

Ref: ACL (Nlg)/EMD/2024/11/02

26<sup>th</sup> Nov 2024

**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 April 2024 to Sep 2024 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**.

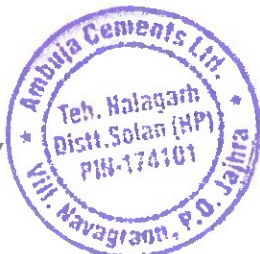
Hope you will find the information in order.

Thanking you.

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

  
**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  
www.ambujacement

## 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 28th April 2020

**Period of Compliance:** April 2024 to September 2024

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 & additional hike of 16.5 Lacs have already been paid to HP Forest Department, Nalagarh on dtd.30.03.2024 and 23.04.2024. Copy of compliance certificate received from Forest Department is attached.
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 Other Waste management Rules, 2016 as amended from time to time.	Authorization under Hazardous and Other Waste management Rules, 2016 as amended from time to time has already been obtained and is valid up to 31.03.2029.
<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	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

	prescribed in Environment (Protection) Rules, 1986 vide G.S.R. 612 (E) dated 25th August, 2014 (Cement) and subsequent amendment dated 9th 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.	vide G.S.R. 612 (E) dated 25th 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.	Quarterly 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 9th Sep 2024. Reports are attached as Annexure D
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.	5 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 10th – 11th March, 2024. All the results were within the prescribed limits. Reports are attached as Annexure 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 monitoring report	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 compliance report is also being submitted to HPSPCB. Existing Stack emission reports are attached as Annexure A.
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 Annexure A.

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 Annexure C
viii.	Sufficient number of mobile or stationary vacuum cleaners shall be provided to clean plant roads, shop floors, roofs regularly.	Three numbers of Mobile vacuum cleaners (One Tenant machine and two 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 surrounding environment including agricultural land by the use of covered conveyor belts/railways as a mode of transportation.	All the raw materials and the final product (cement) are transported in covered trucks. All the conveyor belts 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 25th August, 2014 (Cement)	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%



	and subsequent amendment dated 9th 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.	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 9th Sep 2024. The reports are attached as Annexure F
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. Monthly sampling being done by M/s Environ Tech Laboratory (a NABL accredited laboratory and recognized under Environment (Protection) Act, 1986). Last Month reports are well within the limits and attached as Annexure G.
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 greenbelt 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	All the possible efforts are made to minimize the water consumption in the plant. 100% of treated water is reused

	segregation of used water, practicing cascade use and by recycling treated water.	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 9 <sup>th</sup> Sep 2024. Report is attached as Annexure E
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 also exploring the possibility of using wet 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	Greenbelt has been developed in and around the plant premises with native tree species in accordance with CPCB guidelines. Total Green cover is more

	inter alia cover the entire periphery of the plant.	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 Factories Act.	Occupational Health Surveillance of the workers is being done on regular basis and records maintained in the 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 1st 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 1st 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 conducted by third party in the month of March 2024.
vi.	All the recommendations made in the Charter on Corporate Responsibility for Environment Protection (CREP) for the cement plants shall be implemented	All the recommendations made in the charter of Corporate Responsibility for Environment Protection (CREP) for the cement plants have already been implemented and attached as attached as Annexure C
<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 6th 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	The copies of Environmental Clearance letter have been submitted to the concerned Governmental authorities as well as the local bodies/ Panchayats.



	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/ 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; PM10, SO2, NOx (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; PM10, SO2, NOx (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 28th April 2020. 2.2 MTPA consent to operate obtained from HP Pollution Control Board.
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	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.



	Committee	
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 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.	The point has been noted and will be complied.
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 issue with the approval of Competent Authority.	The point has been noted.



HP Forest Department  
Nalagarh Forest Division  
Ph:01795-223124  
head-forestdivna-hp@hp.gov.in



No. RK/FCA/ 1515

Dated Nalagarh, the 13/05/2024

From:

Deputy Conservator of Forests,  
Nalagarh Forest Division,  
Nalagarh, Distt. Solan, HP.

To:

✓ M/s Ambuja Cements Limited (Unit: Nalagarh)  
Village Navagraon, Tehsil Nalagarh,  
Distt. Solan, HP.

Subject: -

Regarding submission of fee against wildlife conservation plan.

Sir,

Kindly refer to your office letter No. ACL (Nlg)/EMD/2024/04/01 dated 01/04/2024 & ACL (Nlg)/EMD/2024/04/02 dated 26/04/2024 on the above cited subject.

2.

In this regard it is submitted that the following amount has been received for the implementation of Wildlife Conservation Plan approved by Pr. CCF (WL) Chief Wildlife Warden Shimla, HP:-

- i). Amount of Rs. 27.5 Lakhs on dated 30/03/2024
- ii) Amount of Rs. 16.5 Lakhs on dated 23/04/2024.

This is for your information please.

Deputy Conservator of Forests,  
Nalagarh, Forest Division  
Nalagarh Distt. Solan, HP.

## **Annexure D**

### **Fugitive Dust Emission Monitoring Reports**



# Environ Tech Laboratories

CPCB Recognized under EPA, 1986; ISO 9001:2015; 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



TC-5879



## TEST REPORT

Ambuja Cement Limited  
Village Navagraon  
Tehsil Nalagarh distt Solan HP-174010

Customer Ref. Number	PO. No.2800983325/NE29, Dated 10 Feb 2024	Report No.	ETL/16092024/2611
Sample Code given by Customer	N.M	Report Date.	16.09.2024
Type of Sample	Work Zone Air	ULR No.	TC587924000003622F
Sampling Condition	Satisfactory	Sample Reg No.	ETL/A/10092024/2611
Quantity	1.00 NOS	Date of Sampling	09.09.2024
Sampling Location	Near Packer Operator	Date of Sample Receipt	10.09.2024
Sample Collected By	K.K Mishra & Team	Date of Test Performance	10.09.2024 - 16.09.2024
Sampling Procedure	As Per Lab SOP	Packing Mode	Plastic Bottle & Air Tight Bag

Discipline: Chemical

Group: Atmospheric Pollution

TECHNICAL DATA		
1	Instrument Used for Sampling	Handy Sampler
2	Source of Sampling	Work Zone Air
3	Flow Rate of Sampling	1 LPM
4	Time Period for Sampling	480 Minutes

Sr.No.	PARAMETERS	RESULTS	LIMIT	TEST METHOD
1	Respirable Suspended Particulate Matter(RSPM),mg/m <sup>3</sup>	0.687	As per OSHA 5.0	ETL/WZ/2022/SOP No.15
2	Sulphur Dioxide as SO <sub>2</sub> ,mg/m <sup>3</sup>	0.008	As per Factory act 1948 Schedule II 5.0	ETL/WZ/2022/SOP No.16
3	Nitrogen Dioxide as NO <sub>2</sub> ,mg/m <sup>3</sup>	0.018	As per Factory act 1948 Schedule II 6.0	ETL/WZ/2022/SOP No.17
4	Carbon Monoxide as CO,mg/m <sup>3</sup>	0.73	As per Factory act 1948 Schedule II 40.0	ETL/WZ/2022/SOP No.18

\*\*END OF REPORT\*\*



*Rameshwar Kumar*  
(Authorized Signatory)  
Technical Manager-II  
Environ Tech Laboratories

Note:

DL: Denotes Detection Limit

- 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.

Page 1 of 1

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 EPA, 1986; ISO 9001:2015; 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



TC-5879



## TEST REPORT

Ambuja Cement Limited  
Village Navagraon  
Tehsil Nalagarh distt Solan HP-174010

Customer Ref. Number	PO. No.2800983325/NE29, Dated 10 Feb 2024	Report No.	ETL/16092024/2612
Sample Code given by Customer	N.M	Report Date.	16.09.2024
Type of Sample	Work Zone Air	ULR No.	TC587924000003623F
Sampling Condition	Satisfactory	Sample Reg No.	ETL/A/10092024/2612
Quantity	1.00 NOS	Date of Sampling	09.09.2024
Sampling Location	Material Gate	Date of Sample Receipt	10.09.2024
Sample Collected By	K.K Mishra & Team	Date of Test Performance	10.09.2024 - 16.09.2024
Sampling Procedure	As Per Lab SOP	Packing Mode	Plastic Bottle & Air Tight Bag

Discipline: Chemical

Group: Atmospheric Pollution

TECHNICAL DATA		
1	Instrument Used for Sampling	Handy Sampler
2	Source of Sampling	Work Zone Air
3	Flow Rate of Sampling	1 LPM
4	Time Period for Sampling	480 Minutes

Sl.No.	PARAMETERS	RESULTS	LIMIT	TEST METHOD
1	Respirable Suspended Particulate Matter(RSPM),mg/m <sup>3</sup>	0.208	As per OSHA 5.0	ETL/WZ/2022/SOP No.15
2	Sulphur Dioxide as SO <sub>2</sub> ,mg/m <sup>3</sup>	0.007	As per Factory act 1948 Schedule II 5.0	ETL/WZ/2022/SOP No.16
3	Nitrogen Dioxide as NO <sub>2</sub> ,mg/m <sup>3</sup>	0.016	As per Factory act 1948 Schedule II 6.0	ETL/WZ/2022/SOP No.17
4	Carbon Monoxide as CO,mg/m <sup>3</sup>	0.70	As per Factory act 1948 Schedule II 40.0	ETL/WZ/2022/SOP No.18

\*\*END OF REPORT\*\*



Rameshwar Kumar  
(Authorized Signatory)  
Technical Manager-II  
Environ Tech Laboratories

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Mob. 9464000081, 9417220081, 9417210081, (O) 94630-00081, 0172-4630081  
GSTIN : 03BPEPS9693P1ZV, PAN No. BPEPS9693P



TC-5879



## TEST REPORT

Ambuja Cement Limited  
Village Navagraon  
Tehsil Nalagarh distt Solan HP-174010

Customer Ref. Number	PO. No.2800983325/NE29, Dated 10 Feb 2024	Report No.	ETL/16092024/2643
Sample Code given by Customer	N.M	Report Date.	16.09.2024
Type of Sample	Work Zone Air	ULR No.	TC587924000003654F
Sampling Condition	Satisfactory	Sample Reg No.	ETL/A/11092024/2643
Quantity	1.00 NOS	Date of Sampling	10.09.2024
Sampling Location	Near Gypsum Feeding Operator	Date of Sample Receipt	11.09.2024
Sample Collected By	K.K Mishra & Team	Date of Test Performance	11.09.2024 - 16.09.2024
Sampling Procedure	As Per Lab SOP	Packing Mode	Plastic Bottle & Air Tight Bag

Discipline: Chemical

Group: Atmospheric Pollution

### TECHNICAL DATA

1	Instrument Used for Sampling	Handy Sampler
2	Source of Sampling	Work Zone Air
3	Flow Rate of Sampling	1 LPM
4	Time Period for Sampling	480 Minutes

Sr.No.	PARAMETERS	RESULTS	LIMIT	TEST METHOD
1	Respirable Suspended Particulate Matter(RSPM),mg/m <sup>3</sup>	0.833	As per OSHA 5.0	ETL/WZ/2022/SOP No.15
2	Sulphur Dioxide as SO <sub>2</sub> ,mg/m <sup>3</sup>	0.010	As per Factory act 1948 Schedule II 5.0	ETL/WZ/2022/SOP No.16
3	Nitrogen Dioxide as NO <sub>2</sub> ,mg/m <sup>3</sup>	0.022	As per Factory act 1948 Schedule II 6.0	ETL/WZ/2022/SOP No.17
4	Carbon Monoxide as CO,mg/m <sup>3</sup>	0.80	As per Factory act 1948 Schedule II 40.0	ETL/WZ/2022/SOP No.18

\*\*END OF REPORT\*\*



Rameshwar Kumar  
(Authorized Signatory)  
Technical Manager-II  
Environ Tech Laboratories

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TC-5879



## TEST REPORT

Ambuja Cement Limited  
Village Navagraon  
Tehsil Nalagarh distt Solan HP-174010

Customer Ref. Number	PO. No.2800983325/NE29, Dated 10 Feb 2024	Report No.	ETL/16092024/2644
Sample Code given by Customer	N.M	Report Date.	16.09.2024
Type of Sample	Work Zone Air	ULR No.	TC587924000003655F
Sampling Condition	Satisfactory	Sample Reg No.	ETL/A/11092024/2644
Quantity	1.00 NOS	Date of Sampling	10.09.2024
Sampling Location	Near Fly Ash Unloading Operator	Date of Sample Receipt	11.09.2024
Sample Collected By	K.K Mishra & Team	Date of Test Performance	11.09.2024 - 16.09.2024
Sampling Procedure	As Per Lab SOP	Packing Mode	Plastic Bottle & Air Tight Bag

