAN, HIMACHAL PRADESH

Report No.	ETL/44/2023/G/232819	Report Date	29.03.2023
Customer Ref. No.	NIL	Type of Sample	Work Zone Fugitive Emission
Sample Code Given by Customer	NIL	Date of Sampling	14.03.2023
Sampling Location	Gypsum Loading Area	Date of Sample Receipt	15.03.2023
Sample Collected By	K.K.Mishra, Field Officer	Sample I.D.	ETL/12/2023/G/2019
Sampling Procedure	ETL/STP/26	Date of testing	15.03.2023-29.03.2023

S.No	TECHNICAL DATA	
1	Location of Sampling Station	Gypsum Loading Area
2	Source of Sampling	Fugitive Emission
3	Temperature of Sampling Location	29°C
4	Environmental Condition	Max temp. 30°C Min temp. 18°C
5	Flow Rate of Sampling	1.0 LPM
6	Time Period for Sampling	480 min

S.No.	PARAMETERS	RESULTS ug/m3	Limit(mg/m <sup>3</sup> ) (as per Factory act 1948(Section-41-F)	TEST BY RTO
1.	Suspended Particulate Matter (SPM)	8.1	10	RODRI (SPM)

### Note:

- The test report refers only to tested sample and applicable parameters.
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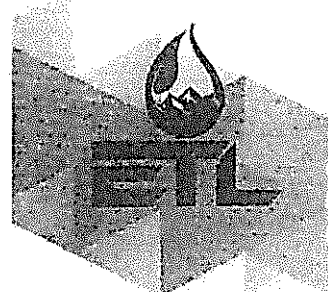
\*End of Report\*

(Authorized Signatory)

AMBUJA CEMENTS LTD.  
Technical Manager  
Environ Tech Laboratories  
Plot No. C-101



Testing of Water, Waste Water, Soil, Biological Testing; Monitoring of Ambient Air, Stack Emission,  
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GSTIN : 03BPEPS9693P1ZV, PAN No. BPEPS9693P

## TEST REPORT

DISPATCH No:-ETL/DSP/233508

To  
M/s AMBUJA CEMENT LIMITED  
VILLAGE NAVAGAON, TEHSIL NALAGARH  
DISTRICT SOLAN, HIMACHAL PRADESH

Report No.	ETL/44/2023/G/232820	Report Date	29.03.2023
Customer Ref. No.	NIL	Type of Sample	Work Zone Fugitive Emission
Sample Code Given by Customer	NIL	Date of Sampling	14.03.2023
Sampling Location	Loading Floor	Date of Sample Receipt	15.03.2023
Sample Collected By	K.K.Mishra, Field Officer	Sample I.D.	ETL/32/2023/G/2820
Sampling Procedure	ETL/STP/26	Date of testing	15.03.2023 & 29.03.2023

S.No	TECHNICAL DATA	
1	Location of Sampling Station	Loading Floor
2	Source of Sampling	Fugitive Emission
3	Temperature of Sampling Location	29°C
4	Environmental Condition	Max temp. 30°C Min temp. 18°C
5	Flow Rate of Sampling	1.0 LPM
6	Time Period for Sampling	480 min

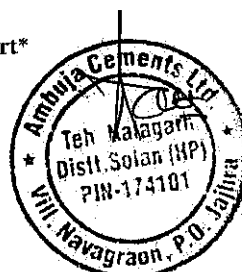
S.No.	PARAMETERS	RESULTS ug/m3	Limit(mg/m³) (as per Factory act 1948(Section-41-F))	TEST METHOD
1.	Suspended Particulate Matter (SPM)	7.6	10	NIOSH 0520

### Note:

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



\*End of Report\*



(Authorized Signatory)  
K.K. Mishra  
Technical Manager  
Environ Tech Laboratories

4/18

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GSTIN : 03BPEPS9693P1ZV, PAN No. BPEPS9693P

## TEST REPORT

DISPATCH No:-ETL/DSP/2335059

To  
M/s AMBUJA CEMENT LIMITED  
VILLAGE NAVAGAON, TEHSIL NALAGARH  
DISTRICT SOLAN, HIMACHAL PRADESH

Report No.	ETL/44/2023/G/232821	Report Date	29.03.2023
Customer Ref. No.	NIL	Type of Sample	Work Zone Fugitive Emission
Sample Code Given by Customer	NIL	Date of Sampling	14.03.2023
Sampling Location	Weigh Bridge	Date of Sample Receipt	15.03.2023
Sample Collected By	K.K.Mishra, Field Officer	Sample I.D.	ETL/44/2023/G/232821
Sampling Procedure	ETL/STP/26	Date of testing	15.03.2023 (29.03.2023)

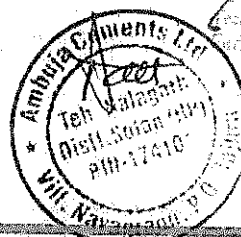
S.No	TECHNICAL DATA	
1	Location of Sampling Station	Weigh Bridge
2	Source of Sampling	Fugitive Emission
3	Temperature of Sampling Location	29°C
4	Environmental Condition	Max temp. 30°C Min temp. 18°C
5	Flow Rate of Sampling	1.0 LPM
6	Time Period for Sampling	480 min

S.No.	PARAMETERS	RESULTS ug/m3	Limit(mg/m <sup>3</sup> ) (as per Factory act 1948(Section-41-2))	TEST METHOD
1.	Suspended Particulate Matter (SPM)	8.3	10	ISO 14644-1

### Note:

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\*End of Report\*



(Authorized Signatory)

Signature  
Name  
Designation  
Date

5/8

Testing of Water, Waste Water, Soil, Biological Testing; Monitoring of Ambient Air, Stack Emission,  
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GSTIN : 03BPEPS9693P1ZV, PAN No. BPEPS9693P

## TEST REPORT

DISPATCH No:-ETL/DSP/ 2335010

To  
M/s AMBUJA CEMENT LIMITED  
VILLAGE NAVAGAON, TEHSIL NALAGARH  
DISTRICT SOLAN, HIMACHAL PRADESH

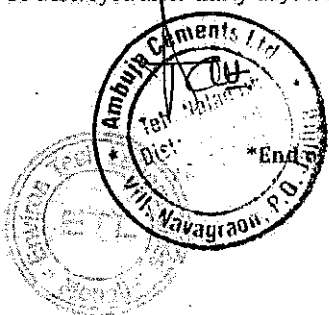
Report No.	ETL/44/2023/G/232822	Report Date	29.03.2023
Customer Ref. No.	NIL	Type of Sample	Work Zone Fugitive Emission
Sample Code Given by Customer	NIL	Date of Sampling	14.03.2023
Sampling Location	Hopper Building	Date of Sample Receipt	15.03.2023
Sample Collected By	K.K.Mishra, Field Officer	Sample I.D.	ETL/32/2023/C/2322
Sampling Procedure	ETL/STP/26	Date of testing	15.03.2023 & 29.03.2023

S.No	TECHNICAL DATA	
1	Location of Sampling Station	Hopper Building
2	Source of Sampling	Fugitive Emission
3	Temperature of Sampling Location	29°C
4	Environmental Condition	Max temp. 30°C Min temp. 18°C
5	Flow Rate of Sampling	1.0 LPM
6	Time Period for Sampling	480 min

S.No.	PARAMETERS	RESULTS ug/m3	Limit(mg/m³) (as per Factory act 1948(Section-41-F))	TEST METHOD
1.	Suspended Particulate Matter (SPM)	7.2	10	NIOSH 0500

### Note:

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[Signature]  
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6/8

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GSTIN : 03BPEPS9693P1ZV, PAN No. BPEPS9693P

DISPATCH No:- ETL/DSP/2335011

## TEST REPORT

To  
M/s AMBUJA CEMENT LIMITED  
VILLAGE NAVAGAON, TEHSIL NALAGARH  
DISTRICT SOLAN, HIMACHAL PRADESH

Report No.	ETL/44/2023/G/232823	Report Date	29.03.2023
Customer Ref. No.	NIL	Type of Sample	Work Zone - Fugitive Emission
Sample Code Given by Customer	NIL	Date of Sampling	14.03.2023
Sampling Location	Clinker Tippler	Date of Sample Receipt	15.03.2023
Sample Collected By	K.K.Mishra, Field Officer	Sample I.D.	ETL/32/2023/G/2023
Sampling Procedure	ETL/STP/26	Date of testing	15.03.2023 - 29.03.2023

