

# Ambuja Cement

Ref: ACL/NL/EMD/11-2019/27

11<sup>th</sup> November 2019

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

**Kind Attn: Dr. Bhardwaj Adiraju**

**Sub: Half Yearly compliance of conditions of Environmental Clearance.**

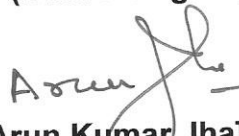
Dear Sir,

This has reference to the Environmental Clearance granted to our plant by MoEFCC vide letter no. J-11011/173/2008-IA II (I) dated August 22, 2008. We are sending a point-wise status report from April 2019 to September 2019 on compliance of the stipulated environmental conditions/safeguards of Environmental clearance letter referred above along with Cement Production from April 2019 to September 2019 as Annexure - 8 through e-mail address: [moef.ddn@gov.in](mailto:moef.ddn@gov.in). With a request to kindly acknowledge the receipt through return mail.

Hope you will find the information in order.

Thanking you.

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

  
[Arun Kumar Jha]  
Sr. Vice President

Encl: As above

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

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

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

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

Village Navagraon, P. O. Jajhra, Teh. Nalagarh, Distt. Solan - 174 101 (H.P.)  
Tel.: 01795-662701, Fax: 01795-662702, Website: [www.ambujacement.com](http://www.ambujacement.com)  
Regd.Off. : P.O. Ambuja Nagar, Taluka-Kodinar, Distt. Gir Somnath, Gujarat-362715  
CIN: L26942GJ1981PLC004717

# Ambuja Cement

## Compliance of Conditions of Environment Clearance

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

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

Period of Compliance: April 2019 to September 2019

Sl. No.	Condition	Compliance Status
i	The particulate matter emissions from various sources shall not exceed 50 mg/Nm <sup>3</sup> . The fugitive emissions during loading and unloading shall be suitably controlled. Bag house/ filters shall be provided to control air emissions to achieve the prescribed standards.	To achieve the prescribed standards of Ambient air and Stack emissions, 27 Nos. of Bag filters and one main Bag House have been installed. Stack emissions are maintained well below the prescribed limit of 30mg/Nm <sup>3</sup> . Stack emission monitoring was conducted by NABL accredited lab on 29 <sup>th</sup> August and 9 <sup>th</sup> September 2019. The results are in the range of 8.0 mg/Nm <sup>3</sup> to 13.1 mg/Nm <sup>3</sup> . Reports enclosed as <b>Annexure – 1</b>
ii	The locations of ambient air quality monitoring stations shall be set up as per statutory requirement in consultation with the Himachal Pradesh Pollution Control Board (HPPCB) and additional stations shall be installed, if required, in the downwind direction as well as where maximum ground level concentrations are anticipated.	Six Ambient Air quality monitoring stations have been fixed and the report is submitted to State Pollution Control Board on monthly basis. Ambient Air quality monitoring is done on regular basis at all six locations. Ambient Air Quality Monitoring was conducted by NABL accredited lab for all the six stations on 28 <sup>th</sup> and 29 <sup>th</sup> August 2019 and the results are found to be varying from 72 ug/m <sup>3</sup> to 89 ug/m <sup>3</sup> for PM <sub>10</sub> and 30 ug/m <sup>3</sup> to 40 ug/m <sup>3</sup> for PM <sub>2.5</sub> . All other parameters are also within the prescribed limits. Reports enclosed as <b>Annexure - 2</b>
iii	The company shall obtain permission for drawl of 400 m <sup>3</sup> /day ground water from the Central Ground Water Authority/ Central Ground Water Board and copy of the same shall be submitted to the ministry and its Regional Office at Chandigarh within three	Required permission hds been obtained and a copy of permission letter was submitted to the Regional office of MoEF, at Chandigarh vides our letter dated 22 <sup>nd</sup> June 2010. Presently the withdrawal sources



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CIN: L26942GJ1981PLC004717

	months from the date of issue of this letter.	are registered with HP Ground Water Authority and required permission of Water withdrawal has been obtained.
iv	Green belt shall be developed at least in 33% of plant area to mitigate the effect of fugitive emissions all around the plant as per the guidelines of Central Pollution Control Board.	Provision has been kept for development of Green Belt. We have planted 7298 Trees and 36258 Shrubs up to September 2019. Total green cover is more than 33% of the plant area. Detail of plantation up to September 2019 enclosed as <b>Annexure – 3</b>
v	The project authorities shall transport the raw materials and cement in covered means to avoid fugitive emission during transport.	All the raw materials and Cement are transported in covered trucks to avoid fugitive emission during transportation.
vi	No clinker manufacturing facility shall be installed by the company	Clinker manufacturing facility has not been installed.
vii	All the recommendations mentioned in the CREP guidelines for the cement plants shall be followed and complied.	All the recommendations mentioned in CREP guidelines for Cement plants are followed and complied. Compliance status enclosed as <b>Annexure – 4</b>
	<b>GENERAL CONDITIONS</b>	
i	The project authorities shall strictly adhere to the stipulations of the SPCB/ state government or any other statutory body.	All stipulations of SPCB/ State Government and other statutory bodies are being complied and shall be taken care in future also.
ii	All other necessary statutory clearances from the concerned Departments including "No Objection Certificate" from the Himachal Pradesh Pollution Control Board (HPPCB) shall be obtained prior to commencement of construction and/ or operation.	No Objection Certificate was obtained from HPPCB vides letter no. PCB(1114) Ambuja Cement Navagraon/6-13867-73 dated 27/09/2008. All other Statutory Clearances like single window clearance consent under Air and Water Acts have also been obtained. Latest consent is valid upto 31.03.2020
iii	No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment and Forests. In case of deviations or alterations in the project proposal from those submitted to this Ministry for clearance, a fresh reference shall be made to the Ministry to assess the adequacy of conditions imposed and to add additional environmental	Any expansion or modifications in the plant shall be carried out only after obtaining prior approval of the Ministry of Environment, Forest and Climate Change.

*As per*

# Ambuja Cement

	protection measures required, if any.	
iv	At no time, the emissions shall exceed the prescribed limits. In the event of failure of any pollution control system adopted by the unit, the unit shall be immediately put out of operation and shall not be restarted until the desired efficiency has been achieved.	Process interlocking system has been provided which shall automatically trip off the mill in case of failure of pollution control system.
v	The gaseous emissions (So <sub>2</sub> , No <sub>x</sub> ) and particulate matter along with RSPM levels from various process units shall conform to the standards prescribed by the concerned authorities from time to time.	Gaseous emission (So <sub>2</sub> and No <sub>x</sub> ) is not applicable in case of stack emissions in grinding unit where we are monitoring Particulate matter only but in case of Ambient air quality they are being monitored. All the values are within the prescribed norms.
vi	The company shall undertake following Waste Minimization measures:	
	Reuse of by-products from the process as raw materials or as raw material substitutes in other processes.	No by-product being generated from process.
	Use of "Close pneumatic" system for transport of fine material.	All fine materials are transported in closed systems to avoid any leakage/spillage.
	All venting systems shall be connected with dust arresting equipments.	All the material transfer points and venting systems are equipped with Bag Filters.
	Dust collect in pollution control equipments shall be reused.	Dust collected in pollution control equipment is automatically recycled in the respective process.
vii	Fugitive emissions in the work zone environment, product and raw materials storage area shall be regularly monitored. The emissions shall conform to the limits imposed by the State Pollution Control Boards/Central Pollution Control Board.	Fugitive emissions in work zone environment, product and raw materials storage area is regularly monitored and are conforming to the prescribed norms. Last monitoring conducted by NABL accredited lab on 09.09.2019. The results found in the range of 1362 ug/m <sup>3</sup> at material gate to 2875 ug/m <sup>3</sup> in Cement loading area. All the results found to be within the prescribed norms. Reports enclosed as <b>Annexure - 5</b>
viii	The overall noise levels in all around the plant area shall be kept well within the standards by providing noise control measures including acoustic hoods, silencers, enclosures etc. on all sources of noise generation. The ambient noise levels shall conform to the standards prescribed	All possible noise control measures have been taken. Ambient Noise is regularly monitored. Last monitoring conducted by NABL accredited lab on 09.09.2019. The results were in the range of 49.3 dB(A) to 61.2 dB(A) during day time



	under Environment (Protection) Act, 1986 Rules, 1989 viz. 75 dBA (day time) and 70 dBA (night time).	and 38.8 dB(A) to 43.6 dB(A) during night time which are well within the prescribed norms. The reports are enclosed as <b>Annexure - 6</b>
ix	The company shall develop rain water harvesting structures to harvest the runoff water for recharge of ground water.	Three rain water harvesting structures with proper drainage system have been made for collection of rain water to recharge the ground water. Based on our own measurements, this unit was approximately 3.2 times water positive in 2018. In 2019 also we are more than 5 time water positive till date.
x	Occupational health and safety measures shall be undertaken. Periodic monitorial for exposure to dust on the workers should be conducted and records maintained including health records of the workers. The company shall engage a doctor who is trained in occupational health.	Occupational Health & Safety is given the top most priority in our company. An occupational health centre has been set up. Regular medical checkup has been conducted for the workers as well as employees on annual basis and keeping proper records. Last health check up was done in April and May 2019. Reports of 2 employees (as a sample) enclosed as Last monitoring conducted by NABL accredited lab on 09.09.2019. All the results found to be within the prescribed norms. The reports are enclosed as <b>Annexure - 7</b> . The company has set up a separate H&S Department that ensures strict adherence to all safety norms.
xi	The company shall undertake eco-developmental measures including community welfare measures in the project area for the overall improvement of the environment. The eco-development plan should be submitted to the SPCB within three months of receipt of this letter for approval.	Ambuja Cement Foundation (a Non-Governmental Organization) has been set up by the company for looking after Eco-developmental and community welfare measures in the project area and is working since the inception of the project. Total expenditure incurred on CSR activities in 2018-19 was Rs.1.20 Crores
xii	A separate Environmental Management Cell equipped with full fledged laboratory facilities shall be set up to carry out the Environmental Management and Monitoring	To look after the environmental management and monitoring, the company has set up a separate Environmental Management Cell