Discipline: Chemical

Group: Atmospheric Pollution

TECHNICAL DATA		
1	Instrument Used for Sampling	Handy Sampler
2	Source of Sampling	Work Zone Air
3	Flow Rate of Sampling	1 LPM
4	Time Period for Sampling	480 Minutes

Sr.No.	PARAMETERS	RESULTS	LIMIT	TEST METHOD
1	Respirable Suspended Particulate Matter(RSPM),mg/m <sup>3</sup>	0.979	As per OSHA 5.0	ETL/WZ/2022/SOP No.15
2	Sulphur Dioxide as SO <sub>2</sub> ,mg/m <sup>3</sup>	0.011	As per Factory act 1948 Schedule II 5.0	ETL/WZ/2022/SOP No.16
3	Nitrogen Dioxide as NO <sub>2</sub> ,mg/m <sup>3</sup>	0.020	As per Factory act 1948 Schedule II 6.0	ETL/WZ/2022/SOP No.17
4	Carbon Monoxide as CO,mg/m <sup>3</sup>	0.85	As per Factory act 1948 Schedule II 40.0	ETL/WZ/2022/SOP No.18

\*\*END OF REPORT\*\*



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Technical Manager-II  
Environ Tech Laboratories

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## **Annexure B**

### **Ambient Air Quality Monitoring Reports**



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GSTIN : 03BPEPS9693P1ZV, PAN No. BPEPS9693P



TC-5879



## TEST REPORT

Ambuja Cement Limited  
Village Navagraon  
Tehsil Nalagarh distt Solan HP-174010

Customer Ref. Number	PO, No.2800983325/NE29, Dated 10 Feb 2024	Report No.	ETL/17092024/2653
Sample Code given by Customer	N.M	Report Date.	17.09.2024
Type of Sample	Ambient Air	ULR No.	TC587924000003661F
Sampling Condition	Satisfactory	Sample Reg No.	ETL/A/11092024/2653
Quantity	1.00 NOS	Date of Sampling	10.09.2024 - 11.09.2024
Sampling Location	Guest House	Date of Sample Receipt	11.09.2024
Sample Collected By	K.K Mishra & Team	Date of Test Performance	12.09.2024 - 17.09.2024
Sampling Procedure	As Per Lab SOP	Packing Mode	Plastic Bottle & Air Tight Bag

Discipline: Chemical Group: Atmospheric Pollution

TECHNICAL DATA		
1	Location of Sampling Station	Guest House
2	Instrument Used for Sampling	RDS , PM2.5 Sampler & Gaseous Sampler
3	Source of Sampling	Ambient Air Monitoring
4	Temperature of Sampling Location	30 °C
5	Environmental Condition	Max temp. 32°C Min temp. 26°C Clear Sky
6	Flow Rate of Gaseous Sampling	0.2 & 1 LPM
7	Time Period for Sampling	24 Hrs

Sr.No.	PARAMETERS	RESULTS	STANDARD	DETECTION LIMIT	TEST METHOD
1	Respirable Suspended Particulate Matter( PM10 )	78	100.0 µg/m3	10 µg/m3	IS:5182(P-23) 2006
2	Sulphur Dioxide (SO2)	9	80.0 µg/m3	2.0 µg/m3	IS:5182(P-2) 2001
3	Nitrogen Dioxide (NO2)	20	80.0 µg/m3	2.0 µg/m3	IS:5182(P-6) 2006
4	Fine Particulate Matter(PM2.5)	40	60.0 µg/m3	10 µg/m3	IS: 5182(P-24) 2019
5	Carbon Monoxide (CO)	0.80	4.0 mg/m3 (1 hr)	0.5 mg/m3	IS:5182(P-10) 1999
6	Nickel (Ni)	BDL	20.0 ng/m3	15 ng/m3	IS:5182(P-26) 2020
7	Arsenic (As)	BDL	6.0 ng/m3	5.0 ng/m3	SOP No.ETL/Air/2022/08
8	Lead (Pb)	Not Detected	1.0 µg/m3	0.1 µg/m3	IS:5182(P-22) 2004
9	Benzene (C6H6)	BDL	5.0 µg/m3	0.5 µg/m3	IS:5182(P-11) 2006
10	Benzo(a)pyrene (BaP)		1.0 ng/m3	1.0 ng/m3	IS:5182(P-12) 2004
11	Ammonia (NH3)	BDL	400.0 µg/m3	20 µg/m3	IS:5182(P-25) 2018
12	Ozone (O3)	17	180.0 µg/m3(1hr)	5.0 µg/m3	IS:5182 (P-9) 1974

\*\*END OF REPORT\*\*



Rameshwar Kumar  
(Authorized Signatory)  
Technical Manager-II  
Environ Tech Laboratories

Note: ND: Not Detected BDL: Denotes Below Detection Limit DL: Denotes Detection Limit

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TC-5879



## TEST REPORT

Ambuja Cement Limited  
Village Navagraon  
Tehsil Nalagarh distt Solan HP-174010

Customer Ref. Number	PO. No.2800983325/NE29, Dated 10 Feb 2024	Report No.	ETL/17092024/2654
Sample Code given by Customer	N.M	Report Date.	17.09.2024
Type of Sample	Ambient Air	ULR No.	TC587924000003662F
Sampling Condition	Satisfactory	Sample Reg No.	ETL/A/11092024/2654
Quantity	1.00 NOS	Date of Sampling	10.09.2024 - 11.09.2024
Sampling Location	Nursery	Date of Sample Receipt	11.09.2024
Sample Collected By	K.K Mishra & Team	Date of Test Performance	12.09.2024 - 17.09.2024
Sampling Procedure	As Per Lab SOP	Packing Mode	Plastic Bottle & Air Tight Bag

Discipline: Chemical Group: Atmospheric Pollution

TECHNICAL DATA	
1	Location of Sampling Station
2	Instrument Used for Sampling
3	Source of Sampling
4	Temperature of Sampling Location
5	Environmental Condition
6	Flow Rate of Gaseous Sampling
7	Time Period for Sampling

Sr.No.	PARAMETERS	RESULTS	STANDARD	DETECTION LIMIT	TEST METHOD
1	Respirable Suspended Particulate Matter( PM10 )	85	100.0 µg/m3	10 µg/m3	IS:5182(P-23) 2006
2	Sulphur Dioxide (SO2)	10	80.0 µg/m3	2.0 µg/m3	IS:5182(P-2) 2001
3	Nitrogen Dioxide (NO2)	22	80.0 µg/m3	2.0 µg/m3	IS:5182(P-6) 2006
4	Fine Particulate Matter(PM2.5)	43	60.0 µg/m3	10 µg/m3	IS: 5182(P-24) 2019
5	Carbon Monoxide (CO)	0.92	4.0 mg/m3 (1 hr)	0.5 mg/m3	IS:5182(P-10) 1999
6	Nickel (Ni)	BDL	20.0 ng/m3	15 ng/m3	IS:5182(P-26) 2020
7	Arsenic (As)	BDL	6.0 ng/m3	5.0 ng/m3	SOP No.ETL/Air/2022/08
8	Lead (Pb)	BDL	1.0 µg/m3	0.1 µg/m3	IS:5182(P-22) 2004
9	Benzene (C6H6)	BDL	5.0 µg/m3	0.5 µg/m3	IS:5182(P-11) 2006
10	Benzo(a)pyrene (BaP)	BDL	1.0 ng/m3	1.0 ng/m3	IS:5182(P-12) 2004
11	Ammonia (NH3)	BDL	400.0 µg/m3	20 µg/m3	IS:5182(P-25) 2018
12	Ozone (O3)	19	180.0 µg/m3(1hr)	5.0 µg/m3	IS:5182 (P-9) 1974

\*\*END OF REPORT\*\*



Rameshwar Kumar  
(Authorized Signatory)  
Technical Manager-II  
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TC-5879



## TEST REPORT

Ambuja Cement Limited  
Village Navagraon  
Tehsil Nalagarh distt Solan HP-174010

Customer Ref. Number	PO. No.2800983325/NE29, Dated 10 Feb 2024	Report No.	ETL/17092024/2655
Sample Code given by Customer	N.M	Report Date.	17.09.2024
Type of Sample	Ambient Air	ULR No.	TC587924000003663F
Sampling Condition	Satisfactory	Sample Reg No.	ETL/A/11092024/2655
Quantity	1.00 NOS	Date of Sampling	10.09.2024 - 11.09.2024
Sampling Location	STP Area	Date of Sample Receipt	11.09.2024
Sample Collected By	K.K Mishra & Team	Date of Test Performance	12.09.2024 - 17.09.2024
Sampling Procedure	As Per Lab SOP	Packing Mode	Plastic Bottle & Air Tight Bag

Discipline: Chemical		Group: Atmospheric Pollution
TECHNICAL DATA		
1	Location of Sampling Station	STP Area
2	Instrument Used for Sampling	RDS , PM2.5 Sampler & Gaseous Sampler
3	Source of Sampling	Ambient Air Monitoring
4	Temperature of Sampling Location	30 °C
5	Environmental Condition	Max temp. 32°C
		Min temp. 26°C
		Clear Sky
6	Flow Rate of Gaseous Sampling	0.2 & 1 LPM
7	Time Period for Sampling	24 Hrs

Sr.No.	PARAMETERS	RESULTS	STANDARD	DETECTION LIMIT	TEST METHOD
1	Respirable Suspended Particulate Matter( PM10 )	90	100.0 µg/m3	10 µg/m3	IS:5182(P-23) 2006
2	Sulphur Dioxide (SO2)	11	80.0 µg/m3	2.0 µg/m3	IS:5182(P-2) 2001
3	Nitrogen Dioxide (NO2)	24	80.0 µg/m3	2.0 µg/m3	IS:5182(P-6) 2006
4	Fine Particulate Matter(PM2.5)	45	60.0 µg/m3	10 µg/m3	IS: 5182(P-24) 2019
5	Carbon Monoxide (CO)	1.0	4.0 mg/m3 (1 hr)	0.5 mg/m3	IS:5182(P-10) 1999
6	Nickel (Ni)	BDL	20.0 ng/m3	15 ng/m3	IS:5182(P-26) 2020
7	Arsenic (As)	BDL	6.0 ng/m3	5.0 ng/m3	SOP No.ETL/Air/2022/08
8	Lead (Pb)	BDL	1.0 µg/m3	0.1 µg/m3	IS:5182(P-22) 2004
9	Benzene (C6H6)	BDL	5.0 µg/m3	0.5 µg/m3	IS:5182(P-11) 2006
10	Benzo(a)pyrene (BaP)	BDL	1.0 ng/m3	1.0 ng/m3	IS:5182(P-12) 2004
11	Ammonia (NH3)	BDL	400.0 µg/m3	20 µg/m3	IS:5182(P-25) 2018
12	Ozone (O3)	20	180.0 µg/m3(1hr)	5.0 µg/m3	IS:5182 (P-9) 1974

\*\*END OF REPORT\*\*

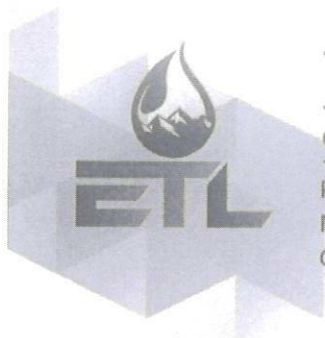


Rameshwar Kumar  
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Technical Manager-II  
Environ Tech Laboratories

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GSTIN : 03BPEPS9693P1ZV, PAN No. BPEPS9693P



TC-5879

## TEST REPORT



Ambuja Cement Limited  
Village Navagraon  
Tehsil Nalagarh distt Solan HP-174010

Customer Ref. Number	PO. No.2800983325/NE29, Dated 10 Feb 2024	Report No.	ETL/17092024/2606
Sample Code given by Customer	N.M	Report Date.	17.09.2024
Type of Sample	Ambient Air	ULR No.	TC587924000003617F
Sampling Condition	Satisfactory	Sample Reg No.	ETL/A/10092024/2606
Quantity	1.00 NOS	Date of Sampling	09.09.2024 - 10.09.2024
Sampling Location	Station No.1(Labour Hutment Towards Jujhru)	Date of Sample Receipt	10.09.2024
Sample Collected By	K.K Mishra & Team	Date of Test Performance	10.09.2024 - 17.09.2024
Sampling Procedure	As Per Lab SOP	Packing Mode	Plastic Bottle & Air Tight Bag