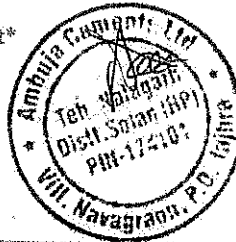
S.No	TECHNICAL DATA	
1	Location of Sampling Station	Clinker Tippler
2	Source of Sampling	Fugitive Emission
3	Temperature of Sampling Location	29°C
4	Environmental Condition	Max temp. 30°C Min temp. 18°C
5	Flow Rate of Sampling	1.0 LPM
6	Time Period for Sampling	480 min

S.No.	PARAMETERS	RESULTS ug/m3	Limit(mg/m <sup>3</sup> ) (as per Factory act 1948(Section-41-B))	TEST METHOD
1.	Suspended Particulate Matter (SPM)	8.2	10	MOIST (0.00)

Note:

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

\*End of Report\*



(Authorized Signatory)  
K. K. Mishra  
Teh. Nalagarh, Distt. Solan (HP)  
Environ Tech Laboratories

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Testing of Water, Waste Water, Soil, Biological Testing; Monitoring of Ambient Air, Stack Emission,  
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GSTIN : 03BPEPS9693P1ZV, PAN No. BPEPS9693P

## TEST REPORT

DISPATCH No:-ETL/DSP/2335012

To  
M/s AMBUJA CEMENT LIMITED  
VILLAGE NAVAGAON, TEHSIL NALAGARH  
DISTRICT SOLAN, HIMACHAL PRADESH

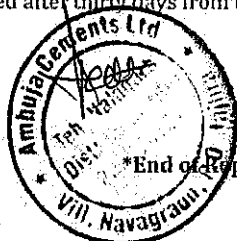
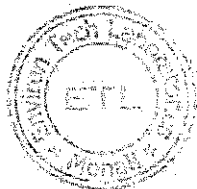
Report No.	ETL/44/2023/G/232824	Report Date	29.03.2023
Customer Ref. No.	NIL	Type of Sample	Work Zone Fugitive Emission
Sample Code Given by Customer	NIL	Date of Sampling	14.03.2023
Sampling Location	VRM Building	Date of Sample Receipt	15.03.2023
Sample Collected By	K.K.Mishra, Field Officer	Sample I.D.	ETL/44/2023/G/232824
Sampling Procedure	ETL/STP/26	Date of testing	15.03.2023-29.03.2023

S.No	TECHNICAL DATA	
1	Location of Sampling Station	VRM Building
2	Source of Sampling	Fugitive Emission
3	Temperature of Sampling Location	29°C
4	Environmental Condition	Max temp. 30°C Min temp. 18°C
5	Flow Rate of Sampling	1.0 LPM
6	Time Period for Sampling	480 min

S.No.	PARAMETERS	RESULTS ug/m3	Limit(mg/m <sup>3</sup> ) (as per Factory act 1948(Section-41-F))	TEST METHOD
1.	Suspended Particulate Matter (SPM)	8.1	10	IS 518:1950

### Note:

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\*End of Report\*

(Authorized Signatory)

ATUL KUMAR  
Tech. Manager  
Environ Tech Lab

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Testing of Water, Waste Water, Soil, Biological Testing; Monitoring of Ambient Air, Stack Emission,  
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# Environ Tech Laboratories

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Plot No. C-101, Industrial Area, Phase VII, Sector 73, Mohali, Punjab - 160059  
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GSTIN : 03BPEPS9693P1ZV, PAN No. BPEPS9693P



## TEST REPORT

DISPATCH No: ETL/DSP/23 3389

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

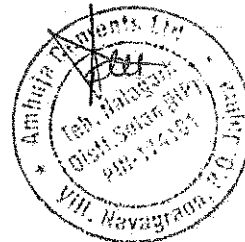
Report No.	ETL/44/2023/G/232793	Report Date	29.03.2023
Customer Ref. No.	2800943057/NE29/07.03.2023	Type of Sample	Ambient Air
Sample Code Given by Customer	NIL	Date of Sampling	14.03.2023 -15.03.2023
Sampling Location	Labour Hutment towards Jajhra	Date of Sample Receipt	15.03.2023
Sample Collected By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

S.No	TECHNICAL DATA (PART-A)	
1	Location of Sampling Station	Station no. 1 (Labour Hutment towards Jajhra)
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	0.2 LPM
8	Volume of air Sampled(m <sup>3</sup> )	1440 Min
		1.39

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

### Note:

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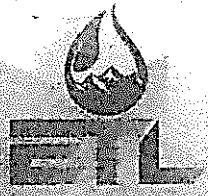
Environ Tech Laboratories  
Village Navagraon, P.O. Jajhra

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Testing of Water, Waste Water, Soil, Food, Monitoring of Ambient Air, Indoor Noise, Stack Emission & LUX

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# Environ Tech Laboratories

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Plot No. C-101, Industrial Area, Phase-VII Sector 73, Mohali, Punjab - 160059  
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GSTIN : 03BPEPS9693P1ZV, PAN No. BPEPS9693P

## TEST REPORT

DISPATCH No-ETL/DSP/23 3389

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/232793	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	Labour Hutment towards Jujhru	Date of Sample Receipt	15.03.2023
Sample Collected By	K.K.Mishra, Field Officer	Sample ID	ETL/32/2023/2793
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.1 (Labour Hutment towards Jujhru)	
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 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)	1.39	

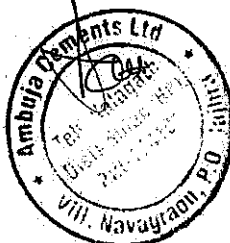
Sr. No.	PARAMETERS	RESULTS	STANDARD	DETECTION LIMIT	TEST METHOD
1	CO	BDL	4.0 mg/m <sup>3</sup> (1 hr)	0.5 µg/m <sup>3</sup>	IS:5182(P-10) Iodine Pentoxide method
2	Nickel (Ni)	BDL	20.0 ng/m <sup>3</sup>	15 ng/m <sup>3</sup>	IS 5182(Pt-26):2020
3	Arsenic (As)	BDL	6.0 ng/m <sup>3</sup>	5.0 ng/m <sup>3</sup>	IS 5182(Pt-26):2020
4	Lead (Pb)	BDL	1.0 µg/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 µg/m <sup>3</sup>	0.5 µg/m <sup>3</sup>	IS 5182(Pt-11):2006
6	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/m <sup>3</sup>	IS 5182(Pt-25):2018
8	Ozone (O <sub>3</sub> )	BDL	180.0 µg/m <sup>3</sup> (1 hr)	5.0 µg/m <sup>3</sup>	CPCB Guideline

Note:

BDL denotes below detection limit

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

(Authorized Signatory)



\*End of Report\*

AJAY SINGH SANGH  
Technical Manager  
Environ Tech Laboratories

Page 2 of 2

2/2

Testing of Water, Waste Water, Soil, Food, Monitoring of Ambient Air, Indoor Air, Noise, Stack Emission & LUX

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# Environ Tech Laboratories

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 : 03BPEPS9693P12V, PAN No. BPEPS9693P



TC-5879

## TEST REPORT



DISPATCH No:-ETL/DSP/233390

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

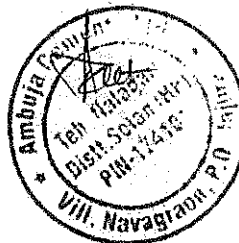
Report No.	ETL/44/2023/G/232794	Report Date	29.03.2023
Customer Ref. No.	2800943057/NE29/07.03.2023	Type of Sample	Ambient Air
Sample Code Given by Customer	NIL	Date of Sampling	14.03.2023 - 15.03.2023
Sampling Location	Station No.2, Near Rain Water Harvesting structure	Date of Sample Receipt	15.03.2023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

S.No	TECHNICAL DATA (PART-A)	
1	Location of Sampling Station	Station No.2, Near Rain Water Harvesting structure
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 0.2 LPM
7	Time Period for Sampling	1440 Min
8	Volume of air Sampled(m <sup>3</sup> )	1.43