*Arjun*

# Ambuja Cement

	functions.	with full-fledged laboratory.
xiii	The project authorities shall earmark Rs. 2.20 Crores to implement the conditions stipulated by the Ministry of Environment and Forests as well as the State Government. An implementation schedule for all the conditions stipulated herein shall be submitted to the Ministry's Regional Office. The funds so provided shall not be diverted for any other purpose.	Though a sum of Rs.2.20 Crores was earmarked to implement the conditions stipulated by the Ministry of Environment and Forests as well as the State Government, Initially we had spent approximately 41 Crores on Environment Protection measures and other related activities. We have spent Rs. 2628365/- from April 2019 to September 2019 for Environment Protection and other related activities.
xiv	The implementation of the project vis-à-vis environmental action plans shall be monitored by the concerned Regional Office of the Ministry/SPCB/CPCB. A six monthly compliance status report shall be submitted to monitoring agencies and shall be posted on the website of the Company.	Six monthly compliance reports are being submitted regularly. Last report October 2018 to March 2019 was submitted vide our office letter No: ACL(Nlg)/EMD/2019/05-04 dated 7 <sup>th</sup> May 2019 through e-mail <a href="mailto:moef.ddn@gov.in">moef.ddn@gov.in</a> on 9 <sup>th</sup> May 2019 The same has also been posted on company website.
xv	The project proponent shall inform the public that the project has been accorded environmental clearance by the Ministry and copies of the clearance letter are available with the SPCB and may also be seen at Website of the Ministry at <a href="http://envfor.nic.in">http://envfor.nic.in</a> . This shall be advertised within seven days from the date of issue of the clearance letter, at least in two local newspapers that are widely circulated in the region of which one should be in the Vernacular language of the locality and a copy of the same shall be forwarded to the concerned Regional Office of the Ministry.	The condition has been complied with. The same had been advertised in two local news papers (The Tribune and Dainik Bhaskar) dated 29 <sup>th</sup> August 2008 in Hindi and the same had been forwarded to Regional Office of the Ministry, Chandigarh vide our letter dated 9 <sup>th</sup> September 2008.
xvi	The project authorities shall inform the Regional Office as well as the Ministry, the date of financial closure and final approval of the project by the concerned authorities and the date of start of project.	The project was approved by the state govt. on March 11, 2008; EC granted by MoEF on August 22, 2008. The project activities were formally started in January, 2009. Consent to Operate was issued by State Pollution Control Board on March 23, 2010 and production started on March 27, 2010.



# Idma Laboratories Limited

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Annexure - 1

## TEST REPORT

Ref. No. IL/D- 5286	Date 4.9.19	Lab No. 310819L-ED-013	Page No. 1/1
Customer	Ambuja Cements Limited Unit: Nalagarh, Vill- Navagraon P.O. Jajhra, Teh: Nalagarh Distt: Solan Himachal Pradesh		
Type of Sample	Stack Emission (VRM Stack)		
Customer's Description of Sample	Stack Emission (VRM Stack)		
Quantity	1 No.		
Packing, Markings	Thimble Packed in Polythene Pouch.		
Mode of Collection of Sample	Sampling by Laboratories		
Work Order No.	2800713676/NE29	Dated	25/06/2018
Date of Receipt of Sample	31/08/2019		
Period of Analysis	31/08/2019 To 04/09/2019		
Sampling Team Idma	Mr. Shakti Singh & Team	Client	Mr. Durga Singh
Sampling Location	VRM Stack ( Loesche)		
Visual Observation	N/A		
Date of Sampling	29/08/2019		
Date of Reporting	04/09/2019		
Sampling Protocol	CPCB		
Testing Protocol	CPCB		

## RESULTS

S.No.	Test Parameter	Units	Results	Specifications	Test Method
	CHEMICAL DISCIPLINE (Atmospheric Pollution)	-	-		
	GENERAL INFORMATIONS:	-	-		
1	Stack Height	Meters	54	-	-
2	Stack dia	Meters	1.7	-	-
3	Ambient Temperature	°C	36	-	-
4	Stack Temperature	°C	90	-	-
5	Velocity	m/s	9.77	-	-
6	Type of Fuel	-	Electricity	-	-
7	Control Device APCD	-	Bag Filter	-	-
8	Sampling Flow rate	LPM	16	-	-
9	Sampling Time	Minutes	40	-	-
10	Volumetric Flow rate	Nm <sup>3</sup> /hr	79793	-	-
	PARAMETERS:				
11	PM	mg /Nm <sup>3</sup>	8	30	IS:11255(P-1)-1985 (RA 2014)

\*\*End of Report\*\*



For Idma Laboratories Limited

Authorized Signatory



Idma Corporate Park, 391, Industrial Area, Phase-I, Panchkula, Haryana.

Tel. No. : 0172- 5064827, 5064830

Website : www.idmagroup.co.in E-mail : testing@idmagroup.co.in

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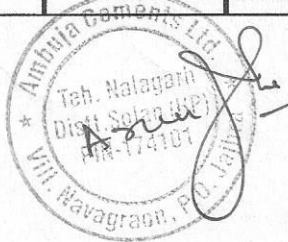
## TEST REPORT

Ref. No. IL/D- 5556	Date 13/09/19	Lab No. 110919L-ED-022	Page No. 1/1
Customer	Ambuja Cements Limited Unit: Nalagarh, Vill- Navagraon P.O. Jajhra, Teh: Nalagarh Distt: Solan Himachal Pradesh		
Type of Sample	Stack Emission		
Customer's Description of Sample	Stack Emission		
Quantity	1 No.		
Packing, Markings	Thimble Packed in Polythene Pouch.		
Mode of Collection of Sample	Sampling by Laboratories		
Work Order No.	2800769094/NE29	Dated	29/08/2019
Date of Receipt of Sample	11/09/2019		
Period of Analysis	11/09/2019 To 12/09/2019		
Sampling Team Idma	Mr. Shakti Singh & Team	Client	Mr. Durga Singh
Sampling Location	Clinker Tippler Bag filter Stack -I		
Visual Observation	N/A		
Date of Sampling	09/09/2019		
Date of Reporting	12/09/2019		
Sampling Protocol	CPCB		
Testing Protocol	CPCB		

## RESULTS

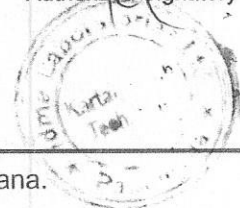
S.No.	Test Parameter	Units	Results	Specifications	Test Method
	CHEMICAL DISCIPLINE (Atmospheric Pollution)	-	-	-	-
	GENERAL INFORMATION:	-	-	-	-
1	Stack Height	Meters	32	-	-
2	Stack dia	Meters	1.0	-	-
3	Ambient Temperature	°C	36	-	-
4	Stack Temperature	°C	40	-	-
5	Velocity	m/s	12.6	-	-
6	Type of Fuel	-	Electricity	-	-
7	Sampling Flow rate	LPM	24	-	-
8	Sampling Time	Minutes	30	-	-
9	Volumetric Flow rate	Nm <sup>3</sup> /hr	35607	-	-
	PARAMETERS:	-	-	-	-
10	PM	mg /Nm <sup>3</sup>	11.3	Max. 30	IS:11255(P-1)-1985 (RA 2014)

\*\*End of Report\*\*



For Idma Laboratories Limited

Authorized Signatory



Idma Corporate Park, 391, Industrial Area, Phase-I, Panchkula, Haryana.

Tel. No. : 0172- 5064827, 5064830

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## TEST REPORT

Ref. No. IL/D- <b>5557</b>	Date <b>13-09-19</b>	Lab No. <b>110919L-ED-023</b>	Page No. <b>1/1</b>
Customer	Ambuja Cements Limited Unit: Nalagarh, Vill- Navagraon P.O. Jajhra, Teh: Nalagarh Distt: Solan Himachal Pradesh		
Type of Sample	Stack Emission		
Customer's Description of Sample	Stack Emission		
Quantity	1 No.		
Packing, Markings	Thimble Packed in Polythene Pouch.		
Mode of Collection of Sample	Sampling by Laboratories		
Work Order No.	2800769094/NE29	Dated	29/08/2019
Date of Receipt of Sample	11/09/2019		
Period of Analysis	11/09/2019 To 12/09/2019		
Sampling Team Idma	Mr. Shakti Singh & Team	Client	Mr. Durga Singh
Sampling Location	Clinker Tippler Bag filter Stack -III		
Visual Observation	N/A		
Date of Sampling	09/09/2019		
Date of Reporting	12/09/2019		
Sampling Protocol	CPCB		
Testing Protocol	CPCB		