Discipline: Chemical Group: Atmospheric Pollution

TECHNICAL DATA	
1	Location of Sampling Station
2	Instrument Used for Sampling
3	Source of Sampling
4	Temperature of Sampling Location
5	Environmental Condition
6	Flow Rate of Gaseous Sampling
7	Time Period for Sampling

Sr.No.	PARAMETERS	RESULTS	STANDARD	DETECTION LIMIT	TEST METHOD
1	Respirable Suspended Particulate Matter( PM10 )	74	100.0 µg/m3	10 µg/m3	IS:5182(P-23) 2006
2	Sulphur Dioxide (SO2)	8	80.0 µg/m3	2.0 µg/m3	IS:5182(P-2) 2001
3	Nitrogen Dioxide (NO2)	20	80.0 µg/m3	2.0 µg/m3	IS:5182(P-6) 2006
4	Fine Particulate Matter(PM2.5)	38	60.0 µg/m3	10 µg/m3	IS: 5182(P-24) 2019
5	Carbon Monoxide (CO)	0.70	4.0 mg/m3 (1 hr)	0.5 mg/m3	IS: 5182(P-10) 1999
6	Nickel (Ni)	BDL	20.0 ng/m3	15 ng/m3	IS:5182(P-26) 2020
7	Arsenic (As)	BDL	6.0 ng/m3	5.0 ng/m3	SOP No.ETL/Air/2022/08
8	Lead (Pb)	BDL	1.0 µg/m3	0.1 µg/m3	IS:5182(P-22) 2004
9	Benzene (C6H6)	BDL	5.0 µg/m3	0.5 µg/m3	IS:5182(P-11) 2006
10	Benzo(a)pyrene (BaP)	BDL	1.0 ng/m3	1.0 ng/m3	IS:5182(P-12) 2004
11	Ammonia (NH3)	BDL	400.0 µg/m3	20 µg/m3	IS:5182(P-25) 2018
12	Ozone (O3)	17	180.0 µg/m3(1hr)	5.0 µg/m3	IS:5182 (P-9) 1974

\*\*END OF REPORT\*\*



Rameshwar Kumar  
(Authorized Signatory)  
Technical Manager-II  
Environ Tech Laboratories

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GSTIN : 03BPEPS9693P1ZV, PAN No. BPEPS9693P



TC-5879



## TEST REPORT

Ambuja Cement Limited  
Village Navagraon  
Tehsil Nalagarh distt Solan HP-174010

Customer Ref. Number	PO. No.2800983325/NE29, Dated 10 Feb 2024	Report No.	ETL/17092024/2607
Sample Code given by Customer	N.M	Report Date.	17.09.2024
Type of Sample	Ambient Air	ULR No.	TC587924000003618F
Sampling Condition	Satisfactory	Sample Reg No.	ETL/A/10092024/2607
Quantity	1.00 NOS	Date of Sampling	09.09.2024 - 10.09.2024
Sampling Location	Station No.2, Near Rain Water Harvesting Structure	Date of Sample Receipt	10.09.2024
Sample Collected By	K.K Mishra & Team	Date of Test Performance	10.09.2024 - 17.09.2024
Sampling Procedure	As Per Lab SOP	Packing Mode	Plastic Bottle & Air Tight Bag

Discipline: Chemical		Group: Atmospheric Pollution
TECHNICAL DATA		
1	Location of Sampling Station	Station No.2, Near Rain Water Harvesting Structure
2	Instrument Used for Sampling	RDS , PM2.5 Sampler & Gaseous Sampler
3	Source of Sampling	Ambient Air Monitoring
4	Temperature of Sampling Location	30 °C
5	Environmental Condition	Max temp. 32 °C
		Min temp. 26°C
		Clear Sky
6	Flow Rate of Gaseous Sampling	0.2 & 1 LPM
7	Time Period for Sampling	24 Hrs

Sr.No.	PARAMETERS	RESULTS	STANDARD	DETECTION LIMIT	TEST METHOD
1	Respirable Suspended Particulate Matter( PM10 )	72	100.0 µg/m3	10 µg/m3	IS:5182(P-23) 2006
2	Sulphur Dioxide (SO2)	7	80.0 µg/m3	2.0 µg/m3	IS:5182(P-2) 2001
3	Nitrogen Dioxide (NO2)	18	80.0 µg/m3	2.0 µg/m3	IS:5182(P-6) 2006
4	Fine Particulate Matter(PM2.5)	36	60.0 µg/m3	10 µg/m3	IS: 5182(P-24) 2019
5	Carbon Monoxide (CO)	0.78	4.0 mg/m3 (1 hr)	0.5 mg/m3	IS:5182(P-10) 1999
6	Nickel (Ni)	BDL	20.0 ng/m3	15 ng/m3	IS:5182(P-26) 2020
7	Arsenic (As)	BDL	6.0 ng/m3	5.0 ng/m3	SOP No.ETL/Air/2022/08
8	Lead (Pb)	BDL	1.0 µg/m3	0.1 µg/m3	IS:5182(P-22) 2004
9	Benzene (C6H6)	BDL	5.0 µg/m3	0.5 µg/m3	IS:5182(P-11) 2006
10	Benzo(a)pyrene (BaP)	BDL	1.0 ng/m3	1.0 ng/m3	IS:5182(P-12) 2004
11	Ammonia (NH3)	BDL	400.0 µg/m3	20 µg/m3	IS:5182(P-25) 2018
12	Ozone (O3)	16	180.0 µg/m3(1hr)	5.0 µg/m3	IS:5182 (P-9) 1974

\*\*END OF REPORT\*\*



Rameshwar Kumar  
(Authorized Signatory)  
Technical Manager-II  
Environ Tech Laboratories

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GSTIN : 03BPEPS9693P1ZV, PAN No. BPEPS9693P



TC-5879



## TEST REPORT

Ambuja Cement Limited  
Village Navagraon  
Tehsil Nalagarh distt Solan HP-174010

Customer Ref. Number	PO. No.2800983325/NE29, Dated 10 Feb 2024	Report No.	ETL/17092024/2608
Sample Code given by Customer	N.M	Report Date.	17.09.2024
Type of Sample	Ambient Air	ULR No.	TC587924000003619F
Sampling Condition	Satisfactory	Sample Reg No.	ETL/A/10092024/2608
Quantity	1.00 NOS	Date of Sampling	09.09.2024 - 10.09.2024
Sampling Location	Station No.3, Near Administrative Building	Date of Sample Receipt	10.09.2024
Sample Collected By	K.K Mishra & Team	Date of Test Performance	10.09.2024 - 17.09.2024
Sampling Procedure	As Per Lab SOP	Packing Mode	Plastic Bottle & Air Tight Bag

Discipline: Chemical		Group: Atmospheric Pollution
TECHNICAL DATA		
1	Location of Sampling Station	Station No.3, Near Administrative Building
2	Instrument Used for Sampling	RDS , PM2.5 Sampler & Gaseous Sampler
3	Source of Sampling	Ambient Air Monitoring
4	Temperature of Sampling Location	30 °C
5	Environmental Condition	Max temp. 32°C
		Min temp. 26°C
		Clear Sky
6	Flow Rate of Gaseous Sampling	0.2 & 1 LPM
7	Time Period for Sampling	24 Hrs

Sr.No.	PARAMETERS	RESULTS	STANDARD	DETECTION LIMIT	TEST METHOD
1	Respirable Suspended Particulate Matter( PM10 )	83	100.0 µg/m3	10 µg/m3	IS:5182(P-23) 2006
2	Sulphur Dioxide (SO2)	8	80.0 µg/m3	2.0 µg/m3	IS:5182(P-2) 2001
3	Nitrogen Dioxide (NO2)	21	80.0 µg/m3	2.0 µg/m3	IS:5182(P-6) 2006
4	Fine Particulate Matter(PM2.5)	41	60.0 µg/m3	10 µg/m3	IS: 5182(P-24) 2019
5	Carbon Monoxide (CO)	0.88	4.0 mg/m3 (1 hr)	0.5 mg/m3	IS:5182(P-10) 1999
6	Nickel (Ni)	BDL	20.0 ng/m3	15 ng/m3	IS:5182(P-26) 2020
7	Arsenic (As)	BDL	6.0 ng/m3	5.0 ng/m3	SOP No.ETL/Air/2022/08
8	Lead (Pb)	BDL	1.0 µg/m3	0.1 µg/m3	IS:5182(P-22) 2004
9	Benzene (C6H6)	BDL	5.0 µg/m3	0.5 µg/m3	IS:5182(P-11) 2006
10	Benzo(a)pyrene (BaP)	BDL	1.0 ng/m3	1.0 ng/m3	IS:5182(P-12) 2004
11	Ammonia (NH3)	BDL	400.0 µg/m3	20 µg/m3	IS:5182(P-25) 2018
12	Ozone (O3)	21	180.0 µg/m3(1hr)	5.0 µg/m3	IS:5182 (P-9) 1974

\*\*END OF REPORT\*\*



Rameshwar Kumar  
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Technical Manager-II  
Environ Tech Laboratories

Note: BDL: Denotes Below Detection Limit DL: Denotes Detection Limit  
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# **Annexure A**

## **Stack Emission Reports**





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GSTIN : 03BPEPS9693P1ZV, PAN No. BPEPS9693P



TC-5879



## TEST REPORT

Ambuja Cement Limited  
Village Navagraon  
Tehsil Nalagarh distt Solan HP-174010

Customer Ref. Number	PO. No.2800983325/NE29, Dated 10 Feb 2024	Report No.	ETL/16092024/2609
Sample Code given by Customer	N.M	Report Date.	16.09.2024
Type of Sample	Stack Emission	ULR No.	TC587924000003620F
Sampling Condition	Satisfactory	Sample Reg No.	ETL/A/10092024/2609
Quantity	1.00 NOS	Date of Sampling	09.09.2024
Sampling Location	Process Stack of Packing Plant(PackerNo.2)	Date of Sample Receipt	10.09.2024
Sample Collected By	K.K Mishra & Team	Date of Test Performance	10.09.2024 - 16.09.2024
Sampling Procedure	As Per Lab SOP	Packing Mode	Air Tight Bag

Discipline: Chemical

Group: Atmospheric Pollution

TECHNICAL DATA			
Instrument Used for Sampling		Stack Monitoring Instrument	
Source of Emission		Stack Attached to Packing Plant(PackerNo.2)	
Engine S. No	--	Model Name	--
Mfg. Year	--	Type of Fuel Used	Electricity
Diameter Of Stack mtr.	1.0	Fuel Used Qty. (Per Hour)	--
Stack Height from Ground Level mtr.	31.6	Type Of Stack	Circular & Metal
Ambient Temperature °C	31	Average Flow Rate (LPM)	29
Stack Temperature °C	44	Sampling Duration (min)	34
Velocity of Flue Gases (m/s)	7.19	Control Measure (if any)	Bag filter
Sampling Point	Sampling done from stack of port hole	Volumetric flow rate (Nm <sup>3</sup> /Hr)	18868

Sr.No.	PARAMETERS	RESULTS	Limits as per CPCB	TEST METHOD
1	Particulate Matter as PM <sub>10</sub> /Nm <sup>3</sup>	24	150	IS11255(P-1) 1985

\*\*END OF REPORT\*\*



*Rameshwar Kumar*  
(Authorized Signatory)  
Technical Manager-II  
Environ Tech Laboratories

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GSTIN : 03BPEPS9693P1ZV, PAN No. BPEPS9693P



TC-5879



## TEST REPORT

Ambuja Cement Limited  
Village Navagraon  
Tehsil Nalagarh distt Solan HP-174010

Customer Ref. Number	PO. No.2800983325/NE29, Dated 10 Feb 2024	Report No.	ETL/16092024/2610
Sample Code given by Customer	N.M	Report Date.	16.09.2024
Type of Sample	Stack Emission	ULR No.	TC587924000003621F
Sampling Condition	Satisfactory	Sample Reg No.	ETL/A/10092024/2610
Quantity	1.00 NOS	Date of Sampling	09.09.2024
Sampling Location	Process Stack of Packing Plant(PackerNo.1)	Date of Sample Receipt	10.09.2024
Sample Collected By	K.K Mishra & Team	Date of Test Performance	10.09.2024 - 16.09.2024
Sampling Procedure	As Per Lab SOP	Packing Mode	Air Tight Bag