S.No.	PARAMETERS	RESULTS	STANDARD	DETECTION LIMIT	TEST METHOD
1.	Respirable Suspended Particulate Matter (PM <sub>10</sub> )	83.7	100.0 µg/m <sup>3</sup>	-	IS:5182(Pt-23):2006, Reaffirmed 2017
2.	Sulphur Dioxide (SO <sub>2</sub> )	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/m <sup>3</sup>	-	IS:5182(Pt-6):2006, Reaffirmed 2017
4.	Fine Particulate Matter (PM <sub>2.5</sub> )	41.3	60.0 µg/m <sup>3</sup>	-	IS: 5182(Pt-24):2019

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



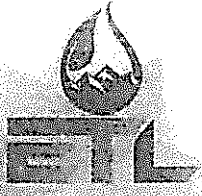
(Authorized Signatory)

APRIMA SINGH  
Technical Manager  
Environ Tech Laboratories

Page 1 of 1

Testing of Water, Waste Water, Soil, Food, Monitoring of Ambient Air, Indoor Noise, Stack Emission & LUX  
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Mob. 94640-00081, 94172-20081, 94172-10081, (O) 94630-00081, 0172-4630081  
GSTIN : 03BPEPS9693P1ZV, PAN No. BPEPS9693P

## TEST REPORT

DISPATCH No:-ETL/DSP/23 3390

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, Field Officer	Sample I.D.	ETL/32/2023/2794
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.2 Near Rain Water Harvesting structure
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 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(m <sup>3</sup> )	143

Sr. No.	PARAMETERS	RESULTS	STANDARD	DETECTION LIMIT	TEST METHOD
1	CO	BDL	4.0 mg/m <sup>3</sup> (1 hr)	0.5 µg/m <sup>3</sup>	IS:5182(P-10) Iodine Pentoxide method
2	Nickel (Ni)	BDL	20.0 ng/m <sup>3</sup>	15 ng/m <sup>3</sup>	IS 5182(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/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 µg/m <sup>3</sup>	0.5 µg/m <sup>3</sup>	IS 5182(Pt-11):2006
6	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/m <sup>3</sup>	IS 5182(Pt-25):2018
8	Ozone (O <sub>3</sub> )	BDL	100.0 µg/m <sup>3</sup> (1 hr)	5.0 µg/m <sup>3</sup>	CPCB Guideline

Note:

BDL denotes below detection limit

1. 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 test report unless otherwise specified.



End of Report\*

(Authorized Signatory)

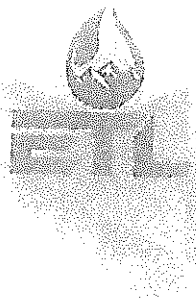
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Testing of Water, Waste Water, Soil, Food, Monitoring of Ambient Air, Indoor Air, Noise, Stack Emission & LUX

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# 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 3391

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

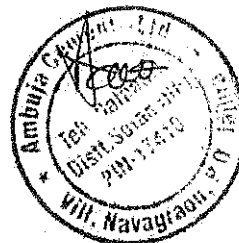
Report No.	ETL/44/2023/G/232795	Report Date	29.03.2023
Customer Ref. No.	2800943057/NE29/07.03.2023	Type of Sample	Ambient Air
Sample Code Given by Customer	NIL	Date of Sampling	14.03.2023 - 15.03.2023
Sampling Location	Station No.3 Near Administrative building	Date of Sample Receipt	15.03.2023
Sample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

S.No	TECHNICAL DATA (PART-A)	
1	Location of Sampling Station	Station No.3 Near Administrative building
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 Clear sky, wind direction West to South
6	Flow Rate of Gaseous Sampling	0.2 LPM
7	Time Period for Sampling	1440 Min
8	Volume of air Sampled(m <sup>3</sup> )	1.44

S.No.	PARAMETERS	RESULTS	STANDARD	DETECTION LIMIT	TEST METHOD
1.	Respirable Suspended Particulate Matter (PM <sub>10</sub> )	70.2	100.0 µg/m <sup>3</sup>	-	IS:5182(Pt-23):2006, Reaffirmed 2017
2.	Sulphur Dioxide (SO <sub>2</sub> )	9.7	80.0 µg/m <sup>3</sup>	-	IS:5182(Pt-2):2001, Reaffirmed 2017
3.	Nitrogen Dioxide (NO <sub>2</sub> )	25.1	80.0 µg/m <sup>3</sup>	-	IS:5182(Pt-6):2006, Reaffirmed 2017
4.	Fine Particulate Matter (PM <sub>2.5</sub> )	39.5	60.0 µg/m <sup>3</sup>	-	IS:5182(Pt-24):2019

**Note:**

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



*[Signature]*  
(Authorized Signatory)

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Page 1 of 2

*[Signature]*

Testing of Water, Waste Water, Soil, Food, Monitoring of Ambient Air, Indoor Noise, Stack Emission & LUX

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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, 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 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(m <sup>3</sup> )	1.41

Sr. No.	PARAMETERS	RESULTS	STANDARD	DETECTION LIMIT	TEST METHOD
1	CO	BDL	4.0 mg/m <sup>3</sup> (1 hr)	0.5 µg/m <sup>3</sup>	IS:5182(P-10) Iodine Pentoxide method
2	Nickel (Ni)	BDL	20.0 ng/m <sup>3</sup>	15 ng/m <sup>3</sup>	IS 5182(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/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 µg/m <sup>3</sup>	0.5 µg/m <sup>3</sup>	IS 5182(Pt-11):2006
6	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/m <sup>3</sup>	IS 5182(Pt-25):2018
8	Ozone (O <sub>3</sub> )	BDL	180.0 µg/m <sup>3</sup> (1 hr)	5.0 µg/m <sup>3</sup>	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.

BDL denotes below detection limit



\*End of Report\*

*[Signature]*  
(Authorized Signatory)

Page 2 Of 2  
Environ Tech Laboratories

6/12

Testing of Water, Waste Water, Soil, Food, Monitoring of Ambient Air, Indoor Air, Noise, Stack Emission & LUX

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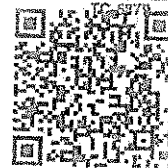
# Enviro Tech Laboratories

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 : 03BREPS9693P1ZV, PAN No. BREPS9693P



DISPATCH No:-ETL/DSP/23 3392

## TEST REPORT

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

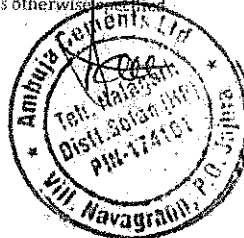
Report No.	ETL/44/2023/G/232796	Report Date	29.03.2023
Customer Ref. No.	2800943057/NE29/07.03.2023	Type of Sample	Ambient Air
Sample Code Given by Customer	NIL	Date of Sampling	14.03.2023 -15.03.2023
Sampling Location	Station no.4(Roof Top of Guest House)	Date of Sample Receipt	15.03.2023
Sample Collected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

S.No	TECHNICAL DATA (PART-A)
1	Location of Sampling Station Station no.4(Roof Top of Guest House)
2	Instrument Used for Sampling RDS, PM <sub>2.5</sub> , Sampler & Gasous 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 Clear sky, wind direction West to South
6	Flow Rate of Gaseous Sampling 0.2 LPM
7	Time Period for Sampling 1440 Min
8	Volume of air Sampled(m <sup>3</sup> ) 1.45

S.No.	PARAMETERS	RESULTS	STANDARD	DETECTION LIMIT	TEST METHOD
1.	Respirable Suspended Particulate Matter (PM <sub>10</sub> )	79.1	100.0 µg/m <sup>3</sup>	-	IS:5182(Pt-23):2006, Reaffirmed 2017
2.	Sulphur Dioxide (SO <sub>2</sub> )	11.1	80.0 µg/m <sup>3</sup>	-	IS:5182(Pt-2): 2001, Reaffirmed 2017
3.	Nitrogen Dioxide (NO <sub>2</sub> )	25.7	80.0 µg/m <sup>3</sup>	-	IS:5182(Pt-6):2006, Reaffirmed 2017
4.	Fine Particulate Matter (PM <sub>2.5</sub> )	38.9	60.0 µg/m <sup>3</sup>	-	IS: 5182(Pt-24):2019