## RESULTS

S.No.	Test Parameter	Units	Results	Specifications	Test Method
	CHEMICAL DISCIPLINE (Atmospheric Pollution)	-	-	-	-
	GENERAL INFORMATIONS:	-	-	-	-
1	Stack Height	Meters	32	-	-
2	Stack dia	Meters	1	-	-
3	Ambient Temperature	°C	36	-	-
4	Stack Temperature	°C	41	-	-
5	Velocity	m/s	12.4	-	-
6	Type of Fuel	-	Electricity	-	-
7	Sampling Flow rate	LPM	23	-	-
8	Sampling Time	Minutes	30	-	-
9	Volumetric Flow rate	Nm <sup>3</sup> /hr	35042	-	-
	PARAMETERS:	-	-	-	-
10	PM	mg /Nm <sup>3</sup>	12.8	Max. 30	IS:11255(P-1)-1985 (RA 2014)

\*\*End of Report\*\*



For Idma Laboratories Limited

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## TEST REPORT

Ref. No. IL/D-5558	Date	13.09.19	Lab No.	110919L-ED-024	Page No. 1/1
Customer	Ambuja Cements Limited Unit: Nalagarh, Vill- Navagraon P.O. Jajhra, Teh: Nalagarh Distt: Solan Himachal Pradesh				
Type of Sample	Stack Emission				
Customer's Description of Sample	Stack Emission				
Quantity	1 No.				
Packing, Markings	Thimble Packed in Polythene Pouch.				
Mode of Collection of Sample	Sampling by Laboratories				
Work Order No.	2800769094/NE29	Dated	29/08/2019		
Date of Receipt of Sample	11/09/2019				
Period of Analysis	11/09/2019 To 12/09/2019				
Sampling Team Idma	Mr. Shakti Singh & Team	Client	Mr. Durga Singh		
Sampling Location	Packing Plant Bag filter Stack -I				
Visual Observation	N/A				
Date of Sampling	09/09/2019				
Date of Reporting	12/09/2019				
Sampling Protocol	CPCB				
Testing Protocol	CPCB				

## RESULTS

S.No.	Test Parameter	Units	Results	Specifications	Test Method
	CHEMICAL DISCIPLINE (Atmospheric Pollution)	-	-	-	-
	GENERAL INFORMATIONS:	-	-	-	-
1	Stack Height	Meters	31.6	-	-
2	Stack dia	Meters	1	-	-
3	Ambient Temperature	°C	38	-	-
4	Stack Temperature	°C	41	-	-
5	Velocity	m/s	15.68	-	-
6	Type of Fuel	-	Electricity	-	-
7	Sampling Flow rate	LPM	20	-	-
8	Sampling Time	Minutes	30	-	-
9	Volumetric Flow rate	Nm³/hr	44311	-	-
	PARAMETERS:	-	-	-	-
10	PM	mg/Nm³	11.6	Max. 30	IS:11255(P-1)-1985 (RA 2014)

\*\*End of Report\*\*



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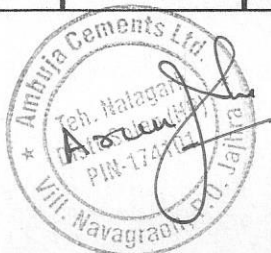
## TEST REPORT

Ref. No. IL/D-5559	Date 13-09-19	Lab No. 110919L-ED-025	Page No. 1/1
Customer	Ambuja Cements Limited Unit: Nalagarh, Vill- Navagraon P.O. Jajhra, Teh: Nalagarh Distt: Solan Himachal Pradesh		
Type of Sample	Stack Emission		
Customer's Description of Sample	Stack Emission		
Quantity	1 No.		
Packing, Markings	Thimble Packed in Polythene Pouch.		
Mode of Collection of Sample	Sampling by Laboratories		
Work Order No.	2800769094/NE29	Dated	29/08/2019
Date of Receipt of Sample	11/09/2019		
Period of Analysis	11/09/2019 To 12/09/2019		
Sampling Team Idma	Mr. Shakti Singh & Team	Client	Mr. Durga Singh
Sampling Location	Packing Plant Bag filter Stack -II		
Visual Observation	N/A		
Date of Sampling	09/09/2019		
Date of Reporting	12/09/2019		
Sampling Protocol	CPCB		
Testing Protocol	CPCB		

## RESULTS

S.No.	Test Parameter	Units	Results	Specifications	Test Method
	CHEMICAL DISCIPLINE (Atmospheric Pollution)	-	-	-	-
	GENERAL INFORMATION:	-	-	-	-
1	Stack Height	Meters	31.6	-	-
2	Stack dia	Meters	1	-	-
3	Ambient Temperature	°C	39	-	-
4	Stack Temperature	°C	43	-	-
5	Velocity	m/s	16.0	-	-
6	Type of Fuel	-	Electricity	-	-
7	Sampling Flow rate	LPM	21	-	-
8	Sampling Time	Minutes	30	-	-
9	Volumetric Flow rate	Nm³/hr	45216	-	-
	PARAMETERS:	-	-	-	-
10	PM	mg/Nm³	13.1	Max. 30	IS:11255(P-1)-1985 (RA 2014)

\*\*End of Report\*\*



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Annexure-2

## TEST REPORT

Ref. No. IL/D- 5280	Date 4.9.19	Lab No. 310819L-ED-007	Page No. 1/1
Customer	Ambuja Cements Limited Unit: Nalagarh, Vill- Navagraon P.O. Jajhra, Teh: Nalagarh Distt: Solan Himachal Pradesh		
Type of Sample	Air Quality Monitoring		
Customer's Description of Sample	Air Quality Monitoring		
Quantity	1 No.		
Packing, Markings	Filter Paper Packed in Polythene Pouch.		
Mode of Collection of Sample	Sampling by Laboratories		
Work Order No.	2800713676/NE29	Dated	25/06/2018
Date of Receipt of Sample	31/08/2019		
Period of Analysis	31/08/2019 To 04/09/2019		
Sampling Team Idma	Mr. Shakti Singh & Team	Client	Mr. Durga Singh
Sampling Location	Station No. 1 (Labour Hutment Toward Jajhra)		
Visual Observation	N/A		
Date of Sampling	28/08/2019		
Date of Reporting	04/09/2019		
Sampling Protocol	IS: 5182		
Testing Protocol	CPCB		

## RESULTS

S.No.	Test Parameter	Units	Results	Specifications	Test Method
	CHEMICAL DISCIPLINE (Atmospheric Pollution)	-	-	-	-
1	PM 10	µg/m³	74	Max. 100	IS:5182(P-23)-2006(RA 2017)
2	PM2.5	µg/m³	39	Max. 60	IDL/SP/03, Issue No-1. Issue Date.16.04.16
3	SO2	µg/m³	19.6	Max. 80	IS:5182(P-02)-2001 (RA 2017)
4	NO2	µg/m³	24.2	Max. 80	IS:5182(P-6)-2006(RA 2017)
5	NH3	µg/m³	59	Max. 400	IS:11255(P-6)-1999 (RA 2014)
6	CO	mg/m³	0.34	Max. 02	IS:5182(P-10)-1999 (RA 2014)
7	Ozone	µg/m³	18	Max. 100	IS:5182(P-9)-1974(RA 2014)
8	Benzene	µg/m³	<0.5	Max. 05	IS:5182 Pat-11 ,2006 (RA 2017)
9	Benzo-a-Pyrene(BaP) - Particulate phase	ng/m³	Not Detected	Max. 01	IS:5182 Part-12 , 2004, (RA 2014)
10	Arsenic	ng/m³	<0.1	Max. 06	EPA/625/R-96/010a:1999 & USEPA IO-3.2:1999
11	Nickel	ng/m³	<0.1	Max. 20	EPA/625/R-96/010a:1999 & USEPA IO-3.2:1999
12	Lead	µg/m³	<0.1	Max. 1.0	EPA/625/R-96/010a:1999 & USEPA IO-3.2:1999

\*\*End of Report\*\*

For Idma Laboratories Limited

Authorized Signatory



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## TEST REPORT

Ref. No. IL/D-	5281	Date	4.9.19	Lab No.	310819L-ED-008	Page No. 1/1	
Customer	Ambuja Cements Limited Unit: Nalagarh, Vill- Navagraon P.O. Jajhra, Teh: Nalagarh Distt: Solan Himachal Pradesh						
Type of Sample	Air Quality Monitoring						
Customer's Description of Sample	Air Quality Monitoring						
Quantity	1 No.						
Packing, Markings	Filter Paper Packed in Polythene Pouch.						
Mode of Collection of Sample	Sampling by Laboratories						
Work Order No.	2800713676/NE29					Dated	25/06/2018
Date of Receipt of Sample	31/08/2019						
Period of Analysis	31/08/2019 To 04/09/2019						
Sampling Team Idma	Mr. Shakti Singh & Team					Client	Mr. Durga Singh
Sampling Location	Station No. 2, Rain Water Harvesting.						
Visual Observation	N/A						
Date of Sampling	28/08/2019						
Date of Reporting	04/09/2019						
Sampling Protocol	IS: 5182						
Testing Protocol	IS 5182						