Discipline: Chemical

Group: Atmospheric Pollution

TECHNICAL DATA			
Instrument Used for Sampling		Stack Monitoring Instrument	
Source of Emission		Stack Attached to Packing Plant(PackerNo.1)	
Engine S. No	--	Model Name	--
Mfg. Year	--	Type of Fuel Used	Electricity
Diameter Of Stack mtr.	1.0	Fuel Used Qty. (Per Hour)	--
Stack Height from Ground Level mtr.	31.6	Type Of Stack	Circular & Metal
Ambient Temperature °C	31	Average Flow Rate (LPM)	27
Stack Temperature °C	43	Sampling Duration (min)	37
Velocity of Flue Gases (m/s)	6.78	Control Measure (if any)	Bag Filter
Sampling Point	Sampling done from stack of port hole	Volumetric flow rate (Nm <sup>3</sup> /Hr)	17848

Sr.No.	PARAMETERS	RESULTS	Limits as per CPCB	TEST METHOD
1	Particulate Matter as PM <sub>10</sub> /Nm <sup>3</sup>	21	150	IS11255(P-1) 1985

\*\*END OF REPORT\*\*



Rameshwar Kumar  
(Authorized Signatory)  
Technical Manager-II  
Environ Tech Laboratories

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GSTIN : 03BPEPS9693P1ZV, PAN No. BPEPS9693P



TC-5879



## TEST REPORT

Ambuja Cement Limited  
Village Navagraon  
Tehsil Nalagarh distt Solan HP-174010

Customer Ref. Number	PO. No.2800983325/NE29, Dated 10 Feb 2024	Report No.	ETL/16092024/2640
Sample Code given by Customer	N.M	Report Date.	16.09.2024
Type of Sample	Stack Emission	ULR No.	TC587924000003651F
Sampling Condition	Satisfactory	Sample Reg No.	ETL/A/11092024/2640
Quantity	1.00 NOS	Date of Sampling	10.09.2024
Sampling Location	Process Stack of Clinker Tippler No.1	Date of Sample Receipt	11.09.2024
Sample Collected By	K.K Mishra & Team	Date of Test Performance	11.09.2024 - 16.09.2024
Sampling Procedure	As Per Lab SOP	Packing Mode	Air Tight Bag

Discipline: Chemical

Group: Atmospheric Pollution

TECHNICAL DATA			
Instrument Used for Sampling		Stack Monitoring Instrument	
Source of Emission		Stack Attached to Clinker Tippler No.1	
Engine S. No	--	Model Name	--
Mfg. Year	--	Type of Fuel Used	Electricity
Diameter Of Stack mtr.	1.0	Fuel Used Qty. (Per Hour)	--
Stack Height from Ground Level mtr.	32.0	Type Of Stack	Circular & Metal
Ambient Temperature °C	30	Average Flow Rate (LPM)	27
Stack Temperature °C	41	Sampling Duration (min)	37
Velocity of Flue Gases (m/s)	6.65	Control Measure (if any)	Bag filter
Sampling Point	Sampling done from stack of port hole	Volumetric flow rate (Nm <sup>3</sup> /Hr)	17617

Sr.No.	PARAMETERS	RESULTS	Limits as per CPCB	TEST METHOD
1	Particulate Matter as PM <sub>10</sub> /Nm <sup>3</sup>	19	150	ISI1255(P-1) 1985

\*\*END OF REPORT\*\*



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GSTIN : 03BPEPS9693P1ZV, PAN No. BPEPS9693P



TC-5879



## TEST REPORT

Ambuja Cement Limited  
Village Navagraon  
Tehsil Nalagarh distt Solan HP-174010

Customer Ref. Number	PO. No.2800983325/NE29, Dated 10 Feb 2024	Report No.	ETL/16092024/2641
Sample Code given by Customer	N.M	Report Date.	16.09.2024
Type of Sample	Stack Emission	ULR No.	TC587924000003652F
Sampling Condition	Satisfactory	Sample Reg No.	ETL/A/11092024/2641
Quantity	1.00 NOS	Date of Sampling	10.09.2024
Sampling Location	Process Stack of Clinker Tippler No.1	Date of Sample Receipt	11.09.2024
Sample Collected By	K.K Mishra & Team	Date of Test Performance	11.09.2024 - 16.09.2024
Sampling Procedure	As Per Lab SOP	Packing Mode	Air Tight Bag

Discipline: Chemical

Group: Atmospheric Pollution

TECHNICAL DATA			
Instrument Used for Sampling		Stack Monitoring Instrument	
Source of Emission		Stack Attached to Clinker Tippler No.1	
Engine S. No	--	Model Name	--
Mfg. Year	--	Type of Fuel Used	Electricity
Diameter Of Stack mtr.	1.0	Fuel Used Qty. (Per Hour)	--
Stack Height from Ground Level mtr.	32	Type Of Stack	Circular & Metal
Ambient Temperature °C	30	Average Flow Rate (LPM)	27
Stack Temperature °C	42	Sampling Duration (min)	37
Velocity of Flue Gases (m/s)	6.70	Control Measure (if any)	Bag filter
Sampling Point	Sampling done from stack of port hole	Volumetric flow rate (Nm <sup>3</sup> /Hr)	17720

Sr.No.	PARAMETERS	RESULTS	Limits as per CPCB	TEST METHOD
1	Particulate Matter as PM <sub>10</sub> /Nm <sup>3</sup>	22	150	IS11255(P-I) 1985

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TC-5879



## TESTREPORT

Ambuja Cement Limited

Village Navagraon, Tehsil Nalagarh distt Solan HP-174010

Customer Ref. Number	NM	Report No.	ETL/16092024/2614
Sample Code given by Customer	N.M	Report Date.	16.09.2024
Type of Sample	Stack Emission	ULR No.	TC587924000003625F
Sampling Condition	Satisfactory	Sample Reg No.	ETL/A/10092024/2614
Quantity	1.00NOS	Date of Sampling	09.09.2024
Sampling Location	Stack of Vertical Roller Mill	Date of Sample Receipt	10.09.2024
Sample Collected By	Mr. K.K Mishra & Team	Date of Test Performance	10.09.2024 - 16.09.2024
Sampling Procedure	As per Lab SOP	Packing Mode	Air Tight Bag

Discipline :Chemical

Group: Atmospheric Pollution

TECHNICAL DATA			
Instrument Used for Sampling		Stack Monitoring Instrument	
Source of Emission		Stack Attached to Vertical Roller Mill	
Engine S. No	--	Model Name	--
Mfg. Year	--	Type of Fuel Used	Electricity
Diameter Of Stack, mtr	1.0	Fuel Used Qty .(Per Hour)	--
Stack Height from Ground Level ,mtr	54	Type Of Stack	Circular & Metal
Ambient Temperature °C	30	Average Flow Rate (LPM)	14
Stack Temperature °C	93	Sampling Duration (min)	71
Velocity of Flue Gases(m/s)	9.03	Control Measure (if any)	--
Sampling Point	Sampling done from stack of port hole	Volumetric Flow Rate(Nm3/Hr)	20524

Sr. No.	PARAMETERS	RESULTS	Limits as per CPCB	TESTMETHOD
1	Particulate Matter (as PM) , mg/Nm <sup>3</sup>	27	30	IS11255(P-I)1985

\*\*ENDOFREPORT\*\*



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Environ Tech Laboratories

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## **Annexure C**

**CREP (Corporate Responsibility for  
Environment Protection )  
Recommendations Compliance**

## Annexure C

### 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.
8	After performance evaluation of various types of continuous monitoring	Continuous emission monitoring system has been installed at Cement

	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	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.



## **Annexure F**

### **Ground Water Quality Reports**



# Environ Tech Laboratories

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GSTIN : 03BPEPS9693P1ZV, PAN No. BPEPS9693P



TC-5879



## TEST REPORT

Ambuja Cement Limited  
Village Navagraon  
Tehsil Nalagarh distt Sofan HP-174010

Customer Ref. Number	PO. No.2800983325/NE29, Dated 10 Feb 2024	Report No.	ETL/16092024/2623
Sample Code given by Customer	N.M	Report Date.	16.09.2024
Type of Sample	Ground Water	ULR No.	TC587924000003634F
Sampling Condition	Satisfactory	Sample Reg No.	ETL/W/10092024/2623
Quantity	5.00 LTR	Date of Sampling	09.09.2024
Sampling Location	Near Dispensary(Borewell No.1)	Date of Sample Receipt	10.09.2024
Sample Collected By	K.K Mishra & Team	Date of Test Performance	11.09.2024 - 16.09.2024
Sampling Procedure	As Per Lab SOP	Packing Mode	Plastic & Glass Bottle

Discipline: Chemical

Group: Water

Sample Description: Clear and Colourless Liquid

### PART A

S.No.	Parameters	Results	Limits of IS: 10500 - 2012		Test method
			Requirement (Acceptable limit)	Permissible limit in absence of alternate source	
1	Colour (Hazen)	BDL	5	15	IS 3025(P-4) 2021; APHA 23rd Edition:2120B
2	Odour	agreeable	Agreeable	Agreeable	APHA 23rd Edition:2150 B
3	pH @ 25°C	7.24	6.5 - 8.5	No relaxation	IS 3025(P-11) 2022; APHA 23rd Edition:4500
4	Taste	agreeable	Agreeable	Agreeable	IS 3025(P-8) 2023
5	Turbidity	BDL	Max 1 NTU	Max 5 NTU	IS 3025 (P-10) 2023; APHA23rd Edition :2130B
6	Total Dissolved Solids (mg/l)	479	Max 500	Max 2000	IS 3025 (P-16) 2023; APHA 23rd Edition:2540 C
7	Ammonical Nitrogen as N (mg/l)	BDL	Max 0.5	No relaxation	IS 3025 (P-34) 1988; APHA 23rd Edition:4500-NH3 C
8	Calcium (as Ca) (mg/l)	68.9	Max 75	Max 200	IS 3025(P-40) 1991; APHA 23rd Edition 3500Ca B
9	Chloramines as Cl2 (mg/l)	BDL	Max 4	No relaxation	APHA 23rd Edition:4500 G
10	Chloride as Cl (mg/l)	17.5	Max 250	Max 1000	IS 3025(P-32) 1988; APHA 23rd Edition:4500 Cl B
11	Fluoride as F (mg/l)	0.25	Max 1.0	Max 1.5	APHA 23rd Edition:4500 F-D
12	Free Residual Chlorine (mg/l)	BDL	Max 0.2	Max 1	IS 3025 (P-26) 2021; APHA 23rd Edition :4500 Cl B
13	Magnesium (as Mg) (mg/l)	27.1	Max 30	Max 100	IS 3025 (Part-46) 2023; APHA23rd Edition :3500Mg B
14	Nitrate (as NO3) (mg/l)	16.8	Max 45	No relaxation	IS 3025 (P-34) 1988; APHA23rd Edition:4500 NO3 B



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Mob. 9464000081, 9417220081, 9417210081, (O) 94630-00081, 0172-4630081  
GSTIN : 03BPEPS9693P1ZV, PAN No. BPEPS9693P



TC-5879



## TEST REPORT

Ambuja Cement Limited  
Village Navagraon  
Tehsil Nalagarh distt Solan HP-174010

15	Phenolic Compunds (as C <sub>6</sub> H <sub>5</sub> OH) (mg/l)	BDL (DL=0.001)	Max 0.001	Max 0.002	APHA 23rd Edition Chloroform Extraction Method, 5530 C
16	Sulphate (as SO <sub>4</sub> ) (mg/l)	10.8	Max 200	Max 400	IS 3025 (P-24) Sec 1:2022; APHA 23rd Edition :4500 SO <sub>4</sub> E
17	Sulphide as S (mg/l)	BDL	Max 0.05	No relaxation	IS 3025(P-29) 2022; APHA 23rd Edition:4500 S F
18	Total Alkalinity (as CaCO <sub>3</sub> ) (mg/l)	363	Max 200	Max 600	IS 3025(P-23) 2023; APHA 23rd Edition:2320 B
19	Total Hardness(as CaCO <sub>3</sub> ) (mg/l)	284	Max 200	Max 600	IS 3025 (P-21) 2009; APHA 23rd Edition :2340 C
20	Boron as B (mg/l)	BDL	Max 0.5	Max 2.4	APHA 23rd Edition 4500B



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GSTIN : 03BPEPS9693P1ZV, PAN No. BPEPS9693P



TC-5879



## TEST REPORT

Ambuja Cement Limited  
Village Navagraon  
Tehsil Nalagarh distt Solan HP-174010