### Note:

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



(Authorized Signatory)

AMIT SINGH SAINI  
Teh. Nalagarh  
District Solan  
Himachal Pradesh  
Page 1 Of 2  
Enviro Tech Laboratories

7/12

Testing of Water, Waste Water, Soil, Food, Monitoring of Ambient Air, Indoor Noise, Stack Emission & LUX

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GSTIN : 03BPEPS9693P1ZV, PAN No. BPEPS9693P

## TEST REPORT

DISPATCH No:-ETL/DSP/233392

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/232796	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.4(Roof Top of Guest House)	Date of Sample Receipt	15.03.2023
Sample Collected By	K.K.Mishra, Field Officer	Sample I.D.	ETL/32/2023/2796
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.4(Roof Top of Guest House)
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 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(m <sup>3</sup> )	1.45

Sr. No.	PARAMETERS	RESULTS	STANDARD	DETECTION LIMIT	TEST METHOD
1	CO	BDL	4.0 mg/m <sup>3</sup> (1 hr)	0.5 µg/m <sup>3</sup>	IS:5182(P-10) Iodine Pentaoxide method
2	Nickel (Ni)	BDL	20.0 ng/m <sup>3</sup>	15 ng/m <sup>3</sup>	IS 5182(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/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 µg/m <sup>3</sup>	0.5 µg/m <sup>3</sup>	IS 5182(Pt-11):2006
6	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/m <sup>3</sup>	IS 5182(Pt-25):2018
8	Ozone (O <sub>3</sub> )	BDL	180.0 µg/m <sup>3</sup> (1 hr)	5.0 µg/m <sup>3</sup>	CPCB Guideline

### Note:

ND denotes NOT Detected

- 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 destroyed after thirty days from the date of issue of test report unless otherwise specified.



\*End of Report\*

(Authorized Signatory)

AJUBA CEMENTS LTD.  
Teh. Nalagarh  
Environ Tech Laboratories

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8/12

Testing of Water, Waste Water, Soil, Food, Monitoring of Ambient Air, Indoor Air, Noise, Stack Emission & LUX

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# Environ Tech Laboratories

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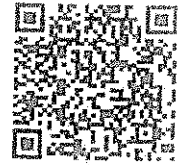
Plot No. C-101, Industrial Area, Phase VII, Sector 73, Mohali, Punjab - 160059

Mob. 94640-00081, 94172-20081, 94172-10081, (O) 94630-00081, 0172-4630081

GSTIN : 03BPEPS9693P1ZV, PAN No. BPEPS9693P



TC-5879



## 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-174101

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 Phaloo)	Date of Sample Receipt	15.03.2023
Sample Collected By	K.K.Mishra , Field Officer	Sample I.D.	ETL/32/2023/2797
Sampling Procedure	ETL/STP/27	Date of testing	15.03.2023 -29.03.2023

S.No	TECHNICAL DATA (PART-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 Clear sky, wind direction West to South
6	Flow Rate of Gaseous Sampling	0.2 LPM
7	Time Period for Sampling	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 <sub>10</sub> )	82.3	100.0 µg/m³	-	IS:5182(Pt-23):2006, Reaffirmed 2017
2.	Sulphur Dioxide (SO <sub>2</sub> )	11.9	80.0 µg/m³	-	IS:5182(Pt-2): 2001, Reaffirmed 2017
3.	Nitrogen Dioxide (NO <sub>2</sub> )	26.3	80.0 µg/m³	-	IS:5182(Pt-6):2006, Reaffirmed 2017
4.	Fine Particulate Matter ( PM <sub>2.5</sub> )	40.8	60.0 µg/m³	-	IS: 5182 (Pt-24):2019

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(Authorized Signatory)

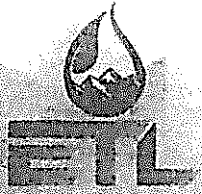
AKSHAY SINGH  
Technical Manager  
Environ Tech Laboratories  
Page 1 of 2

9/12

Testing of Water, Waste Water, Soil, Food, Monitoring of Ambient Air, Indoor Noise, Stack Emission & LUX

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# Environ Tech Laboratories

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/ 23 3393

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

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 Phaloo)	Date of Sample Receipt	15.03.2023
Sample Collected By	K.K.Mishra, Field Officer	Sample I.D.	ETL/32/2023/2797
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)
2	Instrument Used for Sampling	RDS + Gaseous sampler + PM2.5 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 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(m <sup>3</sup> )	1.43

Sr. No.	PARAMETERS	RESULTS	STANDARD	DETECTION LIMIT	TEST METHOD
1	CO	BDL	4.0 mg/m <sup>3</sup> (1 hr)	0.5 µg/m <sup>3</sup>	IS:5182(P-10) Iodine Pentaoxide method
2	Nickel (Ni)	BDL	20.0 ng/m <sup>3</sup>	15 ng/m <sup>3</sup>	IS 5182(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/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 µg/m <sup>3</sup>	0.5 µg/m <sup>3</sup>	IS:5182(Pt-11):2006
6	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/m <sup>3</sup>	IS 5182(Pt-25):2018
8	Ozone (O <sub>3</sub> )	BDL	180.0 µg/m <sup>3</sup> (1 hr)	5.0 µg/m <sup>3</sup>	CPCB Guideline

ND denotes NOT Detected

### Note:

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\*End of Report\*



(Authorized Signatory)

Signature  
Name  
Designation  
Date

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Testing of Water, Waste Water, Soil, Food, Monitoring of Ambient Air, Indoor Air, Noise, Stack Emission & LUX

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# 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



TC-5979

## TEST REPORT

DISPATCH No:-ETL/DSP/ 23 3394



To

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

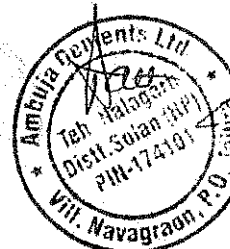
Report No.	ETL/44/2023/G/232798	Report Date	29.03.2023
Customer Ref. No.	2800943057/NE29/07.03.2023	Type of Sample	Ambient Air
Sample Code Given by Customer	NIL	Date of Sampling	14.03.2023 - 15.03.2023
Sampling Location	Station No.6 (Near STP Towards Ratyor)	Date of Sample Receipt	15.03.2023
Sample Collected 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-A)	
1	Location of Sampling Station	Station No.6 (Near STP Towards Ratyor)
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 Clear sky, wind direction West to South
6	Flow Rate of Gaseous Sampling	0.2 LPM
7	Time Period for Sampling	1440 Min
8	Volume of air Sampled(m <sup>3</sup> )	1.41

S.No.	PARAMETERS	RESULTS	STANDARD	DETECTION LIMIT	TEST METHOD
1.	Respirable Suspended Particulate Matter (PM <sub>10</sub> )	04.5	100.0 µg/m <sup>3</sup>	-	IS:5102(Pt-23):2006, Reaffirmed 2017
2.	Sulphur Dioxide (SO <sub>2</sub> )	10.2	80.0 µg/m <sup>3</sup>	-	IS:5102(Pt-2): 2001, Reaffirmed 2017
3.	Nitrogen Dioxide (NO <sub>2</sub> )	29.4	80.0 µg/m <sup>3</sup>	-	IS:5102(Pt-6):2006, Reaffirmed 2017
4.	Fine Particulate Matter (PM <sub>2.5</sub> )	41.5	60.0 µg/m <sup>3</sup>	-	IS: 5102(Pt-24):2019

Note:

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(Authorized Signatory)

AJAY KUMAR SAINI  
Technical Manager  
Environ Tech Laboratories

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11/12

Testing of Water, Waste Water, Soil, Food, Monitoring of Ambient Air, Indoor Noise, Stack Emission & LUX

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GSTIN : 03BPEPS9693P1ZV, PAN No. BPEPS9693P

## TEST REPORT

DISPATCH No:-ETL/DSP/233394

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/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