## RESULTS

S.No.	Test Parameter	Units	Results	Specifications	Test Method
	CHEMICAL DISCIPLINE (Atmospheric Pollution)	-	-	-	-
1	PM 10	µg/m <sup>3</sup>	89	Max. 100	IS:5182(P-23)-2006(RA 2017)
2	PM2.5	µg/m <sup>3</sup>	40	Max. 60	IDL/SP/03, Issue No-1. Issue Date.16.04.16
3	SO <sub>2</sub>	µg/m <sup>3</sup>	26	Max. 80	IS:5182(P-02)-2001 (RA 2017)
4	NO <sub>2</sub>	µg/m <sup>3</sup>	37	Max. 80	IS:5182(P-6)-2006(RA 2017)
5	NH <sub>3</sub>	µg/m <sup>3</sup>	78	Max. 400	IS:11255(P-6)-1999 (RA 2014)
6	CO	mg/m <sup>3</sup>	0.38	Max. 02	IS:5182(P-10)-1999 (RA 2014)
7	Ozone	µg/m <sup>3</sup>	23	Max. 100	IS:5182(P-9)-1974(RA 2014)
8	Benzene	µg/m <sup>3</sup>	<0.5	Max. 05	IS:5182 Pat-11 ,2006 (RA 2017)
9	Benzo-a-Pyrene(BaP ) - Particulate phase	ng/m <sup>3</sup>	Not Detected	Max. 01	IS:5182 Part-12 , 2004, (RA 2014)
10	Arsenic	ng/m <sup>3</sup>	<0.1	Max. 06	EPA/625/R-96/010a:1999 & USEPA IO-3.2:1999
11	Nickel	ng/m <sup>3</sup>	<0.1	Max. 20	EPA/625/R-96/010a:1999 & USEPA IO-3.2:1999
12	Lead	µg/m <sup>3</sup>	<0.1	Max. 1.0	EPA/625/R-96/010a:1999 & USEPA IO-3.2:1999

\*\*End of Report\*\*

For Idma Laboratories Limited

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## TEST REPORT

Ref. No. IL/D- 5282	Date 4.9.19	Lab No. 310819L-ED-009	Page No. 1/1
Customer	Ambuja Cements Limited Unit: Nalagarh, Vill- Navagraon P.O. Jajhra, Teh: Nalagarh Distt: Solan Himachal Pradesh		
Type of Sample	Air Quality Monitoring		
Customer's Description of Sample	Air Quality Monitoring		
Quantity	1 No.		
Packing, Markings	Filter Paper Packed in Polythene Pouch.		
Mode of Collection of Sample	Sampling by Laboratories		
Work Order No.	2800713676/NE29	Dated	25/06/2018
Date of Receipt of Sample	31/08/2019		
Period of Analysis	31/08/2019 To 04/09/2019		
Sampling Team Idma	Mr. Shakti Singh & Team	Client	Mr. Durga Singh
Sampling Location	Station No. 3 (Roof Top of Admin Block).		
Visual Observation	N/A		
Date of Sampling	28/08/2019		
Date of Reporting	04/09/2019		
Sampling Protocol	IS: 5182		
Testing Protocol	IS 5182		

## RESULTS

S.No.	Test Parameter	Units	Results	Specifications	Test Method
	CHEMICAL DISCIPLINE (Atmospheric Pollution)	-	-	-	-
1	PM 10	µg/m³	82	Max. 100	IS:5182(P-23)-2006(RA 2017)
2	PM2.5	µg/m³	39	Max. 60	IDL/SP/03, Issue No-1. Issue Date.16.04.16
3	SO2	µg/m³	18.6	Max. 80	IS:5182(P-02)-2001 (RA 2017)
4	NO2	µg/m³	26.3	Max. 80	IS:5182(P-6)-2006(RA 2017)
5	NH3	µg/m³	50	Max. 400	IS:11255(P-6)-1999 (RA 2014)
6	CO	mg/m³	0.14	Max. 02	IS:5182(P-10)-1999 (RA 2014)
7	Ozone	µg/m³	26	Max. 100	IS:5182(P-9)-1974(RA 2014)
8	Benzene	µg/m³	0.09	Max. 05	IS:5182 Pat-11 ,2006 (RA 2017)
9	Benzo-a-Pyrene(BaP) - Particulate phase	ng/m³	Not Detected	Max. 01	IS:5182 Part-12 , 2004, (RA 2014)
10	Arsenic	ng/m³	<0.05	Max. 06	EPA/625/R-96/010a:1999 & USEPA IO-3.2:1999
11	Nickel	ng/m³	<0.05	Max. 20	EPA/625/R-96/010a:1999 & USEPA IO-3.2:1999
12	Lead	µg/m³	<0.05	Max. 1.0	EPA/625/R-96/010a:1999 & USEPA IO-3.2:1999

\*\*End of Report\*\*



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Tech. Mgr.



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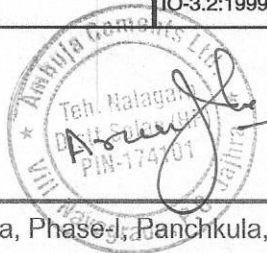
## TEST REPORT

Ref. No. IL/D- 5283	Date 4.9.19	Lab No. 310819L-ED-010	Page No. 1/1
Customer	Ambuja Cements Limited Unit: Nalagarh, Vill- Navagraon P.O. Jajhra, Teh: Nalagarh Distt: Solan Himachal Pradesh		
Type of Sample	Air Quality Monitoring		
Customer's Description of Sample	Air Quality Monitoring		
Quantity	1 No.		
Packing, Markings	Filter Paper Packed in Polythene Pouch.		
Mode of Collection of Sample	Sampling by Laboratories		
Work Order No.	2800713676/NE29	Dated	25/06/2018
Date of Receipt of Sample	31/08/2019		
Period of Analysis	31/08/2019 To 04/09/2019		
Sampling Team Idma	Mr. Shakti Singh & Team	Client	Mr. Durga Singh
Sampling Location	Station No. 4, (Rooftop of Guest House)		
Visual Observation	N/A		
Date of Sampling	28/08/2019		
Date of Reporting	04/09/2019		
Sampling Protocol	IS: 5182		
Testing Protocol	CPCB		

## RESULTS

S.No.	Test Parameter	Units	Results	Specifications	Test Method
	CHEMICAL DISCIPLINE (Atmospheric Pollution)	-	-	-	-
1	PM 10	µg/m³	72	Max. 100	IS:5182(P-23)-2006(RA 2017)
2	PM2.5	µg/m³	30	Max. 60	IDL/SP/03, Issue No-1. Issue Date.16.04.16
3	SO2	µg/m³	15.8	Max. 80	IS:5182(P-02)-2001 (RA 2017)
4	NO2	µg/m³	19.6	Max. 80	IS:5182(P-6)-2006(RA 2017)
5	NH3	µg/m³	41	Max. 400	IS:11255(P-6)-1999 (RA 2014)
6	CO	mg/m³	0.19	Max. 02	IS:5182(P-10)-1999 (RA 2014)
7	Ozone	µg/m³	24	Max. 100	IS:5182(P-9)-1974(RA 2014)
8	Benzene	µg/m³	<0.5	Max. 05	IS:5182 Pat-11 ,2006 (RA 2017)
9	Benzo-a-Pyrene(BaP) - Particulate phase	ng/m³	Not Detected	Max. 01	IS:5182 Part-12 , 2004, (RA 2014)
10	Arsenic	ng/m³	<0.1	Max. 06	EPA/625/R-96/010a:1999 & USEPA IO-3.2:1999
11	Nickel	ng/m³	<0.1	Max. 20	EPA/625/R-96/010a:1999 & USEPA IO-3.2:1999
12	Lead	µg/m³	<0.1	Max. 1.0	EPA/625/R-96/010a:1999 & USEPA IO-3.2:1999

\*\*End of Report\*\*



For Idma Laboratories Limited

Authorized Signatory

Kartar Singh  
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## TEST REPORT

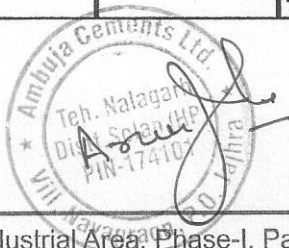
TEST REPORT

Ref. No. IL/D-	5284	Date	4.9.19	Lab No.	310819L-ED-011	Page No.	1/1
Customer	Ambuja Cements Limited Unit: Nalagarh, Vill- Navagraon P.O. Jajhra, Teh: Nalagarh Distt: Solan Himachal Pradesh						
Type of Sample	Air Quality Monitoring						
Customer's Description of Sample	Air Quality Monitoring						
Quantity	1 No.						
Packing, Markings	Filter Paper Packed in Polythene Pouch.						
Mode of Collection of Sample	Sampling by Laboratories						
Work Order No.	2800713676/NE29					Dated	25/06/2018
Date of Receipt of Sample	31/08/2019						
Period of Analysis	31/08/2019 To 04/09/2019						
Sampling Team Idma	Mr. Shakti Singh & Team					Client	Mr. Durga Singh
Sampling Location	Station No. 5 (Near Nursery Toward Patir Phaloo)						
Visual Observation	N/A						
Date of Sampling	28/08/2019						
Date of Reporting	04/09/2019						
Sampling Protocol	IS: 5182						
Testing Protocol	IS 5182						

## RESULTS

S.No.	Test Parameter	Units	Results	Specifications	Test Method
	CHEMICAL DISCIPLINE (Atmospheric Pollution)	-	-	-	-
1	PM 10	µg/m³	75	Max. 100	IS:5182(P-23)-2006(RA 2017)
2	PM2.5	µg/m³	38	Max. 60	IDL/SP/03, Issue No-1. Issue Date.16.04.16
3	SO2	µg/m³	21	Max. 80	IS:5182(P-02)-2001 (RA 2017)
4	NO2	µg/m³	26	Max. 80	IS:5182(P-6)-2006(RA 2017)
5	NH3	µg/m³	58	Max. 400	IS:11255(P-6)-1999 (RA 2014)
6	CO	mg/m³	0.31	Max. 02	IS:5182(P-10)-1999 (RA 2014)
7	Ozone	µg/m³	23	Max. 100	IS:5182(P-9)-1974(RA 2014)
8	Benzene	µg/m³	<0.5	Max. 05	IS:5182 Pat-11, 2006 (RA 2017)
9	Benzo-a-Pyrene(BaP) - Particulate phase	ng/m³	Not Detected	Max. 01	IS:5182 Part-12, 2004, (RA 2014)
10	Arsenic	ng/m³	<0.1	Max. 06	EPA/625/R-96/010a:1999 & USEPA IO-3.2:1999
11	Nickel	ng/m³	<0.1	Max. 20	EPA/625/R-96/010a:1999 & USEPA IO-3.2:1999
12	Lead	µg/m³	<0.1	Max. 1.0	EPA/625/R-96/010a:1999 & USEPA IO-3.2:1999