Customer Ref. Number	PO. No.2800983325/NE29, Dated 10 Feb 2024	Report No.	ETL/16092024/2623
Sample Code given by Customer	N.M	Report Date.	16.09.2024
Type of Sample	Ground Water	ULR No.	TC587924000003634F
Sampling Condition	Satisfactory	Sample Reg No.	ETL/W/10092024/2623
Quantity	5.00 LTR	Date of Sampling	09.09.2024
Sampling Location	Near Dispensary(Borewell No.1)	Date of Sample Receipt	10.09.2024
Sample Collected By	K.K Mishra & Team	Date of Test Performance	11.09.2024 - 16.09.2024
Sampling Procedure	As Per Lab SOP	Packing Mode	Plastic & Glass Bottle

Discipline: Chemical

Group: Residues and contaminants in water

Sample Description: Clear and Colourless Liquid

### PART C

S.No.	Parameters	Results	Limits of IS: 10500 - 2012		Test method
			Detection Limit (µg/l)	Acceptable Limit (µg/l)	
1	Alachlor (µg/l)	BDL	0.01	20	SOP NO. ETL/Pest/2022/01
2	Atrazine (µg/l)	BDL	0.01	2	SOP NO. ETL/Pest/2022/02
3	Aldrin/ Dieldrin (µg/l)	BDL	0.01	0.03	SOP NO. ETL/Pest/2022/01
4	Alpha HCH (µg/l)	BDL	0.01	0.01	SOP NO. ETL/Pest/2022/01
5	Beta HCH (µg/l)	BDL	0.01	0.04	SOP NO. ETL/Pest/2022/01
6	Butachlor (µg/l)	BDL	0.01	125	SOP NO. ETL/Pest/2022/01
7	Chlorpyrifos (µg/l)	BDL	0.01	30	SOP NO. ETL/Pest/2022/01
8	Delta HCH (µg/l)	BDL	0.01	0.04	SOP NO. ETL/Pest/2022/01
9	2,4- Dichlorophenoxyacetic acid (µg/l)	BDL	20	30	SOP NO. ETL/Pest/2022/01
10	DDT(α, p and p, p-Isomers of DDT,DDE and DDD) (µg/l)	BDL	0.2	1.0	SOP NO. ETL/Pest/2022/01
11	Endosulfan (Alpha, Beta, and sulphate) (µg/l)	BDL	0.2	0.4	SOP NO. ETL/Pest/2022/01
12	Ethion (µg/l)	BDL	2.0	3.0	SOP NO. ETL/Pest/2022/01
13	Gamma -HCH (Lindane) (µg/l)	BDL	0.01	2.0	SOP NO. ETL/Pest/2022/01
14	Isoproturon (µg/l)	BDL	5.0	9.0	SOP NO. ETL/Pest/2022/01
15	Malathion (µg/l)	BDL	100	190	SOP NO. ETL/Pest/2022/01
16	Methyl parathion (µg/l)	BDL	0.2	0.3	SOP NO. ETL/Pest/2022/01
17	Monocrotophos (µg/l)	BDL	0.5	1.0	SOP NO. ETL/Pest/2022/22
18	Phorate (µg/l)	BDL	1.0	2.0	SOP NO. ETL/Pest/2022/01



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GSTIN : 03BPEPS9693P1ZV, PAN No. BPEPS9693P



TC-5879



Ambuja Cement Limited  
Village Navagraon  
Tehsil Nalagarh distt Solan HP-174010

## TEST REPORT

Customer Ref. Number	PO. No.2800983325/NE29, Dated 10 Feb 2024	Report No.	ETL/16092024/2623
Sample Code given by Customer	N.M	Report Date.	16.09.2024
Type of Sample	Ground Water	ULR No.	TC587924000003634F
Sampling Condition	Satisfactory	Sample Reg No.	ETL/W/10092024/2623
Quantity	5.00 LTR	Date of Sampling	09.09.2024
Sampling Location	Near Dispensary (Borewell No.1)	Date of Sample Receipt	10.09.2024
Sample Collected By	K.K Mishra & Team	Date of Test Performance	11.09.2024 - 16.09.2024
Sampling Procedure	As Per Lab SOP	Packing Mode	Plastic & Glass Bottle

Discipline: Biological

Group: Water

Sample Description: Clear and Colourless Liquid

### PART D

S.No.	Parameters	Results	Requirement as per IS 10500:2012 (Amednment No. 04-Nov-2021)	Test method
1	E. coli	Not Detected	shall not be detectable in 100ml	IS 15185:2016
2	Total coliform	Not Detected	shall not be detectable in 100 ml	IS 15185:2016

\*\*END OF REPORT\*\*



  
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## TEST REPORT

Ambuja Cement Limited  
Village Navagraon  
Tehsil Nalagarh distt Solan HP-174010

Customer Ref. Number	PO. No.2800983325/NE29, Dated 10 Feb 2024	Report No.	ETL/16092024/2623
Sample Code given by Customer	N.M	Report Date.	16.09.2024
Type of Sample	Ground Water	ULR No.	N.A
Sampling Condition	Satisfactory	Sample Reg No.	ETL/W/10092024/2623
Quantity	5.00 LTR	Date of Sampling	09.09.2024
Sampling Location	Near Dispensary(Borewell No.1)	Date of Sample Receipt	10.09.2024
Sample Collected By	K.K Mishra & Team	Date of Test Performance	11.09.2024 - 16.09.2024
Sampling Procedure	As Per Lab SOP	Packing Mode	Plastic & Glass Bottle

Discipline: Chemical

Group: Residues and contaminants in water

Sample Description: Clear and Colourless Liquid

### PART B

S.No.	Parameters	Results	Limits of IS: 10500 - 2012		Test method
			Requirement (Acceptable limit)	Permissible limit in absence of alternate source	
1	Manganese (as Mn)	BDL	Max 0.1 mg/l	Max 0.3 mg/l	APHA 23rd Edition 2017-3111B
2	Copper (as Cu)	BDL	Max 0.05 mg/l	Max 1.5 mg/l	APHA 23rd Edition 2017-3111 B
3	Iron ( as Fe)	0.25	Max 1.0 mg/l	No relaxation	APHA 23rd Edition 3111B
4	Selenium (as Se)	BDL	Max 0.01 mg/l	No relaxation	APHA 23rd Edition 2017 3114B
5	Zinc (as Zn)	0.5	Max 5 mg/l	Max 15 mg/l	APHA 23rd Edition 2017-3111B
6	Cadmium (as Cd)	BDL	Max 0.003 mg/l	No relaxation	APHA 23rd Edition 2017-3111B
7	Cyanide as CN	BDL	Max 0.05 mg/l	No relaxation	APHA 23rd Edition:4500 E
8	Lead (as Pb)	BDL	Max 0.01 mg/l	No relaxation	APHA 23rd Edition 2017-3111B
9	Mercury (as Hg)	BDL	Max 0.001 mg/l	No relaxation	APHA 23rd Edition 2017 3114B
10	Nickel ( as Ni)	BDL	Max 0.02 mg/l	No relaxation	APHA 23rd Edition 2017-3111B
11	Arsenic (as As)	BDL	Max 0.01 mg/l	No relaxation	APHA 23rd Edition 2017-3114B
12	Total Chromium (as Cr)	BDL	Max 0.05 mg/l	No relaxation	APHA 23rd Edition 2017-3113B
13	Silver (as Ag)	BDL	Max 0.1mg/l	No relaxation	APHA 23rd Edition 2017-3114B



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## TEST REPORT

Ambuja Cement Limited  
Village Navagraon  
Tehsil Nalagarh distt Solan HP-174010

Customer Ref. Number	PO. No.2800983325/NE29, Dated 10 Feb 2024	Report No.	ETL/16092024/2623
Sample Code given by Customer	N.M	Report Date.	16.09.2024
Type of Sample	Ground Water	ULR No.	N.A
Sampling Condition	Satisfactory	Sample Reg No.	ETL/W/10092024/2623
Quantity	5.00 LTR	Date of Sampling	09.09.2024
Sampling Location	Near Dispensary(Borewell No.1)	Date of Sample Receipt	10.09.2024
Sample Collected By	K.K Mishra & Team	Date of Test Performance	11.09.2024 - 16.09.2024
Sampling Procedure	As Per Lab SOP	Packing Mode	Plastic Bottle & Glass Bottle

Discipline: Chemical

Group: Water

Sample Description: Clear and colourless liquid

### PART E

S. No.	Parameters	Results	Limits of IS: 10500 - 2012		Test method
			Requirement (Acceptable limit)	Permissible limit in absence of alternate source	
1	Anionic Detergents(as MBAS) mg/l, Max	Not Detected	0.2	1.0	Annex K of IS 13428
2	Barium (as Ba), mg/l, Max	Not Detected	0.7	No relaxation	Annex F of IS 13428
3	Mineral oil, mg/l, Max	Not Detected	1.0	No relaxation	Clause 6 of IS 3025, (Part 39) Infrared partition Method
4	Molybdenum (as Mo), mg/L, Max	Not Detected	0.07	No relaxation	IS 3025 (Part-2)
5	Polychlorinated biphenyl, mg/L, Max	Not Detected	0.0005	No relaxation	ASTM 5175
6	Polynuclear aromatic hydrocarbons (as PAH) mg/L, Max	Not Detected	0.0001	No relaxation	APHA 6440 or APHA 6630
7	Bromoform, mg/l, Max	Not Detected	0.1	No relaxation	APHA 6232
8	Dibromochloromethane, mg/l, Max	Not Detected	0.1	No relaxation	APHA 6232
9	Bromodichloromethane, mg/l, Max	Not Detected	0.06	No relaxation	APHA 6232
10	Chloroform mg/l, Max	Not Detected	0.2	No relaxation	APHA 6232



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GSTIN : 03BPEPS9693P1ZV, PAN No. BPEPS9693P



TC-5879



## TEST REPORT

Ambuja Cement Limited  
Village Navagraon  
Tehsil Nalagarh distt Solan HP-174010

Customer Ref. Number	PO. No.2800983325/NE29, Dated 10 Feb 2024	Report No.	ETL/16092024/2624
Sample Code given by Customer	N.M	Report Date.	16.09.2024
Type of Sample	Ground Water	ULR No.	TC587924000003635F
Sampling Condition	Satisfactory	Sample Reg No.	ETL/W/10092024/2624
Quantity	5.00 LTR	Date of Sampling	09.09.2024
Sampling Location	Weigh Bridge(Borewell No.2)	Date of Sample Receipt	10.09.2024
Sample Collected By	K.K Mishra & Team	Date of Test Performance	11.09.2024 - 16.09.2024
Sampling Procedure	As Per Lab SOP	Packing Mode	Plastic & Glass bottle

Discipline: Chemical

Group: Water

Sample Description: Satisfactory

### PART A

S.No.	Parameters	Results	Limits of IS: 10500 - 2012		Test method
			Requirement (Acceptable limit)	Permissible limit in absence of alternate source	
1	Colour (Hazen)	BDL (DL=05)	5	15	IS 3025(P-4) 2021; APHA 23rd Edition:2120B
2	Odour	agreeable	Agreeable	Agreeable	APHA 23rd Edition:2150 B
3	pH @ 25°C	7.27	6.5 - 8.5	No relaxation	IS 3025(P-11) 2022; APHA 23rd Edition:4500
4	Taste	agreeable	Agreeable	Agreeable	IS 3025(P-8) 2023
5	Turbidity	BDL	Max 1 NTU	Max 5 NTU	IS 3025 (P -10) 2023; APHA23rd Edition :2130B
6	Total Dissolved Solids (mg/l)	467	Max 500	Max 2000	IS 3025 (P-16) 2023; APHA 23rd Edition:2540 C
7	Ammonical Nitrogen as N (mg/l)	BDL	Max 0.5	No relaxation	IS 3025 (P-34) 1988; APHA 23rd Edition:4500-NH3 C
8	Calcium (as Ca) (mg/l)	72.1	Max 75	Max 200	IS 3025(P-40) 1991; APHA 23rd Edition 3500Ca B
9	Chloramines as Cl2 (mg/l)	BDL	Max 4	No relaxation	APHA 23rd Edition:4500 G
10	Chloride as Cl (mg/l)	17.5	Max 250	Max 1000	IS 3025(P-32) 1988; APHA 23rd Edition:4500 Cl B
11	Fluoride as F (mg/l)	0.25	Max 1.0	Max 1.5	APHA 23rd Edition:4500 F-D
12	Free Residual Chlorine (mg/l)	BDL	Max 0.2	Max 1	IS 3025 (P-26) 2021; APHA 23rd Edition :4500 Cl B
13	Magnesium (as Mg) (mg/l)	18.5	Max 30	Max 100	IS 3025 (Part-46) 2023; APHA23rd Edition :3500Mg B
14	Nitrate (as NO3) (mg/l)	17.2	Max 45	No relaxation	IS 3025 (P-34) 1988; APHA23rd Edition:4500 NO3 B