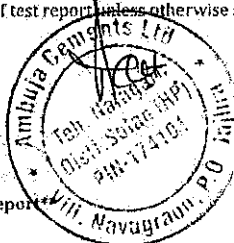
S.No	TECHNICAL DATA (PART-B)	
1	Location of Sampling Station	Station No.6 (Near STP Towards Ratyor)
2	Instrument Used for Sampling	RDS, PM <sub>2.5</sub> Sampler & Gaseous Sampler
3	Source of Sampling	Ambient Air
4	Temperature of Sampling Location	30°C
5	Environmental Condition	Max temp. 32°C Min temp. 15°C 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(m <sup>3</sup> )	1.41

Sr. No.	PARAMETERS	RESULTS	STANDARD	DETECTION LIMIT	TEST METHOD
1	CO	BDL	4.0 ng/m <sup>3</sup> (1 hr)	0.5 µg/m <sup>3</sup>	IS:5182(P-10) Iodine Pentaoxide method
2	Nickel (Ni)	BDL	20.0 ng/m <sup>3</sup>	15 ng/m <sup>3</sup>	IS 5182(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/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 µg/m <sup>3</sup>	0.5 µg/m <sup>3</sup>	IS 5182(Pt-11):2006
6	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/m <sup>3</sup>	IS 5182(Pt-25):2018
8	Ozone (O <sub>3</sub> )	BDL	180.0 µg/m <sup>3</sup> (1 hr)	5.0 µg/m <sup>3</sup>	CPCB Guideline

Note:

BDL denotes below detection limit

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(Authorized Signatory)

AMBUJA CEMENTS LTD.  
Teh. Nalagarh,  
Distt. Solan (HP)  
Environ Tech Laboratories

\*\*End of Report\*\*

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Testing of Water, Waste Water, Soil, Food, Monitoring of Ambient Air, Indoor Air, Noise, Stack Emission & LUX

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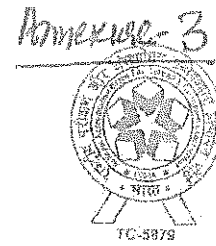
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Mob. 94640-00081, 94172-20081, 94172-10081, (O) 94630-00081, 0172-4630081

GSTIN : 03BPEPS9693P1ZV, PAN No. BPEPS9693P



## TEST REPORT

DISPATCH No:-ETL/DSP/23 3401

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/232810	Report Date	29.03.2023
Your Ref. No	2800943057/NE29/07.03.2023	Type of sample	Process Stack
Sample Code given by Customer	NH	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 ID.	ETL/32/2023/G/2810
Sampling procedure	ETL/STP/26	Date of test	15.03.2023 - 29.03.2023

### TECHNICAL DATA

#### PART-A

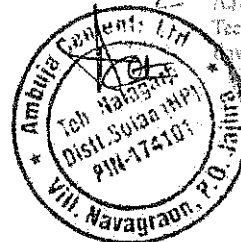
1	Instrument Used for Sampling	VSSI
2	Source of Emission	Process Stack of Vertical Roller Mill (Outside)
3	Fuel used in source	Electricity
4	Type of stack	Round of Metal
5	Velocity of fuel gases	8.7 m/s
6	Sampling Duration	34 min.
7	Ambient air temperature	29°C
8	Stack temperature	78°C
9	Stack height from ground level	54 meter (GL)
10	Diameter of stack	1.0 meter
11	No. of traverse point selected	01

S. NO.	PARAMETER	RESULT (mg/Nm <sup>3</sup> )	Limits (mg/Nm <sup>3</sup> ) CPCB-2010	TEST METHOD
1.	Particulate Matter, mg/Nm <sup>3</sup>	11.9	30	IS:11255(Pt-1):2003 reaffirmed 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 (NO <sub>x</sub> as NO <sub>2</sub> ), mg/Nm <sup>3</sup>	39.2	...	IS:11255(Pt-7):2005 reaffirmed 2017

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(Authorized Signatory)



Technical Manager  
Environ Tech Laboratories

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1/8

Testing of Water, Waste Water, Soil, Food, Monitoring of Ambient Air, Indoor Noise, Stack Emission & LUX

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GSTIN : 03BPEPS9693P1ZV, PAN No. BPEPS9693P

## TEST REPORT

DISPATCH No:-ETL/DSP/23 3401

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/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 (L.D.)	ETL/32/2023/G/2810
Sampling procedure	ETL/STP/26	Date of test	15.03.2023 - 29.03.2023

### TECHNICAL DATA

#### PART-B

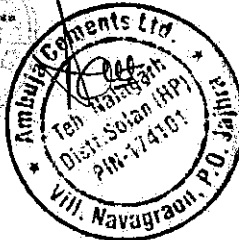
1	Instrument Used for Sampling	VSSI
2	Source of Emission	Process Stack of Vertical Roller Mill(Outside)
3	Fuel used in source	Electricity
4	Type of stack	Round of Metal
5	Velocity of fuel gases	8.7 m/s
6	Sampling Duration	34 min.
7	Ambient air temperature	29°C
8	Stack temperature	78°C
9	Stack height from ground level	54 meter (GL)
10	Diameter of stack	1.0 meter
11	No. of traverse point selected	01

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

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\*\* END OF REPORT \*\*



(Authorized Signatory)

AJAY SINGH  
Technical Manager  
Environ Tech Laboratories

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Testing of Water, Waste Water, Soil, Food, Monitoring of Ambient Air, Indoor Air, Noise, Stack Emission & LUX

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Mob. 94640-00081, 94172-20081, 94172-10031, (O) 94630-00081, 0172-4630081

GSTIN : 03BPEPS0683P1ZV, PAN No. BPEPS9693P



TC-5879

## TEST REPORT



DISPATCH No:-ETL/DSP/ 23 3402

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/232809	Report Date	29.03.2023
Your Ref. No	2800943037/NEZ9/07.03.2023	Type of sample	Process Stack
Sample Code given by Customer	Nil	Date of sampling	14.03.2023
Sampling Location	Stack of Vertical Roller Mill ( Inside)	Date of Sample Receipt	15.03.2023
Sample Collected 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

### TECHNICAL DATA PART-A

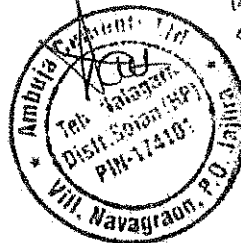
1	Instrument Used for Sampling	VSSI
2	Source of Emission	Process Stack of Vertical Roller Mill(Inside)
3	Fuel used in source	Furnace oil
4	Type of stack	Round of Metal
5	Velocity of fuel gases	8.9 m/s
6	Sampling Duration	35 min.
7	Ambient air temperature.	29°C
8	Stack temperature	84°C
9	Stack height from ground level	54 meter (GL)
10	Diameter of stack	1.0 meter
11	No. of traverse point selected	01

S. NO	PARAMETER	RESULT (mg/Nm <sup>3</sup> )	Limits (mg/Nm <sup>3</sup> ) CPCB-2010	TEST METHOD
1.	Particulate Matter, mg/Nm <sup>3</sup>	0.7	30	IS:11255(Pt-1):2003 reaffirmed 2014
2.	Sulphur Dioxide (as SO <sub>2</sub> ), mg/Nm <sup>3</sup>	0.3	...	IS:11255(Pt-2):2003 reaffirmed 2014
3.	Oxide of Nitrogen(NO <sub>x</sub> as NO <sub>2</sub> ), mg/Nm <sup>3</sup>	40.5	...	IS:11255(Pt-7):2005 reaffirmed 2017

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(Authorized Signatory)



AJEET SINGH SAHNI  
Technical Manager  
Environ Tech Laboratories  
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3/8

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GSTIN : 03BPEPS9693P1ZV, PAN No. BPEPS9693P

## TEST REPORT

DISPATCH No:-ETL/DSP/ 23 3402

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/232809	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 (Inside)	Date of Sample Receipt	15.03.2023
Sample Collected 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

### TECHNICAL DATA

#### PART-B

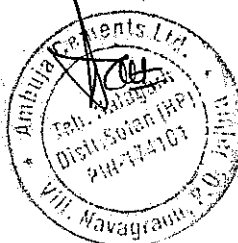
1	Instrument Used for Sampling	VSSI
2	Source of Emission	Process Stack of Vertical Roller Mill (Inside)
3	Fuel used in source	Furnace oil
4	Type of stack	Round of Metal
5	Velocity of fuel gases	8.9 m/s
6	Sampling Duration	35 min.
7	Ambient air temperature	29°C
8	Stack temperature	84°C
9	Stack height from ground level	54 meter (GL)
10	Diameter of stack	1.0 meter
11	No. of traverse point selected	01