\*\*End of Report\*\*



For Idma Laboratories Limited

Authorized Signatory



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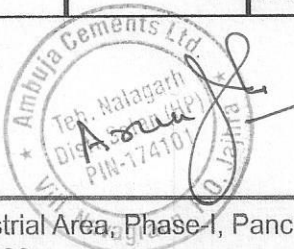
## TEST REPORT

Ref. No. IL/D- 5285	Date 4.9.19	Lab No. 310819L-ED-012	Page No. 1/1
Customer	Ambuja Cements Limited Unit: Nalagarh, Vill- Navagraon P.O. Jajhra, Teh: Nalagarh Distt: Solan Himachal Pradesh		
Type of Sample	Air Quality Monitoring		
Customer's Description of Sample	Air Quality Monitoring		
Quantity	1 No.		
Packing, Markings	Filter Paper Packed in Polythene Pouch.		
Mode of Collection of Sample	Sampling by Laboratories		
Work Order No.	2800713676/NE29	Dated	25/06/2018
Date of Receipt of Sample	31/08/2019		
Period of Analysis	31/08/2019 To 04/09/2019		
Sampling Team Idma	Mr. Shakti Singh & Team	Client	Mr. Durga Singh
Sampling Location	Station No. 6 (STP Towards Ratyor)		
Visual Observation	N/A		
Date of Sampling	28/08/2019		
Date of Reporting	04/09/2019		
Sampling Protocol	IS: 5182		
Testing Protocol	CPCB		

## RESULTS

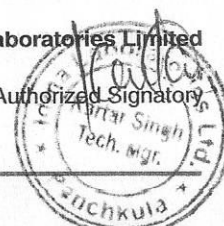
S.No.	Test Parameter	Units	Results	Specifications	Test Method
	CHEMICAL DISCIPLINE (Atmospheric Pollution)	-	-	-	-
1	PM 10	µg/m³	87	Max. 100	IS:5182(P-23)-2006(RA 2017)
2	PM2.5	µg/m³	35	Max. 60	IDL/SP/03, Issue No-1. Issue Date.16.04.16
3	SO2	µg/m³	24.8	Max. 80	IS:5182(P-02)-2001 (RA 2017)
4	NO2	µg/m³	36.3	Max. 80	IS:5182(P-6)-2006(RA 2017)
5	NH3	µg/m³	82	Max. 400	IS:11255(P-6)-1999 (RA 2014)
6	CO	mg/m³	0.25	Max. 02	IS:5182(P-10)-1999 (RA 2014)
7	Ozone	µg/m³	18	Max. 100	IS:5182(P-9)-1974(RA 2014)
8	Benzene	µg/m³	<0.5	Max. 05	IS:5182 Pat-11, 2006 (RA 2017)
9	Benzo-a-Pyrene(BaP) - Particulate phase	ng/m³	Not Detected	Max. 01	IS:5182 Part-12, 2004, (RA 2014)
10	Arsenic	ng/m³	<0.1	Max. 06	EPA/625/R-96/010a:1999 & USEPA IO-3.2:1999
11	Nickel	ng/m³	<0.1	Max. 20	EPA/625/R-96/010a:1999 & USEPA IO-3.2:1999
12	Lead	µg/m³	<0.1	Max. 1.0	EPA/625/R-96/010a:1999 & USEPA IO-3.2:1999

\*\*End of Report\*\*



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**AMBUJA CEMENTS LIMITED (UNIT - NALAGARH)**  
**PLANTATION DATA UPTO SEPTEMBER 2019**

Month	Trees planted	Shrubs planted
Upto December 2010	1640	8968
January to December 2011	1161	18895
January to December 2012	929	2835
January to December 2013	570	2380
January to December 2014	596	636
January to December 2015	582	257
January to December 2016	570	330
January to December 2017	349	257
January to December 2018	500	0
January 2019	0	0
February 2019	0	0
March 2019	0	0
April 2019	0	0
May 2019	0	0
June 2019	50	0
July 2019	51	500
August 2019	200	1000
September 2019	100	200
<b>TOTAL</b>	<b>7298</b>	<b>36258</b>



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

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





	types of continuous monitoring equipment and feedback form the industries and equipment manufactures, NTF will decide feasible unit operations/sections for installation of continuous monitoring equipment. The industry will install the continuous monitoring systems (CMS) by December 2003	system has been installed at Cement Mill Stack. Also a Continuous Ambient Air Quality Monitoring Station (CAAQMS) has been installed.  Both the systems have been connected with CPCB and State Pollution Control Board for online data transmission.
9	Tripping in kiln ESP to be minimized by July 2003 as per the recommendations of NTF.	Not Applicable as this is a standalone Grinding Unit.
10	Industries will submit the target date to enhance the utilization of waste material by April, 2003.	All the particulate matter collected through APCEs is automatically recycled in the respected processes. More over we are using fly ash for making Pozolona Portland Cement (PPC) which is waste of Thermal Plants.
11	NCBM will carry out a study on hazardous waste utilization in cement kiln by December 2003.	Not Applicable as this is a standalone Grinding Unit.
12	Cement industries will carry out feasibility study and submit target dates to CPCB for co-generation of power by July 2003. * Non complying units shall given bank guarantee to respective SPCBs.	Not Applicable.







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Annexure-5

## TEST REPORT

Ref. No. IL/D- 5535	Date 13.09.19	Lab No.	110919L-ED-001	Page No. 1/1
Customer	Ambuja Cements Limited Unit: Nalagarh, Vill- Navagraon P.O. Jajhra, Teh: Nalagarh Distt: Solan Himachal Pradesh			
Type of Sample	Fugitive Emission			
Customer's Description of Sample	Fugitive Emission			
Quantity	1 No.			
Packing, Markings	Filter Paper Packed in Polythene Pouch.			
Mode of Collection of Sample	Sampling by Laboratories			
Work Order No.	2800769094/NE29	Dated	29/08/2019	
Date of Receipt of Sample	11/09/2019			
Period of Analysis	11/09/2019 To 12/09/2019			
Sampling Team Idma	Mr. Shakti Singh & Team	Client	Mr. Durga Singh	
Sampling Location	Packer Floor			
Visual Observation	N/A			
Date of Sampling	09/09/2019			
Date of Reporting	12/09/2019			
Sampling Protocol	IS: 5182			
Testing Protocol	CPCB			

## RESULTS

S.No.	Test Parameter	Units	Results	Specifications	Test Method
	CHEMICAL DISCIPLINE (Atmospheric Pollution)	-	-	-	-
1	SPM	µg/m <sup>3</sup>	2632	Max. 5000	APHA ( Air ) 23rd Edition, 2017 or ILL_SOP_AIR_001 Issue No.001, Issue date:02.04.18

\*\*End of Report\*\*

For Idma Laboratories Limited

Authorized Signatory



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## TEST REPORT

Ref. No. IL/D- 5536	Date	13.09.19	Lab No.	110919L-ED-002	Page No. 1/1
Customer	Ambuja Cements Limited Unit: Nalagarh, Vill- Navagraon P.O. Jajhra, Teh: Nalagarh Distt: Solan Himachal Pradesh				
Type of Sample	Fugitive Emission				
Customer's Description of Sample	Fugitive Emission				
Quantity	1 No.				
Packing, Markings	Filter Paper Packed in Polythene Pouch.				
Mode of Collection of Sample	Sampling by Laboratories				
Work Order No.	2800769094/NE29	Dated	29/08/2019		
Date of Receipt of Sample	11/09/2019				
Period of Analysis	11/09/2019 To 12/09/2019				
Sampling Team Idma	Mr. Shakti Singh & Team	Client	Mr. Durga Singh		
Sampling Location	Cement Loading Floor				
Visual Observation	N/A				
Date of Sampling	09/09/2019				
Date of Reporting	12/09/2019				
Sampling Protocol	IS: 5182				
Testing Protocol	CPCB				

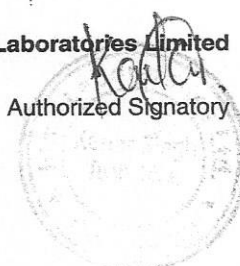
## RESULTS

S.No.	Test Parameter	Units	Results	Specifications	Test Method
	CHEMICAL DISCIPLINE (Atmospheric Pollution)	-	-	-	-
1	SPM "	µg/m³	2875	Max. 5000	APHA ( Air ) 23rd Edition, 2017 or ILL_SOP_AIR_001 Issue No.001, Issue date:02.04.18