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GSTIN : 03BPEPS9693P1ZV, PAN No. BPEPS9693P



TC-5679



## TEST REPORT

Ambuja Cement Limited  
Village Navagraon  
Tehsil Nalagarh distt Solan HP-174010

15	Phenolic Compounds (as C <sub>6</sub> H <sub>5</sub> OH) (mg/l)	BDL (DL=0.001)	Max 0.001	Max 0.002	APHA 23rd Edition Chloroform Extraction Method, 5530 C
16	Sulphate (as SO <sub>4</sub> ) (mg/l)	11.3	Max 200	Max 400	IS 3025 (P-24) Sec 1:2022; APHA 23rd Edition :4500 SO42 E
17	Sulphide as S (mg/l)	BDL	Max 0.05	No relaxation	IS 3025(P-29) 2022; APHA 23rd Edition:4500 S F
18	Total Alkalinity (as CaCO <sub>3</sub> ) (mg/l)	372	Max 200	Max 600	IS 3025(P-23) 2023; APHA 23rd Edition:2320 B
19	Total Hardness(as CaCO <sub>3</sub> ) (mg/l)	256	Max 200	Max 600	IS 3025 (P-21) 2009; APHA 23rd Edition :2340 C
20	Boron as B (mg/l)	BDL (DL=0.1)	Max 0.5	Max 2.4	APHA 23rd Edition 4500B



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TC-5879



## TEST REPORT

Ambuja Cement Limited  
Village Navagraon  
Tehsil Nalagarh distt Solan HP-174010

Customer Ref. Number	PO. No.2800983325/NE29, Dated 10 Feb 2024	Report No.	ETL/16092024/2624
Sample Code given by Customer	N.M	Report Date.	16.09.2024
Type of Sample	Ground Water	ULR No.	TC587924000003635F
Sampling Condition	Satisfactory	Sample Reg No.	ETL/W/10092024/2624
Quantity	5.00 LTR	Date of Sampling	09.09.2024
Sampling Location	Weigh Bridge(Borewell No.2)	Date of Sample Receipt	10.09.2024
Sample Collected By	K.K Mishra & Team	Date of Test Performance	11.09.2024 - 16.09.2024
Sampling Procedure	As Per Lab SOP	Packing Mode	Plastic & Glass bottle

Discipline: Chemical

Group: Residues and contaminants in water

Sample Description: Satisfactory

### PART C

S.No.	Parameters	Results	Limits of IS: 10500 - 2012		Test method
			Detection Limit (µg/l)	Acceptable Limit (µg/l)	
1	Alachlor (µg/l)	BDL (DL=0.01)	0.01	20	SOP NO. ETL/Pest/2022/01
2	Atrazine (µg/l)	BDL (DL=0.01)	0.01	2	SOP NO. ETL/Pest/2022/02
3	Aldrin/ Dieldrin (µg/l)	BDL (DL=0.01)	0.01	0.03	SOP NO. ETL/Pest/2022/01
4	Alpha HCH (µg/l)	BDL (DL=0.01)	0.01	0.01	SOP NO. ETL/Pest/2022/01
5	Beta HCH (µg/l)	BDL (DL=0.01)	0.01	0.04	SOP NO. ETL/Pest/2022/01
6	Butachlor (µg/l)	BDL (DL=0.01)	0.01	125	SOP NO. ETL/Pest/2022/01
7	Chlorpyrifos (µg/l)	BDL (DL=0.01)	0.01	30	SOP NO. ETL/Pest/2022/01
8	Delta HCH (µg/l)	BDL (DL=0.01)	0.01	0.04	SOP NO. ETL/Pest/2022/01
9	2,4- Dichlorophenoxyacetic acid (µg/l)	BDL (DL=20)	20	30	SOP NO. ETL/Pest/2022/01
10	DDT(o, p and p, p-Isomers of DDT,DDE and DDD) (µg/l)	BDL (DL=0.2)	0.2	1.0	SOP NO. ETL/Pest/2022/01
11	Endosulfan (Alpha, Beta, and sulphate) (µg/l)	BDL (DL=0.2)	0.2	0.4	SOP NO. ETL/Pest/2022/01
12	Ethion (µg/l)	BDL (DL=2.0)	2.0	3.0	SOP NO. ETL/Pest/2022/01
13	Gamma -HCH (Lindane) (µg/l)	BDL (DL=0.01)	0.01	2.0	SOP NO. ETL/Pest/2022/01



(Authorized Signatory)  
Technical Manager-I  
Environ Tech Laboratories

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Page 3 of 5

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

CPCB Recognized under EPA, 1986; ISO 9001:2015; 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



TC-5879



## TEST REPORT

Ambuja Cement Limited  
Village Navagraon  
Tehsil Nalagarh distt Solan HP-174010

14	Isoproturon ( $\mu\text{g/l}$ )	BDL (DL=5.0)	5.0	9.0	SOP NO. ETL/Pest/2022/01
15	Malathion ( $\mu\text{g/l}$ )	BDL (DL=100)	100	190	SOP NO. ETL/Pest/2022/01
16	Methyl parathion ( $\mu\text{g/l}$ )	BDL (DL=0.2)	0.2	0.3	SOP NO. ETL/Pest/2022/01
17	Monocrotophos ( $\mu\text{g/l}$ )	BDL (DL=0.5)	0.5	1.0	SOP NO. ETL/Pest/2022/22
18	Phorate ( $\mu\text{g/l}$ )	BDL (DL=1.0)	1.0	2.0	SOP NO. ETL/Pest/2022/01



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Technical Manager-I  
Environ Tech Laboratories

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GSTIN : 03BPEPS9693P1ZV, PAN No. BPEPS9693P



TC-5879



## TEST REPORT

Ambuja Cement Limited  
Village Navagraon  
Tehsil Nalagarh distt Solan HP-174010

Customer Ref. Number	PO. No.2800983325/NE29, Dated 10 Feb 2024	Report No.	ETL/16092024/2624
Sample Code given by Customer	N.M	Report Date.	16.09.2024
Type of Sample	Ground Water	ULR No.	TC587924000003635F
Sampling Condition	Satisfactory	Sample Reg No.	ETL/W/10092024/2624
Quantity	5.00 LTR	Date of Sampling	09.09.2024
Sampling Location	Weigh Bridge(Borewell No.2)	Date of Sample Receipt	10.09.2024
Sample Collected By	K.K Mishra & Team	Date of Test Performance	11.09.2024 - 16.09.2024
Sampling Procedure	As Per Lab SOP	Packing Mode	Plastic & Glass bottle

Discipline: Biological

Sample Description: Satisfactory

Group: Water

### PART D

S.No.	Parameters	Results	Requirement as per IS 10500:2012 (Amednment No. 04-Nov-2021)	Test method
1	E. coli	Not Detected	shall not be detectable in 100ml	IS 15185:2016
2	Total coliform	Not Detected	shall not be detectable in 100 ml	IS 15185:2016

\*\*END OF REPORT\*\*



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Technical Manager-I  
Environ Tech Laboratories

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GSTIN : 03BPEPS9693P1ZV, PAN No. BPEPS9693P



## TEST REPORT

Ambuja Cement Limited  
Village Navagraon  
Tehsil Nalagarh distt Solan HP-174010

Customer Ref. Number	PO. No.2800983325/NE29, Dated 10 Feb 2024	Report No.	ETL/16092024/2624
Sample Code given by Customer	N.M	Report Date.	16.09.2024
Type of Sample	Ground Water	ULR No.	N.A
Sampling Condition	Satisfactory	Sample Reg No.	ETL/W/10092024/2624
Quantity	5.00 LTR	Date of Sampling	09.09.2024
Sampling Location	Weigh Bridge(Borewell No.2)	Date of Sample Receipt	10.09.2024
Sample Collected By	K.K Mishra & Team	Date of Test Performance	11.09.2024 - 16.09.2024
Sampling Procedure	As Per Lab SOP	Packing Mode	Plastic & Glass bottle

Discipline: Chemical

Group: Residues and contaminants in water

Sample Description: Satisfactory

### PART B

S.No.	Parameters	Results	Limits of IS: 10500 - 2012		Test method
			Requirement (Acceptable limit)	Permissible limit in absence of alternate source	
1	Manganese (as Mn)	BDL (DL=0.02)	Max 0.1 mg/l	Max 0.3 mg/l	APHA 23rd Edition 2017-3111B
2	Copper (as Cu)	BDL (DL=0.02)	Max 0.05 mg/l	Max 1.5 mg/l	APHA 23rd Edition 2017-3111 B
3	Iron ( as Fe)	0.12	Max 1.0 mg/l	No relaxation	APHA 23rd Edition 3111B
4	Selenium (as Se)	BDL (DL=0.001)	Max 0.01 mg/l	No relaxation	APHA 23rd Edition 2017 3114B
5	Zinc (as Zn)	0.16	Max 5 mg/l	Max 15 mg/l	APHA 23rd Edition 2017-3111B
6	Cadmium (as Cd)	BDL (DL=0.02)	Max 0.003 mg/l	No relaxation	APHA 23rd Edition 2017-3111B
7	Cyanide as CN	BDL	Max 0.05 mg/l	No relaxation	APHA 23rd Edition:4500 E
8	Lead (as Pb)	BDL (DL=0.01)	Max 0.01 mg/l	No relaxation	APHA 23rd Edition 2017-3111B
9	Mercury (as Hg)	BDL (DL=0.001)	Max 0.001 mg/l	No relaxation	APHA 23rd Edition 2017 3114B
10	Nickel ( as Ni)	0.04	Max 0.02 mg/l	No relaxation	APHA 23rd Edition 2017-3111B
11	Arsenic (as As)	BDL (DL=0.005)	Max 0.01 mg/l	No relaxation	APHA 23rd Edition 2017-3114B
12	Total Chromium (as Cr)	BDL	Max 0.05 mg/l	No relaxation	APHA 23rd Edition 2017-3113B
13	Silver (as Ag)	BDL (DL=0.05)	Max 0.1mg/l	No relaxation	APHA 23rd Edition 2017-3114B



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Environ Tech Laboratories

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GSTIN : 03BPEPS9693P1ZV, PAN No. BPEPS9693P



## TEST REPORT

Ambuja Cement Limited  
Village Navagraon  
Tehsil Nalagarh distt Solan HP-174010

Customer Ref. Number	PO. No.2800983325/NE29, Dated 10 Feb 2024	Report No.	ETL/16092024/2624
Sample Code given by Customer	N.M	Report Date.	16.09.2024
Type of Sample	Ground Water	ULR No.	N.A
Sampling Condition	Satisfactory	Sample Reg No.	ETL/W/10092024/2624
Quantity	5.00 LTR	Date of Sampling	09.09.2024
Sampling Location	Near Dispensary(Borewell No.2)	Date of Sample Receipt	10.09.2024
Sample Collected By	K.K Mishra & Team	Date of Test Performance	11.09.2024 - 16.09.2024
Sampling Procedure	As Per Lab SOP	Packing Mode	Plastic Bottle & Glass Bottle

Discipline: Chemical

Sample Description: Clear and colourless liquid

Group: Water

PART E					
S. No.	Parameters	Results	Limits of IS: 10500 - 2012		Test method
			Requirement (Acceptable limit)	Permissible limit in absence of alternate source	
1	Anionic Detergents(as MBAS) mg/l,Max	Not Detected	0.2	1.0	Annex K of IS 13428
2	Barium (as Ba), mg/l, Max	Not Detected	0.7	No relaxation	Annex F of IS 13428
3	Mineral oil, mg/l, Max	Not Detected	1.0	No relaxation	Clause 6 of IS 3025, (Part 39) Infrared partition Method
4	Molybdenum (as Mo), mg/L, Max	Not Detected	0.07	No relaxation	IS 3025 (Part-2)
5	Polychlorinated biphenyl, mg/L, Max	Not Detected	0.0005	No relaxation	ASTM 5175
6	Polynuclear aromatic hydrocarbons (as PAH) mg/L, Max	Not Detected	0.0001	No relaxation	APHA 6440 or APHA 6630
7	Bromoform, mg/l, Max	Not Detected	0.1	No relaxation	APHA 6232
8	Dibromochloromethane, mg/l, Max	Not Detected	0.1	No relaxation	APHA 6232
9	Bromodichloromethane, mg/l, Max	Not Detected	0.06	No relaxation	APHA 6232
10	Chloroform mg/l, Max	Not Detected	0.2	No relaxation	APHA 6232



(Authorized Signatory)  
Technical Manager-I  
Environ Tech Laboratories

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ULR NO: TC531224000002832F

Modern Test Center

(Accredited To ISO/IEC 17025:2017 through NABL)  
(Recognized by BIS vide OSL Code-5123116)

TC-5312



Berhampur

Off:-Gandhi Nagar 5<sup>th</sup> line Extn. East, Berhampur-760001, Dist-Ganjam (Odisha)

Lab:-Neelanchala Nagar 3<sup>rd</sup> lane, Berhampur-760010, Dist-Ganjam (Odisha), Phone:-0680 2403321-22

Visit us: [www.moderntestcenter.com](http://www.moderntestcenter.com)

Mail:- [moderntestcenter@gmail.com](mailto:moderntestcenter@gmail.com)

Ref:- 43230/MTC/LF/7.8/14/2024

DATE: 18/09/2024

### TEST CERTIFICATE

Issued to: Ambuja Cement Limited

Village: Navagraon, Tehsil: Nalagarh

LOCATION: BOREWELL NO.2

Dist: Solan

Himachal Pradesh, Pin: 174010.