S. NO.	PARAMETER	RESULT (mg/Nm <sup>3</sup> )	Limits (mg/Nm <sup>3</sup> ) CPCB-2010	TEST METHOD
1.	Carbon Monoxide, (as CO)	53	----	IS 13270:1992 Reaffirmed 2003

#### Note:

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\*\* END OF REPORT \*\*



(Authorized Signatory)

AKASH SINGH  
Technical Manager  
Environ Tech Laboratories

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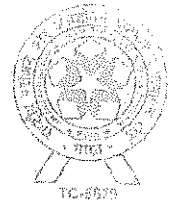
4/8



# Environ Tech Laboratories

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Plot No. C-101, Industrial Area, Phase VII, Sector 73, Mohali, Punjab - 160050  
Mob. 94640-00081, 94172-20081, 94172-10081, (O) 94630-00081, 0172-4630081  
GSTIN : 03BBEPS9693P1ZV, PAN No. BPEPS9693P



## TEST REPORT

DISPATCH No:- ETL/DSP/ 23 3399



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/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
Sample Collected By	K.K.Mishra, Field Officer	Sample I.D.	ETL/32/2023/G/2012
Sampling procedure	ETL/STP/26	Date of test	15.03.2023 - 29.03.2023

### TECHNICAL DATA

1	Instrument Used for Sampling	VSSI
2	Source of Emission	Process Stack of Packing plant (Packer no.1)
3	Fuel used in source	Electricity
4	Type of stack	Round of Metal
5	Velocity of fuel gases	9.8 m/s
6	Sampling Duration	34 min.
7	Ambient air temperature	29°C
8	Stack temperature	72°C
9	Stack height from ground level	31.6 meter (GL)
10	Diameter of stack	1.0 meter
11	No. of traverse point selected	01

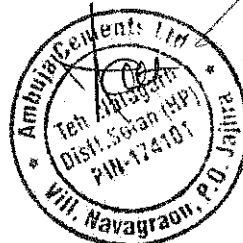
S. NO.	PARAMETER	RESULT (mg/Nm <sup>3</sup> )	Limits (mg/Nm <sup>3</sup> ) CPCB-2010	TEST METHOD
1.	Particulate Matter, mg/Nm <sup>3</sup>	11.6	30	IS:11255(Pt-1):2003 reaffirmed 2014

#### 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 permission.
- 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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5/8

Testing of Water, Waste Water, Soil, Food, Monitoring of Ambient Air, Indoor Noise, Stack Emission & LUX  
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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 3403



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

Report No.	ETL/44/2023/G/232811	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.2)	Date of Sample Receipt	15.03.2023
Sample Collected By	K.K.Mishra, Field Officer	Sample I.D.	ETL/32/2023/G/2811
Sampling procedure	ETL/STP/26	Date of test	15.03.2023 - 29.03.2023

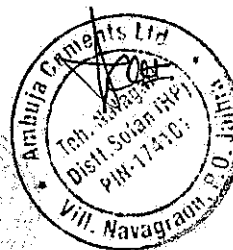
### TECHNICAL DATA

1	Instrument Used for Sampling	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
8	Stack temperature	86°C
9	Stack height from ground level	31.6 meter (GL)
10	Diameter of stack	1.0 meter
11	No. of traverse point selected	01

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

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



(Authorized Signatory)  
AJEET SINGH SAINI  
Technical Manager  
Environ Tech Laboratories

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9/8

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Mob. 94640-00081, 94172-20081, 94172-10081, (O) 94630-00081, 0172-4630081

GSTIN : 03BPEPS9693P1ZV, PAN No. BPEPS9693P



TC-5979

## TEST REPORT



DISPATCH No:-ETL/DSP/23 3404

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/232813	Report Date	29.03.2023
Your Ref. No	2900943057/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 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 DATA

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°C
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

S. NO	PARAMETER	RESULT (mg/Nm <sup>3</sup> )	Limits (mg/Nm <sup>3</sup> ) CPCB-2010	TEST METHOD
1.	Particulate Matter, mg/Nm <sup>3</sup>	14.3	30	IS:11255(Pt-1):2003 reaffirmed 2014

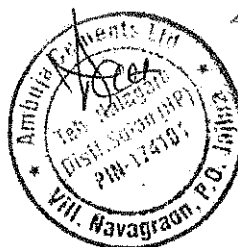
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\*\* END OF REPORT \*\*

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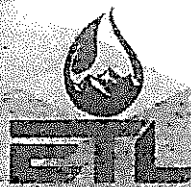
AJAY SINGH SAINI  
Technical Manager  
Environ Tech Laboratories  
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7/8

Testing of Water, Waste Water, Soil, Food, Monitoring of Ambient Air, Indoor Noise, Stack Emission & LUX  
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# 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 : 03BREPS9693P1ZV, PAN No. BPEPS9693P



## TEST REPORT

DISPATCH No:- ETL/DSP/23 3400



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/232814	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 Clinker Tippler ( Bag Filter no.2)	Date of Sample Receipt	15.03.2023
Sample Collected By	K.K.Mishra, Field Officer	Sample I.D.	ETL/32/2023/G/2814
Sampling procedure	ETL/STP/26	Date of test	15.03.2023 - 29.03.2023

### TECHNICAL DATA

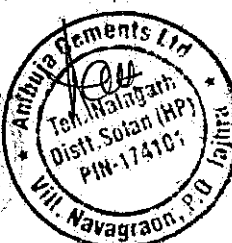
1	Instrument Used for Sampling	VSSI
2	Source of Emission	Process Stack of Clinker Tippler ( Bag Filter no.2)
3	Fuel used in source	Electricity
4	Type of stack	Round of Metal
5	Velocity of fuel gases	9.1 m/s
6	Sampling Duration	31 min
7	Ambient air temperature	29°C
8	Stack temperature	58°C
9	Stack height from ground level	32 meter (CL)
10	Diameter of stack	1.0 meter
11	No. of traverse point selected	01

S. NO.	PARAMETER	RESULT (mg/Nm <sup>3</sup> )	Limits (mg/Nm <sup>3</sup> ) CPCB-2010	TEST METHOD
1.	Particulate Matter, mg/Nm <sup>3</sup>	13.6	30	IS:11255(Pt-1):2003 reaffirmed 2014

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\*\*END OF REPORT



(Authorized Signatory)

AJAY SINGH SAINI  
Technical Manager  
Environ Tech Laboratories  
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8/8

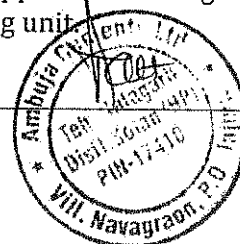
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**Compliance of Conditions of CREP recommendations  
Ambuja Cements Limited (Cement Grinding Unit), Navagraon - Nalagarh (H.P.)**

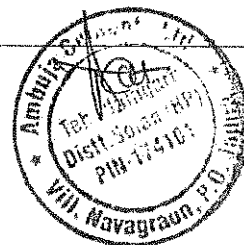
Sl. No.	Recommendation	Compliance Status
1	Cement Plants, which are not complying with notified standards, shall do the following to meet the standards;  Augmentation of existing Air Pollution Control Devices - by July 2003. Replacement of existing Air Pollution Control Devices - by July 2004	Unit is already meeting the emission standard.
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 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 SO <sub>2</sub> and NO <sub>x</sub> emission standards by June 2004.	Not Applicable being 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 Silos or covered areas. The maximum area inside plant has been concreted or developed as green belt 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 being standalone grinding unit.

1/2





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	Continuous emission monitoring 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 for online data transmission.
9	Tripping in kiln ESP to be minimized by July 2003 as per the recommendations of NTF.	Not Applicable being 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. 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.	Not Applicable being 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. * Noncomplying units shall give bank guarantee to respective SPCBs.	Not Applicable being standalone grinding unit.