\*\*End of Report\*\*

For Idma Laboratories Limited

Authorized Signatory



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## TEST REPORT

Ref. No. IL/D-5537	Date	13-09-19	Lab No.	110919L-ED-003	Page No. 1/1
Customer	Ambuja Cements Limited Unit: Nalagarh, Vill- Navagraon P.O. Jajhra, Teh: Nalagarh Distt: Solan Himachal Pradesh				
Type of Sample	Fugitive Emission				
Customer's Description of Sample	Fugitive Emission				
Quantity	1 No.				
Packing, Markings	Filter Paper Packed in Polythene Pouch.				
Mode of Collection of Sample	Sampling by Laboratories				
Work Order No.	2800769094/NE29	Dated	29/08/2019		
Date of Receipt of Sample	11/09/2019				
Period of Analysis	11/09/2019 To 12/09/2019				
Sampling Team Idma	Mr. Shakti Singh & Team	Client	Mr. Durga Singh		
Sampling Location	Gypsum Handling Area				
Visual Observation	N/A				
Date of Sampling	09/09/2019				
Date of Reporting	12/09/2019				
Sampling Protocol	IS: 5182				
Testing Protocol	CPCB				

## RESULTS

S.No.	Test Parameter	Units	Results	Specifications	Test Method
	CHEMICAL DISCIPLINE (Atmospheric Pollution)	-	-	-	-
1	SPM <sup>2.5</sup>	µg/m <sup>3</sup>	2560	Max. 5000	APHA ( Air ) 23rd Edition, 2017 or ILL_SOP_AIR_001 Issue No.001, Issue date:02.04.18

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## TEST REPORT

Ref. No. IL/D-5538	Date 13-09-19	Lab No. 110919L-ED-004	Page No. 1/1
Customer	Ambuja Cements Limited Unit: Nalagarh, Vill- Navagraon P.O. Jajhra, Teh: Nalagarh Distt: Solan Himachal Pradesh		
Type of Sample	Fugitive Emission		
Customer's Description of Sample	Fugitive Emission		
Quantity	1 No.		
Packing, Markings	Filter Paper Packed in Polythene Pouch.		
Mode of Collection of Sample	Sampling by Laboratories		
Work Order No.	2800769094/NE29	Dated	29/08/2019
Date of Receipt of Sample	11/09/2019		
Period of Analysis	11/09/2019 To 12/09/2019		
Sampling Team Idma	Mr. Shakti Singh & Team	Client	Mr. Durga Singh
Sampling Location	Material Gate		
Visual Observation	N/A		
Date of Sampling	09/09/2019		
Date of Reporting	12/09/2019		
Sampling Protocol	IS: 5182		
Testing Protocol	CPCB		

## RESULTS

S.No.	Test Parameter	Units	Results	Specifications	Test Method
	CHEMICAL DISCIPLINE (Atmospheric Pollution)	-	-	-	-
1	SPM*	µg/m <sup>3</sup>	1362	Max. 2000	APHA ( Air ) 23rd Edition, 2017 or ILL_SOP_AIR_001 Issue No.001, Issue date:02.04.18

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## TEST REPORT

Ref. No. IL/D-5539	Date 13.09.19	Lab No. 110919L-ED-005	Page No. 1/1
Customer	Ambuja Cements Limited Unit: Nalagarh, Vill- Navagraon P.O. Jajhra, Teh: Nalagarh Distt: Solan Himachal Pradesh		
Type of Sample	Fugitive Emission		
Customer's Description of Sample	Fugitive Emission		
Quantity	1 No.		
Packing, Markings	Filter Paper Packed in Polythene Pouch.		
Mode of Collection of Sample	Sampling by Laboratories		
Work Order No.	2800769094/NE29	Dated	29/08/2019
Date of Receipt of Sample	11/09/2019		
Period of Analysis	11/09/2019 To 12/09/2019		
Sampling Team Idma	Mr. Shakti Singh & Team	Client	Mr. Durga Singh
Sampling Location	Flyash Handling Area		
Visual Observation	N/A		
Date of Sampling	09/09/2019		
Date of Reporting	12/09/2019		
Sampling Protocol	IS: 5182		
Testing Protocol	CPCB		

## RESULTS

S.No.	Test Parameter	Units	Results	Specifications	Test Method
	CHEMICAL DISCIPLINE (Atmospheric Pollution)	-	-	-	-
1	SPM <sup>10</sup>	µg/m <sup>3</sup>	1734	Max. 2000	APHA ( Air ) 23rd Edition, 2017 or ILL_SOP_AIR_001 Issue No.001, Issue date:02.04.18

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## TEST REPORT

Ref. No. IL/D-5546	Date	13.09.19	Lab No.	110919L-ED-006	Page No. 1/1
Customer	Ambuja Cements Limited Unit: Nalagarh, Vill- Navagraon P.O. Jajhra, Teh: Nalagarh Distt: Solan Himachal Pradesh				
Type of Sample	Fugitive Emission				
Customer's Description of Sample	Fugitive Emission				
Quantity	1 No.				
Packing, Markings	Filter Paper Packed in Polythene Pouch.				
Mode of Collection of Sample	Sampling by Laboratories				
Work Order No.	2800769094/NE29	Dated	29/08/2019		
Date of Receipt of Sample	11/09/2019				
Period of Analysis	11/09/2019 To 12/09/2019				
Sampling Team Idma	Mr. Shakti Singh & Team	Client	Mr. Durga Singh		
Sampling Location	Clinker Tippler Area				
Visual Observation	N/A				
Date of Sampling	09/09/2019				
Date of Reporting	12/09/2019				
Sampling Protocol	IS: 5182				
Testing Protocol	CPCB				

## RESULTS

S.No.	Test Parameter	Units	Results	Specifications	Test Method
	CHEMICAL DISCIPLINE (Atmospheric Pollution)	-	-	-	-
1	SPM <sup>10</sup>	µg/m <sup>3</sup>	1857	Max. 5000	APHA ( Air ) 23rd Edition, 2017 or ILL_SOP_AIR_001 Issue No.001, Issue date:02.04.18



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Annexure-6

## TEST REPORT

Ref. No. IL/D-5546	Date	13.09.19	Lab No.	110919L-ED-012	Page No. 1/1
Customer	Ambuja Cements Limited Unit: Nalagarh, Vill- Navagraon P.O. Jajhra, Teh: Nalagarh Distt: Solan Himachal Pradesh				
Type of Sample	Noise Level (Ambient)				
Customer's Description of Sample	Noise Level (Ambient)				
Quantity	1 No.				
Packing, Markings	Instrument at Site.				
Mode of Collection of Sample	Sampling by Laboratories				
Work Order No.	2800769094/NE29	Dated	29/08/2019		
Date of Receipt of Sample	11/09/2019				
Period of Analysis	11/09/2019 To 12/09/2019				
Sampling Team Idma	Mr. Shakti Singh & Team	Client	Mr. Durga Singh		
Sampling Location	Near Admin Building				
Visual Observation	N/A				
Date of Sampling	09/09/2019				
Date of Reporting	12/09/2019				
Sampling Protocol	CPCB				
Testing Protocol	CPCB PROTOCOL July 2015				

## RESULTS

S.No.	Test Parameter	Units	Results	Limits, Day	Test Method
	CHEMICAL DISCIPLINE (Atmospheric Pollution)	-	-	-	-
1	Lday	dB(A)	57.8	Max 75	CPCB PROTOCOL July 2015.
2	LNight	dB(A)	40.5	Max 70	CPCB PROTOCOL July 2015.



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## TEST REPORT

Ref. No. IL/D-5547	Date	13-09-19	Lab No.	110919L-ED-013	Page No. 1/1
Customer	Ambuja Cements Limited Unit: Nalagarh, Vill- Navagraon P.O. Jajhra, Teh: Nalagarh Distt: Solan Himachal Pradesh				
Type of Sample	Noise Level (Ambient)				
Customer's Description of Sample	Noise Level (Ambient)				
Quantity	1 No.				
Packing, Markings	Instrument at Site.				
Mode of Collection of Sample	Sampling by Laboratories				
Work Order No.	2800769094/NE29	Dated	29/08/2019		
Date of Receipt of Sample	11/09/2019				
Period of Analysis	11/09/2019 To 12/09/2019				
Sampling Team Idma	Mr. Shakti Singh & Team	Client	Mr. Durga Singh		
Sampling Location	Infront of DG.				
Visual Observation	N/A				
Date of Sampling	09/09/2019				
Date of Reporting	12/09/2019				
Sampling Protocol	CPCB				
Testing Protocol	CPCB PROTOCOL July 2015				

## RESULTS

S.No.	Test Parameter	Units	Results	Limits, Day	Test Method
	CHEMICAL DISCIPLINE (Atmospheric Pollution)	-	-	-	-
1	Lday	dB(A)	59.4	Max 75	CPCB PROTOCOL July 2015.
2	LNight	dB(A)	41.9	Max 70	CPCB PROTOCOL July 2015.



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## TEST REPORT

Ref. No. IL/D-5548	Date	13.09.19	Lab No.	110919L-ED-014	Page No. 1/1
Customer	Ambuja Cements Limited Unit: Nalagarh, Vill- Navagraon P.O. Jajhra, Teh: Nalagarh Distt: Solan Himachal Pradesh				
Type of Sample	Noise Level (Ambient)				
Customer's Description of Sample	Noise Level (Ambient)				
Quantity	1 No.				
Packing, Markings	Instrument at Site.				
Mode of Collection of Sample	Sampling by Laboratories				
Work Order No.	2800769094/NE29	Dated	29/08/2019		
Date of Receipt of Sample	11/09/2019				
Period of Analysis	11/09/2019 To 12/09/2019				
Sampling Team Idma	Mr. Shakti Singh & Team	Client	Mr. Durga Singh		
Sampling Location	Near Borewell (Dispensary)				
Visual Observation	N/A				
Date of Sampling	09/09/2019				
Date of Reporting	12/09/2019				
Sampling Protocol	CPCB				
Testing Protocol	CPCB PROTOCOL July 2015				

## RESULTS

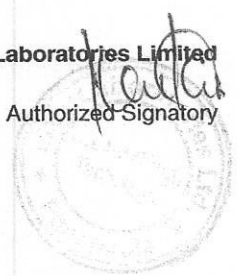
S.No.	Test Parameter	Units	Results	Limits, Day	Test Method
	CHEMICAL DISCIPLINE (Atmospheric Pollution)	-	-	-	-
1	Lday	dB(A)	49.3	Max 75	CPCB PROTOCOL July 2015.
2	LNight	dB(A)	38.8	Max 70	CPCB PROTOCOL July 2015.