Customer Reference No: Nil Dt.: 11/09/2024

Date of Initiation of Test : 18/09/2024

Date of Receipt: 18/09/2024

Date of Completion of Test: 18/09/2024

TEST CERTIFICATE NO: 2113 33021

DATE: 18/09/2024

TEST METHOD USED: IS 14194 PART- 1: 2023 & PART-2: 2022

### PART A: PARTICULARS OF INFORMATION SUBMITTED BY THE CUSTOMER

a) Name of the Sample	: Water Sample	d) Brand Name (if any)	: Not available
b) Batch No. and Date of Manufacture/Collection/Sampling	: Batch No: Not Specified Date: Not Specified	e) Parameters of the test suggested	: Beta Emitters & Alpha Emitters as per IS 10500:2012 (Amend 4) RA 2018
c) Quantity	: 1 x 1 lit Bottle	f) Any other information	: No Specific Observation

### PART B: SUPPLEMENTARY INFORMATIONS

a) Reference to sampling plan (By the lab/submitted by party) : Sample submitted by Environ Tech Laboratories, Punjab.

By Lab: i) Location

ii) Date & Time of collection

iii) Name of Lab Representative (Wherever applicable)

b) Supporting documents like graphs, tables, Sketches for the measurements taken and The results derived, if any to be attached

c) Deviation from the test methods as Prescribed in relevant ISS / Work Instructions, if any

d) Deviation from environmental condition, if any

: No deviation  
: No deviation

### PART C: TEST RESULTS

Sl. No	Parameter	Specified value maximum as per IS 10500:2012 (Amend 4) RA 2018	Result
1	Beta Emitters	1 Bq.l <sup>-1</sup>	BDL
2	Alpha Emitters	0.1 Bq.l <sup>-1</sup>	BDL

N.B:- BDL is below detection limit of the detector.

The DL for Beta Emitters is 0.194 Bq.l<sup>-1</sup>

The DL for Alpha Emitters is 0.009 Bq.l<sup>-1</sup>

### PART D: REMARKS

1) The results stated above relates to the sample tested only.

2) This report in full or in part shall not be published, advertised, used for any legal action unless prior permission has been secured from the competent Authority of the laboratory.

3) The sample shall be kept for three months after the test and can be returned on request on payment of transport charges or shall be destroyed. Any customer complaint or by regulatory authority shall be entertained, if and only if the complaint is registered within one month from date of report.

Modern Test Center

Chief Executive

Signature of CE with Seal

Name: Rajendra Kumar Mishra

Designation: Chief Executive

End of Report





ULR NO: TC531224000002831F

Modern Test Center

(Accredited To ISO/IEC 17025:2017 through NABL)  
(Recognized by BIS vide OSL Code-5123116)



Berhampur

TC-5312

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Lab:-Neelanchala Nagar 3<sup>rd</sup> lane, Berhampur-760010, Dist-Ganjam (Odisha), Phone:-0680 2403321-22

Visit us: [www.moderntestcenter.com](http://www.moderntestcenter.com)

Mail: [moderntestcenter@gmail.com](mailto:moderntestcenter@gmail.com)

Ref:- 43229/MTC/LF/7.8/14/2024

DATE: 18/09/2024

### TEST CERTIFICATE

Issued to: Ambuja Cement Limited

Village: Navagraon, Tehsil: Nalagarh

Dist: Solan

Himachal Pradesh, Pin: 174010.

LOCATION: BOREWELL NO.1

Customer Reference No: Nil Dt.: 11/09/2024

Date of Initiation of Test : 18/09/2024

Date of Receipt: 18/09/2024

Date of Completion of Test: 18/09/2024

TEST CERTIFICATE NO: 2113 33020

DATE: 18/09/2024

TEST METHOD USED: IS 14194 PART- 1: 2023 & PART-2: 2022

### PART A: PARTICULARS OF INFORMATION SUBMITTED BY THE CUSTOMER

a) Name of the Sample	: Water Sample	d) Brand Name (if any)	: Not available
b) Batch No. and Date of Manufacture/Collection/Sampling	: Batch No: Not Specified Date: Not Specified	e) Parameters of the test suggested	: Beta Emitters & Alpha Emitters as per IS 10500:2012 (Amend 4) RA 2018
c) Quantity	: 1 x 1 lit Bottle	f) Any other information	: No Specific Observation

### PART B: SUPPLEMENTARY INFORMATIONS

a) Reference to sampling plan (By the lab/submitted by party) : Sample submitted by Environ Tech Laboratories, Punjab.

By Lab: i) Location

ii) Date & Time of collection

iii) Name of Lab Representative (Wherever applicable)

b) Supporting documents like graphs, tables, Sketches for the measurements taken and The results derived, if any to be attached

c) Deviation from the test methods as

Prescribed in relevant ISS / Work

Instructions, if any

: No deviation

d) Deviation from environmental condition, if any

: No deviation

### PART C: TEST RESULTS

Sl. No	Parameter	Specified value maximum as per IS 10500:2012 (Amend 4) RA 2018	Result
1	Beta Emitters	1 Bq.l <sup>-1</sup>	BDL
2	Alpha Emitters	0.1 Bq.l <sup>-1</sup>	BDL

N.B:- BDL is below detection limit of the detector.

The DL for Beta Emitters is 0.119 Bq.l<sup>-1</sup>

The DL for Alpha Emitters is 0.019 Bq.l<sup>-1</sup>

### PART D: REMARKS

1) The results stated above relates to the sample tested only.

2) This report in full or in part shall not be published, advertised, used for any legal action unless prior permission has been secured from the competent Authority of the laboratory.

3) The sample shall be kept for three months after the test and can be returned on request on payment of transport charges or shall be destroyed. Any customer complaint or by regulatory authority shall be entertained, if and only if the complaint is registered within one month from date of report.

Modern Test Center

Chief Executive

Signature of CE with Seal

Name: Rajendra Kumar Mishra

Designation: Chief Executive

End of Report



## **Annexure G**

### **Treated Waste Water Test Reports**



# Environ Tech Laboratories

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GSTIN : 03BPEPS9693P1ZV, PAN No. BPEPS9693P



TC-5879

## TEST REPORT



Ambuja Cement Limited  
Village Navagraon  
Tehsil Nalagarh distt Solan HP-174010

Customer Ref. Number	PO. No.2800983325/NE29, Dated 10 Feb 2024	Report No.	ETL/16092024/2628
Sample Code given by Customer	N.M	Report Date.	16.09.2024
Type of Sample	Waste Water	ULR No.	TC587924000003639F
Sampling Condition	Satisfactory	Sample Reg No.	ETL/E/10092024/2628
Quantity	2.00 LTR	Date of Sampling	10.09.2024
Sampling Location	STP Outlet(Inside Factory)	Date of Sample Receipt	10.09.2024
Sample Collected By	K.K Mishra & Team	Date of Test Performance	11.09.2024 - 16.09.2024
Sampling Procedure	As Per Lab SOP	Packing Mode	Plastic & Glass bottle

Discipline: Chemical			Group: Pollution & Environment	
Sample Description: Clear and Colourless Liquid				
S.No.	Parameters	Results	STANDARDS (As per CPCB Rules)	Test method
1	pH@ 25°C	7.54	6.5-9.0	IS 3025(P-11) 2022; APHA 23rd Edition:4500-H B
2	Total Suspended Solids (mg/l)	05	Max 100	IS 3025(P-17) 2022; APHA 23rd Edition:2540 D
3	Total Dissolved Solids (mg/l)	444	--	IS 3025(P-16) 2023; APHA 23rd Edition:2540C
4	Bio chemical Oxygen Demand (3 days@27°C) (mg/l)	5.8	Max 30	IS 3025 (P-44) 2023; APHA 23rd Edition :5220 B
5	Chemical oxygen demand (mg/l)	19.6	--	IS 3025(P-58) 2023; APHA 23rd Edition:5220B
6	Oil and Grease (mg/l)	BDL	--	IS 3025(P-39) 2021; APHA 23rd Edition:5520 B

\*\*END OF REPORT\*\*



(Authorized Signatory)  
Technical Manager-I  
Environ Tech Laboratories

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Mob. 9464000081, 9417220081, 9417210081, (O) 94630-00081, 0172-4630081  
GSTIN : 03BPEPS9693P1ZV, PAN No. BPEPS9693P



TC-5879

## TEST REPORT



Ambuja Cement Limited  
Village Navagraon  
Tehsil Nalagarh distt Solan HP-174010

Customer Ref. Number	PO. No.2800983325/NE29, Dated 10 Feb 2024	Report No.	ETL/16092024/2627
Sample Code given by Customer	N.M	Report Date.	16.09.2024
Type of Sample	Waste Water	ULR No.	TC587924000003638F
Sampling Condition	Satisfactory	Sample Reg No.	ETL/E/10092024/2627
Quantity	2.00 LTR	Date of Sampling	10.09.2024
Sampling Location	STP Outlet(Outside STP Plant)	Date of Sample Receipt	10.09.2024
Sample Collected By	K.K Mishra & Team	Date of Test Performance	11.09.2024 - 16.09.2024
Sampling Procedure	As Per Lab SOP	Packing Mode	Plastic & Glass bottle

Discipline: Chemical Group: Pollution & Environment

Sample Description: Clear and Colourless liquid with few suspended particles

S.No.	Parameters	Results	STANDARDS (As per CPCB Rules)	Test method
1	pH@ 25°C	7.64	6.5-9.0	IS 3025(P-11) 2022; APHA 23rd Edition:4500-H B
2	Total Suspended Solids (mg/l)	22	Max 100	IS 3025(P-17) 2022; APHA 23rd Edition:2540 D
3	Total Dissolved Solids (mg/l)	460	--	IS 3025(P-16) 2023; APHA 23rd Edition:2540C
4	Bio chemical Oxygen Demand (3 days@27°C) (mg/l)	11.7	Max 30	IS 3025 (P-44) 2023; APHA 23rd Edition :5220 B
5	Chemical oxygen demand (mg/l)	39.2	--	IS 3025(P-58) 2023; APHA 23rd Edition:5220B
6	Oil and Grease (mg/l)	BDL	--	IS 3025(P-39) 2021; APHA 23rd Edition:5520 B

\*\*END OF REPORT\*\*



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Technical Manager-I  
Environ Tech Laboratories

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## **Annexure E**

### **Ambient Noise Monitoring Reports**





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Mob. 9464000081, 9417220081, 9417210081, (O) 94630-00081, 0172-4630081  
GSTIN : 03BPEPS9693P1ZV, PAN No. BPEPS9693P



TC-5879

## TEST REPORT



Ambuja Cement Limited  
Village Navagraon  
Tehsil Nalagarh distt Solan HP-174010

Customer Ref. Number	PO. No.2800983325/NE29, Dated 10 Feb 2024	Report No.	ETL/16092024/2630
Sample Code given by Customer	N.M	Report Date.	16.09.2024
Type of Sample	Work Zone Noise	UIR No.	TC587924000003641F
Sampling Condition	NA	Sample Reg No.	ETL/A/10092024/2630
Quantity	1.00 NOS	Date of Sampling	09.09.2024
Sampling Location	Near Admin Building	Date of Sample Receipt	10.09.2024
Sample Collected By	K.K Mishra & Team	Date of Test Performance	11.09.2024 - 16.09.2024
Sampling Procedure	As Per Lab SOP	Packing Mode	NA

Discipline: Chemical Group: Atmospheric Pollution  
Sample Description: Satisfactory

PART A				
S.No.	Parameters	Results	LIMIT	Test method
1	Noise Level (dB(A) Leq)	63.5	85	IS 9989:1981

\*\*END OF REPORT\*\*



Rameshwar Kumar  
(Authorized Signatory)  
Technical Manager-II  
Environ Tech Laboratories

Note: DL: Denotes Detection Limit  
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2. This report can neither be used as evidence in the court of law nor can it be used in part or full in any media without prior permission.  
3. The sample will be destroyed after thirty days from the date of issue of test report unless otherwise specified.