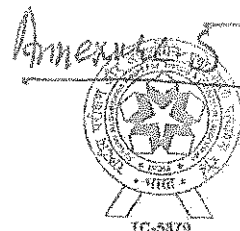
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Plot No. C-101, Industrial Area, Phase VII, Sector 73, Mohali, Punjab - 160059

Mob. 94640-00081, 94172-20081, 94172-10081, (O) 94630-00081, 0172-4630081

GSTIN : 03BPEPS9693P1ZV, PAN No. BPEPS9693P



## TEST REPORT

Dispatch No: ETL/DSP/23 3382

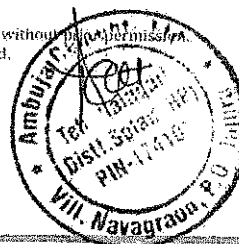
To  
M/s AMBUJA CEMENT LIMITED (UNIT - NALAGARH)  
VILLAGE NAVAGRAON, P.O JAJHRA  
TEH. NALAGARH, DISTRICT SOLAN  
HIMACHAL PRADESH-174101

Report No.	ETL/44/2023/G/232836	Report Date	29.03.2023
Customer Ref. No.	2800943057/NE29/07.03.2023	Type of Sample	Ground Water
Sample Code Given by Customer	NIL	Quantity	2 litre plastic bottle
Sampling Location	Borewell NO. 1	Date of Sampling	14.03.2023
Sample Collected By	Mr. K.K Mishra (Field Officer)	Date of Sample Receipt	15.03.2023
Sampling Procedure	ETL/STP/W/33	Sample I.D.	ETL/32/2023/2836
Sample description	Clear and colourless	Date of testing	15.03.2023-29.03.2023

S. No.	Parameters	Results	PART-A Limits of IS: 10500 - 2012		Test method
			Requirement (Acceptable Limit)	Permissible Limit in the Absence of Alternate Source	
1.	Colour, Hazen unit, Max	<5	5	15	IS: 3025 (Part - 4)
2.	Turbidity, NTU, Max	<1	1	5	IS: 3025 (Part - 10)
3.	pH	7.12	6.5 - 8.5	No relaxation	IS: 3025 (Part - 11)
4.	Total Dissolved Solids, mg/l, Max	488	500	2000	IS: 3025 (Part - 16)
5.	Total Alkalinity (as CaCO <sub>3</sub> ), mg/l, Max	340	200	600	IS: 3025 (Part - 23)
6.	Chloride (as Cl), mg/l, Max	22	250	1000	IS: 3025 (Part - 32)
7.	Sulphate (as SO <sub>4</sub> ), mg/l, Max	49.9	200	400	IS: 3025 (Part - 24)
8.	Nitrate (as NO <sub>3</sub> ), mg/l, Max	19.3	45	No relaxation	IS: 3025 (Part - 36)
9.	Fluoride (as F), mg/l, Max	0.12	1.0	1.5	IS: 3025 (Part - 60)
10.	Calcium (as Ca), mg/l, Max	50	75	200	IS: 3025 (Part 40)
11.	Magnesium (as Mg), mg/l, Max	28	30	100	IS: 3025 (Part - 46)
12.	Total Hardness (as CaCO <sub>3</sub> ), mg/l, Max	242	200	600	IS: 3025 (Part - 21)
13.	Sodium (as Na), mg/l, Max	79.5	-	-	IS: 3025 (Part - 45)
14.	Potassium (as K), mg/l, Max	2.6	-	-	IS: 3025 (Part - 45)
15.	Iron ( as Fe), mg/l, Max	0.28	1.0	No relaxation	IS: 3025 (Part - 53)

Note:

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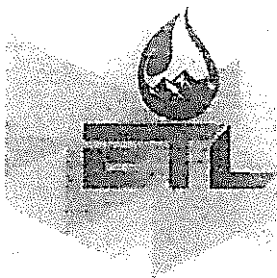


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GSTIN : 03BPEPS9693P1ZV, PAN No. BPEPS9693P

## TEST REPORT

Dispatch No: ETL/DSP/23 3382

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/232836	Report Date	29.03.2023
Customer Ref. No.	2800943057/NE29/07.03.2023	Type of Sample	Ground Water
Sample Code Given by Customer	NIL	Quantity	250 ml micro bottle
Sampling Location	Borewell NO. 1	Date of Sampling	14.03.2023
Sample Collected By	Mr. K.K Mishra (Field Officer)	Date of Sample Receipt	15.03.2023
Sampling Procedure	ETL/STP/W/33	Sample I.D.	ETL/32/2023/2836
Sample description	Clear and colourless	Date of testing	15.03.2023-29.03.2023

### PART-B

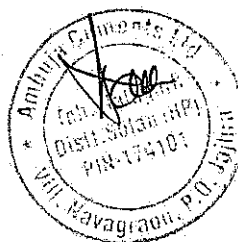
#### Bacteriological Quality:-

S. No.	PARAMETERS	TEST RESULTS	Requirement as per IS 10500:2012	TEST METHOD
1.	E.coli/100ml	ABSENT	Shall not be detectable in any 100ml sample	IS 15185:2016
2.	Total Coliform /100ml	ABSENT	Shall not be detectable in any 100ml sample	IS 15185:2016

#### Note:

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

**\*\*END OF REPORT\*\***



*[Signature]*  
(Authorized Signatory)

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2/4

Testing of Water, Waste Water, Soil, Food, Monitoring of Ambient Air, Indoor Air, Noise, Stack Emission & LUX

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Mob. 94640-00081, 94172-20081, 94172-10081, (O) 94630-00081, 0172-4630081

GSTIN : 03BPEPS9693P1ZV, PAN No. BPEPS9693P



## TEST REPORT

Dispatch No: ETL/DSP/23 3383

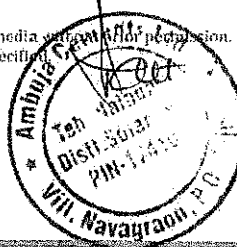
To  
M/s AMBUJA CEMENT LIMITED(UNIT- NALAGARH)  
VILLAGE NAVAGRAON, P.O JAJHRA  
TEH. NALAGARH, DISTRICT SOLAN  
HIMACHAL PRADESH-174101

Report No.	ETL/44/2023/232837	Report Date	29.03.2023
Customer Ref. No.	2800943057/NE29/07.03.2023	Type of Sample	Ground Water
Sample Code Given by Customer	NIL	Quantity	2 litre plastic bottle
		Date of Sampling	14.03.2023
Sampling Location	Borewell NO.2	Date of Sample Receipt	15.03.2023
Sample Collected By	Mr. K.K Mishra (Field Officer)	Sample I.D.	ETL/32/2023/2837
Sampling Procedure	ETL/STP/W/33	Date of testing	15.03.2023-29.03.2023
Sample description	Clear and colourless		

S. No.	Parameters	Results	PART-A Limits of IS: 10500 - 2012		Test method
			Requirement (Acceptable Limit)	Permissible Limit in the Absence of Alternate Source	
1.	Colour, Hazen unit, Max	<5	5	15	IS: 3025 (Part - 4)
2.	Turbidity, NTU, Max	<1	1	5	IS: 3025 (Part - 10)
3.	pH	7.00	6.5 - 8.5	No relaxation	IS: 3025 (Part - 11)
4.	Total Dissolved Solids, mg/l, Max	492	500	2000	IS: 3025 (Part - 16)
5.	Total Alkalinity (as CaCO <sub>3</sub> ), mg/l, Max	340	200	600	IS: 3025 (Part - 23)
6.	Chloride (as Cl), mg/l, Max	17.8	250	1000	IS: 3025 (Part - 32)
7.	Sulphate (as SO <sub>4</sub> ), mg/l, Max	41.23	200	400	IS: 3025 (Part - 24)
8.	Nitrate (as NO <sub>3</sub> ), mg/l, Max	19.15	45	No relaxation	IS: 3025 (Part - 34)
9.	Fluoride (as F), mg/l, Max	0.34	1.0	1.5	IS: 3025 (Part - 60)
10.	Calcium (as Ca), mg/l, Max	64.12	75	200	IS: 3025 (Part - 30)
11.	Magnesium (as Mg), mg/l, Max	17.03	30	100	IS: 3025 (Part - 46)
12.	Total Hardness (as CaCO <sub>3</sub> ), mg/l, Max	230	200	600	IS: 3025 (Part - 21)
13.	Sodium (as Na), mg/l, Max	29	-	-	IS: 3025 (Part - 45)
14.	Potassium (as K), mg/l, Max	2.85	-	-	IS: 3025 (Part - 45)
15.	Iron (as Fe), mg/l, Max	0.25	1.0	No relaxation	IS: 3025 (Part - 53)