\*\*End of Report\*\*

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## TEST REPORT

Ref. No. IL/D-5549	Date 18-09-19	Lab No. 110919L-ED-015	Page No. 1/1
Customer	Ambuja Cements Limited Unit: Nalagarh, Vill- Navagraon P.O. Jajhra, Teh: Nalagarh Distt: Solan Himachal Pradesh		
Type of Sample	Noise Level (Ambient)		
Customer's Description of Sample	Noise Level (Ambient)		
Quantity	1 No.		
Packing, Markings	Instrument at Site.		
Mode of Collection of Sample	Sampling by Laboratories		
Work Order No.	2800769094/NE29	Dated	29/08/2019
Date of Receipt of Sample	11/09/2019		
Period of Analysis	11/09/2019 To 12/09/2019		
Sampling Team Idma	Mr. Shakti Singh & Team	Client	Mr. Durga Singh
Sampling Location	Near Store Building (On Road Toward Building)		
Visual Observation	N/A		
Date of Sampling	09/09/2019		
Date of Reporting	12/09/2019		
Sampling Protocol	CPCB		
Testing Protocol	CPCB PROTOCOL July 2015		

## RESULTS

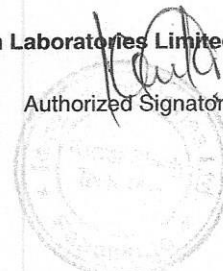
S.No.	Test Parameter	Units	Results	Limits, Day	Test Method
	CHEMICAL DISCIPLINE (Atmospheric Pollution)	-	-	-	-
1	Lday	dB(A)	61.2	Max 75	CPCB PROTOCOL July 2015.
2	LNight	dB(A)	42.7	Max 70	CPCB PROTOCOL July 2015.



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## TEST REPORT

Ref. No. IL/D <sub>2</sub> 5550	Date	13-09-19	Lab No.	110919L-ED-016	Page No. 1/1
Customer	Ambuja Cements Limited Unit: Nalagarh, Vill- Navagraon P.O. Jajhra, Teh: Nalagarh Distt: Solan Himachal Pradesh				
Type of Sample	Noise Level (Ambient)				
Customer's Description of Sample	Noise Level (Ambient)				
Quantity	1 No.				
Packing, Markings	Instrument at Site.				
Mode of Collection of Sample	Sampling by Laboratories				
Work Order No.	2800769094/NE29	Dated	29/08/2019		
Date of Receipt of Sample	11/09/2019				
Period of Analysis	11/09/2019 To 12/09/2019				
Sampling Team Idma	Mr. Shakti Singh & Team	Client	Mr. Durga Singh		
Sampling Location	At Material Gate				
Visual Observation	N/A				
Date of Sampling	09/09/2019				
Date of Reporting	12/09/2019				
Sampling Protocol	CPCB				
Testing Protocol	CPCB PROTOCOL July 2015				

## RESULTS

S.No.	Test Parameter	Units	Results	Limits, Day	Test Method
	CHEMICAL DISCIPLINE (Atmospheric Pollution)	-	-	-	-
1	Lday	dB(A)	60.4	Max 75	CPCB PROTOCOL July 2015.
2	LNight	dB(A)	43.6	Max 70	CPCB PROTOCOL July 2015.

\*\*End of Report\*\*



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## TEST REPORT

Ref. No. IL/D-5551	Date 13-09-19	Lab No. 110919L-ED-017	Page No. 1/1
Customer	Ambuja Cements Limited Unit: Nalagarh, Vill- Navagraon P.O. Jajhra, Teh: Nalagarh Distt: Solan Himachal Pradesh		
Type of Sample	Noise Level (Ambient)		
Customer's Description of Sample	Noise Level (Ambient)		
Quantity	1 No.		
Packing, Markings	Instrument at Site.		
Mode of Collection of Sample	Sampling by Laboratories		
Work Order No.	2800769094/NE29	Dated	29/08/2019
Date of Receipt of Sample	11/09/2019		
Period of Analysis	11/09/2019 To 12/09/2019		
Sampling Team Idma	Mr. Shakti Singh & Team	Client	Mr. Durga Singh
Sampling Location	Near Weight Bridge		
Visual Observation	N/A		
Date of Sampling	09/09/2019		
Date of Reporting	12/09/2019		
Sampling Protocol	CPCB		
Testing Protocol	CPCB PROTOCOL July 2015		

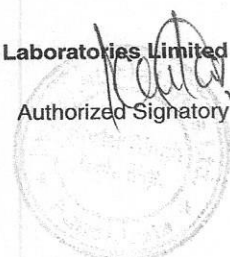
## RESULTS

S.No.	Test Parameter	Units	Results	Limits, Day	Test Method
	CHEMICAL DISCIPLINE (Atmospheric Pollution)	-	-	-	-
1	Lday	dB(A)	57.1	Max 75	CPCB PROTOCOL July 2015.
2	LNight	dB(A)	42.9	Max 70	CPCB PROTOCOL July 2015.

\*\*End of Report\*\*



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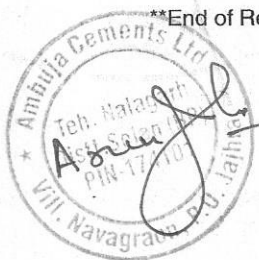
## TEST REPORT

Ref. No. IL/D-5552	Date 13/09/19	Lab No. 110919L-ED-018	Page No. 1/1
Customer	Ambuja Cements Limited Unit: Nalagarh, Vill- Navagraon P.O. Jajhra, Teh: Nalagarh Distt: Solan Himachal Pradesh		
Type of Sample	Noise Level (Ambient)		
Customer's Description of Sample	Noise Level (Ambient)		
Quantity	1 No.		
Packing, Markings	Instrument at Site.		
Mode of Collection of Sample	Sampling by Laboratories		
Work Order No.	2800769094/NE29	Dated	29/08/2019
Date of Receipt of Sample	11/09/2019		
Period of Analysis	11/09/2019 To 12/09/2019		
Sampling Team Idma	Mr. Shakti Singh & Team	Client	Mr. Durga Singh
Sampling Location	Near Scrap Yard		
Visual Observation	N/A		
Date of Sampling	09/09/2019		
Date of Reporting	12/09/2019		
Sampling Protocol	CPCB		
Testing Protocol	CPCB PROTOCOL July 2015		

## RESULTS

S.No.	Test Parameter	Units	Results	Limits, Day	Test Method
	CHEMICAL DISCIPLINE (Atmospheric Pollution)	-	-	-	-
1	Lday	dB(A)	52.7	Max 75	CPCB PROTOCOL July 2015.
2	LNight	dB(A)	40.6	Max 70	CPCB PROTOCOL July 2015.

\*\*End of Report\*\*



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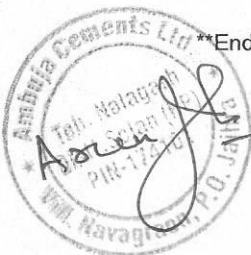
NABL (TC-8207) MOEF/BIS/FSSAI/State Pollution Boards/Drug & Cosmetic Act/ISO 9001; 14001; 18001 Certified

## TEST REPORT

Ref. No. IL/D-5553	Date 10-09-19	Lab No. 110919L-ED-019	Page No. 1/1
Customer	Ambuja Cements Limited Unit: Nalagarh, Vill- Navagraon P.O. Jajhra, Teh: Nalagarh Distt: Solan Himachal Pradesh		
Type of Sample	Noise Level (Ambient)		
Customer's Description of Sample	Noise Level (Ambient)		
Quantity	1 No.		
Packing, Markings	Instrument at Site.		
Mode of Collection of Sample	Sampling by Laboratories		
Work Order No.	2800769094/NE29	Dated	29/08/2019
Date of Receipt of Sample	11/09/2019		
Period of Analysis	11/09/2019 To 12/09/2019		
Sampling Team Idma	Mr. Shakti Singh & Team	Client	Mr. Durga Singh
Sampling Location	Near Rain Water Harvesting Structure		
Visual Observation	N/A		
Date of Sampling	09/09/2019		
Date of Reporting	12/09/2019		
Sampling Protocol	CPCB		
Testing Protocol	CPCB PROTOCOL July 2015		

## RESULTS

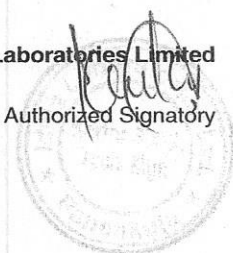
S.No.	Test Parameter	Units	Results	Limits, Day	Test Method
	CHEMICAL DISCIPLINE (Atmospheric Pollution)	-	-	-	-
1	Lday	dB(A)	49.4	Max 75	CPCB PROTOCOL July 2015.
2	LNight	dB(A)	39.7	Max 70	CPCB PROTOCOL July 2015.