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GSTIN : 03BPEPS9693P1ZV, PAN No. BPEPS9693P



TC-5879

## TEST REPORT



Ambuja Cement Limited  
Village Navagraon  
Tehsil Nalagarh distt Solan HP-174010

Customer Ref. Number	PO. No.2800983325/NE29, Dated 10 Feb 2024	Report No.	ETL/16092024/2631
Sample Code given by Customer	N.M	Report Date.	16.09.2024
Type of Sample	Work Zone Noise	ULR No.	TC587924000003642F
Sampling Condition	NA	Sample Reg No.	ETL/A/10092024/2631
Quantity	1.00 NOS	Date of Sampling	09.09.2024
Sampling Location	Near STP On Road	Date of Sample Receipt	10.09.2024
Sample Collected By	K.K Mishra & Team	Date of Test Performance	11.09.2024 - 16.09.2024
Sampling Procedure	As Per Lab SOP	Packing Mode	NA

Discipline: Chemical				Group: Atmospheric Pollution	
Sample Description: Satisfactory					
PART A					
S.No.	Parameters	Results	LIMIT	Test method	
1	Noise Level (dB(A) Leq)	68.3	85	IS 9989:1981	

\*\*END OF REPORT\*\*



Rameshwar Kumar  
(Authorized Signatory)  
Technical Manager-II  
Environ Tech Laboratories

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GSTIN : 03BPEPS9693P1ZV, PAN No. BPEPS9693P



TC-5879

## TEST REPORT



Ambuja Cement Limited  
Village Navagraon  
Tehsil Nalagarh distt Solan HP-174010

Customer Ref. Number	PO. No.2800983325/NE29, Dated 10 Feb 2024	Report No.	ETL/16092024/2632
Sample Code given by Customer	N.M	Report Date.	16.09.2024
Type of Sample	Work Zone Noise	ULR No.	TC587924000003643F
Sampling Condition	NA	Sample Reg No.	ETL/A/10092024/2632
Quantity	1.00 NOS	Date of Sampling	09.09.2024
Sampling Location	Near Rain Water Harvesting	Date of Sample Receipt	10.09.2024
Sample Collected By	K.K Mishra & Team	Date of Test Performance	11.09.2024 - 16.09.2024
Sampling Procedure	As Per Lab SOP	Packing Mode	NA

Discipline: Chemical	Group: Atmospheric Pollution
Sample Description: Satisfactory	

PART A				
S.No.	Parameters	Results	LIMIT	Test method
1	Noise Level (dB(A) Leq)	68.7	85	IS 9989:1981

\*\*END OF REPORT\*\*



*Ramesh Kumar*  
(Authorized Signatory)  
Technical Manager-II  
Environ Tech Laboratories

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GSTIN : 03BPEPS9693P1ZV, PAN No. BPEPS9693P



TC-5879

## TEST REPORT



Ambuja Cement Limited  
Village Navagraon  
Tehsil Nalagarh distt Solan HP-174010

Customer Ref. Number	PO. No.2800983325/NE29, Dated 10 Feb 2024	Report No.	ETL/16092024/2633
Sample Code given by Customer	N.M	Report Date.	16.09.2024
Type of Sample	Work Zone Noise	ULR No.	TC587924000003644F
Sampling Condition	NA	Sample Reg No.	ETL/A/10092024/2633
Quantity	1.00 NOS	Date of Sampling	09.09.2024
Sampling Location	Near Material Gate	Date of Sample Receipt	10.09.2024
Sample Collected By	K.K Mishra & Team	Date of Test Performance	11.09.2024 - 16.09.2024
Sampling Procedure	As Per Lab SOP	Packing Mode	NA

Discipline: Chemical Group: Atmospheric Pollution

Sample Description: Satisfactory

PART A				
S.No.	Parameters	Results	LIMIT	Test method
I	Noise Level (dB(A) Leq)	71.4	85	IS 9989:1981

\*\*END OF REPORT\*\*



*Rameshwar Kumar*  
(Authorized Signatory)  
Technical Manager-II  
Environ Tech Laboratories

**Note:**

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GSTIN : 03BPEPS9693P1ZV, PAN No. BPEPS9693P



## TEST REPORT



Ambuja Cement Limited  
Village Navagraon  
Tehsil Nalagarh distt Solan HP-174010

Customer Ref. Number	PO. No.2800983325/NE29, Dated 10 Feb 2024	Report No.	ETL/16092024/2634
Sample Code given by Customer	N.M	Report Date.	16.09.2024
Type of Sample	Work Zone Noise	ULR No.	TC587924000003645F
Sampling Condition	NA	Sample Reg No.	ETL/A/10092024/2634
Quantity	1.00 NOS	Date of Sampling	09.09.2024
Sampling Location	Near Weigh Bridge	Date of Sample Receipt	10.09.2024
Sample Collected By	K.K Mishra & Team	Date of Test Performance	11.09.2024 - 16.09.2024
Sampling Procedure	As Per Lab SOP	Packing Mode	NA

Discipline: Chemical	Group: Atmospheric Pollution
Sample Description: Satisfactory	

PART A				
S.No.	Parameters	Results	LIMIT	Test method
1	Noise Level (dB(A) Leq)	75.9	85	IS 9989:1981

\*\*END OF REPORT\*\*



*Rameshwar Kumar*  
(Authorized Signatory)  
Technical Manager-II  
Environ Tech Laboratories

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GSTIN : 03BPEPS9693P1ZV, PAN No. BPEPS9693P



TC-5879

## TEST REPORT



Ambuja Cement Limited  
Village Navagraon  
Tehsil Nalagarh distt Solan HP-174010

Customer Ref. Number	PO. No.2800983325/NE29, Dated 10 Feb 2024	Report No.	ETL/16092024/2635
Sample Code given by Customer	N.M	Report Date.	16.09.2024
Type of Sample	Work Zone Noise	ULR No.	TC587924000003646F
Sampling Condition	NA	Sample Reg No.	ETL/A/11092024/2635
Quantity	1.00 NOS	Date of Sampling	10.09.2024
Sampling Location	Near Scrap Yard	Date of Sample Receipt	11.09.2024
Sample Collected By	K.K Mishra & Team	Date of Test Performance	11.09.2024 - 16.09.2024
Sampling Procedure	As Per Lab SOP	Packing Mode	NA

Discipline: Chemical	Group: Atmospheric Pollution
Sample Description: Satisfactory	

PART A				
S.No.	Parameters	Results	LIMIT	Test method
1	Noise Level (dB(A) Leq)	77.2	85	IS 9989:1981

\*\*END OF REPORT\*\*



*Rameshwar Kumar*  
(Authorized Signatory)  
Technical Manager-II  
Environ Tech Laboratories

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TC-5879

## TEST REPORT



Ambuja Cement Limited  
Village Navagraon  
Tehsil Nalagarh distt Solan HP-174010

Customer Ref. Number	PO. No.2800983325/NE29, Dated 10 Feb 2024	Report No.	ETL/16092024/2636
Sample Code given by Customer	N.M	Report Date.	16.09.2024
Type of Sample	Work Zone Noise	ULR No.	TC587924000003647F
Sampling Condition	NA	Sample Reg No.	ETL/A/11092024/2636
Quantity	1.00 NOS	Date of Sampling	10.09.2024
Sampling Location	Near MPSS Building	Date of Sample Receipt	11.09.2024
Sample Collected By	K.K Mishra & Team	Date of Test Performance	11.09.2024 - 16.09.2024
Sampling Procedure	As Per Lab SOP	Packing Mode	NA

Discipline: Chemical Group: Atmospheric Pollution  
Sample Description: Satisfactory

PART A				
S.No.	Parameters	Results	LIMIT	Test method
1	Noise Level (dB(A) Leq)	62.7	85	IS 9989:1981

\*\*END OF REPORT\*\*



Rameshwar Kumar  
(Authorized Signatory)  
Technical Manager-II  
Environ Tech Laboratories

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GSTIN : 03BPEPS9693P1ZV, PAN No. BPEPS9693P



TC-5879

## TEST REPORT



Ambuja Cement Limited  
Village Navagraon  
Tehsil Nalagarh distt Solan HP-174010

Customer Ref. Number	PO. No.2800983325/NE29, Dated 10 Feb 2024	Report No.	ETL/16092024/2637
Sample Code given by Customer	N.M	Report Date.	16.09.2024
Type of Sample	Work Zone Noise	ULR No.	TC587924000003648F
Sampling Condition	NA	Sample Reg No.	ETL/A/11092024/2637
Quantity	1.00 NOS	Date of Sampling	10.09.2024
Sampling Location	In Front of DO	Date of Sample Receipt	11.09.2024
Sample Collected By	K.K Mishra & Team	Date of Test Performance	11.09.2024 - 16.09.2024
Sampling Procedure	As Per Lab SOP	Packing Mode	NA

Discipline: Chemical Group: Atmospheric Pollution

Sample Description: Satisfactory

PART A				
S.No.	Parameters	Results	LIMIT	Test method
1	Noise Level Day (dB(A) Leq)	66.4	85	IS 9989:1981

\*\*END OF REPORT\*\*



*Rameshwar Kumar*  
(Authorized Signatory)  
Technical Manager-II  
Environ Tech Laboratories

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GSTIN : 03BPEPS9693P1ZV, PAN No. BPEPS9693P



TC-5879

## TEST REPORT



Ambuja Cement Limited  
Village Navagraon  
Tehsil Nalagarh distt Solan HP-174010

Customer Ref. Number	PO. No.2800983325/NE29, Dated 10 Feb 2024	Report No.	ETL/16092024/2638
Sample Code given by Customer	N.M	Report Date.	16.09.2024
Type of Sample	Work Zone Noise	ULR No.	TC587924000003649F
Sampling Condition	NA	Sample Reg No.	ETL/A/11092024/2638
Quantity	1.00 NOS	Date of Sampling	10.09.2024
Sampling Location	Near Store Building	Date of Sample Receipt	11.09.2024
Sample Collected By	K.K Mishra & Team	Date of Test Performance	11.09.2024 - 16.09.2024
Sampling Procedure	As Per Lab SOP	Packing Mode	NA

Discipline: Chemical	Group: Atmospheric Pollution
Sample Description: Satisfactory	

PART A				
S.No.	Parameters	Results	LIMIT	Test method
1	Noise Level (dB(A) Leq)	68.9	85	IS 9989:1981

\*\*END OF REPORT\*\*



Rameshwar Kumar  
(Authorized Signatory)  
Technical Manager-II  
Environ Tech Laboratories

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GSTIN : 03BPEPS9693P1ZV, PAN No. BPEPS9693P



TC-5879

## TEST REPORT



Ambuja Cement Limited  
Village Navagraon  
Tehsil Nalagarh distt Solan HP-174010

Customer Ref. Number	PO. No.2800983325/NE29, Dated 10 Feb 2024	Report No.	ETL/16092024/2639
Sample Code given by Customer	N.M	Report Date.	16.09.2024
Type of Sample	Work Zone Noise	ULR No.	TC587924000003650F
Sampling Condition	NA	Sample Reg No.	ETL/A/11092024/2639
Quantity	1.00 NOS	Date of Sampling	10.09.2024
Sampling Location	Near Borewell/Dispensary	Date of Sample Receipt	11.09.2024
Sample Collected By	K.K Mishra & Team	Date of Test Performance	11.09.2024 - 16.09.2024
Sampling Procedure	As Per Lab SOP	Packing Mode	NA

Discipline: Chemical Group: Atmospheric Pollution  
Sample Description: Satisfactory

PART A				
S.No.	Parameters	Results	LIMIT	Test method
1	Noise Level (dB(A) Leq)	65.8	85	IS 9989:1981

\*\*END OF REPORT\*\*



Rameshwar Kumar  
(Authorized Signatory)  
Technical Manager-II  
Environ Tech Laboratories

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