Note:

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*[Signature]*  
(Authorized Signatory)

PAGE 1 OF 2

3/4

Testing of Water, Waste Water, Soil, Food, Monitoring of Ambient Air, Indoor Noise, Stack Emission & LUX  
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# Environ Tech Laboratories

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/ 233383

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

Report No.	ETL/44/2023/232837	Report Date	29.03.2023
Customer Ref. No.	2800943057/NE29/07.03.2023	Type of Sample	Ground Water
Sample Code Given by Customer	NIL	Quantity	250 ml micro bottle
Sampling Location	Borewell NO.2	Date of Sampling	14.03.2023
Sample Collected By	Mr. KK Mishra (Field Officer)	Date of Sample Receipt	15.03.2023
Sampling Procedure	ETL/STP/W/33	Sample I.D.	ETL/32/2023/2037
Sample description	Clear and colourless	Date of testing	15.03.2023-29.03.2023

### PART-B

#### Bacteriological Quality:-

S. No.	PARAMETERS	TEST RESULTS	Requirement as per IS 10500:2012	TEST METHOD
1.	E.coli/100ml	ABSENT	Shall not be detectable in any 100ml sample	IS 15185:2016
2.	Total Coliform /100ml	ABSENT	Shall not be detectable in any 100ml sample	IS 15185:2016

#### Note:

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\*\*END OF REPORT\*\*

(Authorized Signatory)



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GSTIN: 03BPEPS9693P1ZV, PAN No. BPEPS9693P



TC-5879



## TEST REPORT

Dispatch No: ETL/DSP/23 3397

To

M/s AMBUJA CEMENT LIMITED(UNIT- NALAGARH)

VILLAGE NAVAGRAON, P.O (AJHRA

TEH. NALAGARH, DISTRICT SOLAN

HIMACHAL PRADESH-174101

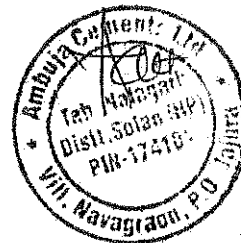
Report No.	ETL/44/2023/G/232830	Report Date	29.03.2023
Your Ref. No.	2800943057/NE29/07.03.2023	Type of sample	Treated Water (STP-1 Outlet)
Sample Code Given by Customer	Nil	Quantity	1 Litre Plastic Bottle + 2Litre Glass Bottle
		Date of sampling	14.03.2023
Sampling Location	Inside	Date of sample receipt	15.03.2023
Sample Collected by	Mr. K.K Mishra (Field Officer)	Sample I.D.	ETL/32/2023/G/2830
Sampling procedure	ETL/STP/W/33	Date of test	15.03.2023-29.03.2023
Sample description	Slightly turbid		

S. No.	PARAMETERS	TEST RESULTS	STANDARDS (As per CPCB 2021)	TEST METHODS
1.	pH	7.86	6.5 - 9.0	IS:3025 (Part-11)2002,Reaff.2017
2.	Total Suspended Solids, mg/L.	92	<100	IS:3025(Part-17)2012,Reaff.2017
3.	Total Dissolved Solid, mg/L.	450	Not Specified	IS:3025(Part-16)2006,Reaff.2017
4.	Bio-chemical Oxygen Demand at 27°C, 3 days, mg/L	7.8	30	IS: 3025(Part-84)2009, Reaff.2014.
5.	Chemical Oxygen Demand, mg/L	20	Not Specified	IS:3025(Part-58)2006,Reaff.2017
6.	Oil and Greases, mg/L.	1.8	Not Specified	IS:3025(Part-39)2003,Reaff.2014

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\*End of Report\*



(Authorized Signatory)

AMBULJA CEMENT  
Technical Manager  
Environ Tech Laboratories

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Mob. 94640-00081, 94172-20081, 94172-10081, (O) 94630-00081, 0172-4630081  
GSTIN : 03BPEPS9693P1ZV, PAN No. BPEPS9693P



## TEST REPORT



Dispatch No: ETL/DSP/23 3398

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

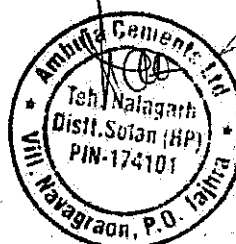
Report No.	ETL/44/2023/G/232831	Report Date	29.03.2023
Your Ref. No.	2800943057/NE29/07.03.2023	Type of sample	Treated Water (STP-2 Outlet)
Sample Code Given by Customer	Nil	Quantity	1 Litre Plastic Bottle + 2 Litre Glass Bottle
Sampling Location	Outside	Date of sampling	14.03.2023
Sample Collected by	Mr. K.K. Mishra (Field Officer)	Date of sample receipt	15.03.2023
Sampling procedure	ETL/STP/W/33	Sample I.D.	ETL/32/2023/G/2831
Sample description	Slightly turbid	Date of test	15.03.2023-29.03.2023

S. No.	PARAMETERS	TEST RESULTS	STANDARDS (As per CPCB 2021)	TEST METHODS
1.	pH	7.64	6.5 - 9.0	IS:3025 (Part-11)2002, Reaff.2017
2.	Total Suspended Solids, mg/L	8.8	<100	IS:3025(Part-17)2012, Reaff.2017
3.	Total Dissolved Solid, mg/L	510	Not Specified	IS:3025(Part-16)2006, Reaff.2017
4.	Bio-chemical Oxygen Demand at 27°C, 3 days, mg/L	17.8	30	IS: 3025(Part-44)2009, Reaff.2014
5.	Chemical Oxygen Demand, mg/L	40	Not Specified	IS:3025(Part-58)2006, Reaff.2017
6.	Oil and Greases, mg/L	2.2	Not Specified	IS:3025(Part-39)2003, Reaff.2014

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\*End of Report\*



(Authorized Signatory)

AJEEY SINGH  
Technical Manager  
Environ Tech Laboratories

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2/2

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Plot No. C-101, Industrial Area, Phase VII, Sector 73, Mohali, Punjab - 160055

Mob. 94640-00081, 94172-20081, 94172-10081, (O) 94630-00081, 0172-4630081

GSTIN : 03BPEPS9693P1ZV, PAN No. BPEPS9693P

Ameyuso-7



TC-5879



## TEST REPORT

Dispatch No: ETL/DSP/23 3405

To  
M/s AMBUJA CEMENT LIMITED  
VILLAGE NAVAGARH, TEHSIL NALAGARH  
DISTRICT SOLAN, HIMACHAL PRADESH

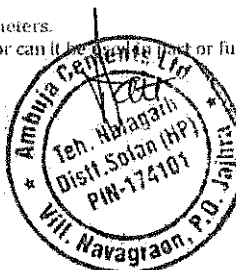
Report No.	ETL/44/2023/G/232799-2808	Report Date	29.03.2023
Your Ref. No.	2800943057/NE29/07.03.2023	Type of sample	Ambient Noise Monitoring
Sampling Location	As per mentioned below	Sample I.D.	ETL/32/2023/2799-2808
Sample monitored By	Mr. KK Mishra (Field Officer)	Date of monitoring	14.03.2023
Sampling 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
1	Near material Gate	69.2	61.5	75	IS:9989 Ref.2014
				70	
2	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	
				70	
5	Near MPSS Building	70.9	62.5	75	
				75	
6	In front of DO	69.5	62.3	70	
				75	
7	Near Borewell / Dispensary	68.9	61.9	70	
				75	
8	Near Store Building	68.5	62.1	70	
				70	
9	Near Weigh Bridge	69.4	63.1	75	
				70	
10	Near rain Water Harvesting	70.1	62.5	75	
				75	
				70	

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\*End of Report\*



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Distt Solan (HP)  
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