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## TEST REPORT

Ref. No. IL/D-5554	Date 13-09-19	Lab No. 110919L-ED-020	Page No. 1/1
Customer	Ambuja Cements Limited Unit: Nalagarh, Vill- Navagraon P.O. Jajhra, Teh: Nalagarh Distt: Solan Himachal Pradesh		
Type of Sample	Noise Level (Ambient)		
Customer's Description of Sample	Noise Level (Ambient)		
Quantity	1 No.		
Packing, Markings	Instrument at Site.		
Mode of Collection of Sample	Sampling by Laboratories		
Work Order No.	2800769094/NE29	Dated	29/08/2019
Date of Receipt of Sample	11/09/2019		
Period of Analysis	11/09/2019 To 12/09/2019		
Sampling Team Idma	Mr. Shakti Singh & Team	Client	Mr. Durga Singh
Sampling Location	Near STP (On Road)		
Visual Observation	N/A		
Date of Sampling	09/09/2019		
Date of Reporting	12/09/2019		
Sampling Protocol	CPCB		
Testing Protocol	CPCB PROTOCOL July 2015		

## RESULTS

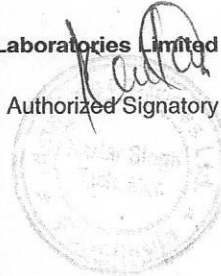
S.No.	Test Parameter	Units	Results	Limits, Day	Test Method
	CHEMICAL DISCIPLINE (Atmospheric Pollution)	-	-	-	-
1	Lday	dB(A)	59.8	Max 75	CPCB PROTOCOL July 2015.
2	LNight	dB(A)	41.2	Max 70	CPCB PROTOCOL July 2015.

\*\*End of Report\*\*



For Idma Laboratories Limited

Authorized Signatory



Idma Corporate Park, 391, Industrial Area, Phase-I, Panchkula, Haryana.

Tel. No. : 0172-5064827, 5064830

Website : www.idmagroup.co.in E-mail : testing@idmagroup.co.in

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9/10





# Idma Laboratories Limited

(A Government Approved Test House)

NABL (TC-8207) MOEF/BIS/FSSAI/State Pollution Boards/Drug & Cosmetic Act/ISO 9001; 14001; 18001 Certified

## TEST REPORT

Ref. No. IL/D-5555	Date	13-9-19	Lab No.	110919L-ED-021	Page No. 1/1
Customer	Ambuja Cements Limited Unit: Nalagarh, Vill- Navagraon P.O. Jajhra, Teh: Nalagarh Distt: Solan Himachal Pradesh				
Type of Sample	Noise Level (Ambient)				
Customer's Description of Sample	Noise Level (Ambient)				
Quantity	1 No.				
Packing, Markings	Instrument at Site.				
Mode of Collection of Sample	Sampling by Laboratories				
Work Order No.	2800769094/NE29	Dated	29/08/2019		
Date of Receipt of Sample	11/09/2019				
Period of Analysis	11/09/2019 To 12/09/2019				
Sampling Team Idma	Mr. Shakti Singh & Team	Client	Mr. Durga Singh		
Sampling Location	Mear MPSS Building				
Visual Observation	N/A				
Date of Sampling	09/09/2019				
Date of Reporting	12/09/2019				
Sampling Protocol	CPCB				
Testing Protocol	CPCB PROTOCOL July 2015				

## RESULTS

S.No.	Test Parameter	Units	Results	Limits, Day	Test Method
	CHEMICAL DISCIPLINE (Atmospheric Pollution)	-	-	-	-
1	Lday	dB(A)	58.9	Max 75	CPCB PROTOCOL July 2015.
2	LNight	dB(A)	41.5	Max 70	CPCB PROTOCOL July 2015.



\*\*End of Report\*\*

For Idma Laboratories Limited

Authorized Signatory



Idma Corporate Park, 391, Industrial Area, Phase-I, Panchkula, Haryana.

Tel. No. : 0172-5064827, 5064830

Website : www.idmagroup.co.in E-mail : testing@idmagroup.co.in

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10/10



Annexure-7



Anil Kumar  
29yus/m  
2007797

VN- R 6/6 NVN 6BE  
U.A L 6/18 U.A

Colour VN → WNLBE  
NO Acceptance of glasses.

if  
3/5/19



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NOT VALID FOR MEDICO-LEGAL PURPOSES



Department of  
Preventive and Occupational Health  
Film No. - 15

Name: - Anil Kumar

Gender:- Male

Age: 29 Yrs

Ref By :- Medical

Date:- 07-05-2019

Emp Code:- 2007797

**CHEST X-RAY PA VIEW**

Lung fields appear normal.

Chest cage is within normal limit.

Trachea is central.

Costophrenic & Cardiophrenic angles and apices are normal.

Lung Fields are clear with no parenchymal lung lesion seen.

Aortic shadow is normal.

Both hila are unremarkable.

Cardiac size appears normal.

Both domes are normally placed with normal contours.

**IMPRESSION:**

- **NORMAL STUDY**

**ADVICE**

To correlate clinically with other views or investigations to R/O undetected pathology or other possibility & its significance.

*Neha*

**Dr. Neha Gopal Uttam**  
Consultant Radiologist



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# Department of Preventive and Occupational Health

## Ambuja Cements Limited (Nalagarh)

NAME	: ANIL KUMAR	SEX :-	MALE
AGE	: 29 YRS	Date:-	03/05/2019 TO 07/05/2019
LAB. No.	: 160	EMP.CODE:-	2007797

### HAEMATOLOGY

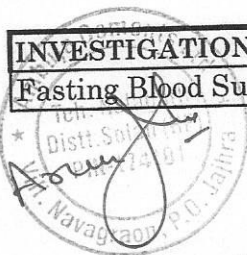
INVESTIGATIONS	RESULTS	REFERENCE RANGE
Haemoglobin	14.7	Male 13 - 18 gm/dl Female 11 - 15 gm/dl
T.L.C.	5600	4000 - 11000 /cmm
D.L.C.		
Neutrophils	48	45 - 75%
Lymphocytes	43	20 - 45%
Monocytes	5	0 - 10%
Eosinophils	4	0.00 - 06%
Basophils	0	0.00 - 3.00 %
E.S.R. (Wintrobe)	9	0-20 mm/hr
Platelets	1.83	1.5 - 4.5 Lacs
P.C.V.	41	Male 38 - 54 % Female 35 - 47 %
R.B.C.	4.71	3.8 - 5.8 Million
M C.V.	96.7	80 - 95 fl
M.C.H.	31.3	27 - 32 pg
M.C.H.C.	36	32 - 36 gm/dl

### LIPID PROFILE

INVESTIGATIONS	RESULTS	REFERENCE RANGE
Total Cholesterol	162.00	< 200 mg/dl
HDL Cholesterol	43.00	Male 30 - 70 mg/dl Female 35 - 90 mg/dl
LDL	89.20	74 - 130 mg/dl
VLDL	29.80	10 - 32 mg/dl
Triglycerides	149.00	Male 40 - 160 mg/dl Female 40 - 145 mg/dl
Cholesterol/HDL Ratio	3.77	3 - 5 %
LDL/HDL Ratio	2.07	1.5 - 3.5 %
Total Lipids	478.84	400 - 700 mg/dl

### CLINICAL CHEMISTRY

INVESTIGATIONS	RESULTS	REFERENCE RANGE
Fasting Blood Sugar	85	70 - 110 mg/dl



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3/12



# Department of Preventive and Occupational Health

## LIVER FUNCTION TEST

INVESTIGATIONS	RESULTS	REFERENCE RANGE
Total Bilirubin	0.27	0.01 - 2.0 mg/dl
Direct Bilirubin	0.15	0.0 - 0.3 mg/dl
Indirect Bilirubin	0.12	0.0 - 0.9 mg/dl
Total Proteins	7.07	06 - 08 gm/dl
Albumin	4.31	3.8 - 5.0 gm/dl
Globulin	2.76	2.3 - 3.5 gm/dl
A/G Ratio	1.56	0.9 - 2.0 %
S.G.O.T.	27.20	0 - 35 IU/L
S.G.P.T.	38.40	0 - 45 IU/L
Alkaline Phosphatase	108.00	Male 53 - 128 IU/L Female 42 - 141 IU/L

## RENAL FUNCTION TEST

INVESTIGATIONS	RESULTS	REFERENCE RANGE
B Urea	13.80	10 - 50 mg/dl
S. Creatinine	0.91	0.5 - 1.5 mg/dl
S. Uric Acid	5.00	Male 3.5 - 7.2 mg/dl Female 2.6 - 6.0 mg/dl


## SEROLOGY

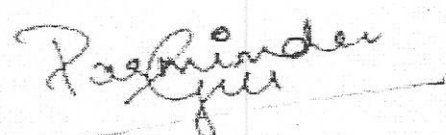
INVESTIGATIONS	RESULTS	REFERENCE RANGE
HbsAg	NEGATIVE	Negative

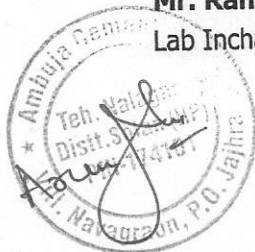
## URINE EXAMINATION

CHEMICAL EXAMINATION		
Albumin	NIL	Nil
Sugar	NIL	Nil
MICROSCOPIC EXAMINATION		
Pus cells	1-2	02-03/hpf
RBC's	Nil	Nil /hpf
Epithelial cells	0-1	Nil/hpf
Calcium oxalate crystals	Nil	Nil/hpf
Amorphous deposits	Nil	Nil/hpf
Bacteria	Nil	Nil/hpf

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

  
**Mr. Randhir Singh**  
Lab Incharge

  
**Dr. Parminder Gill**  
Consultant Microbiologist



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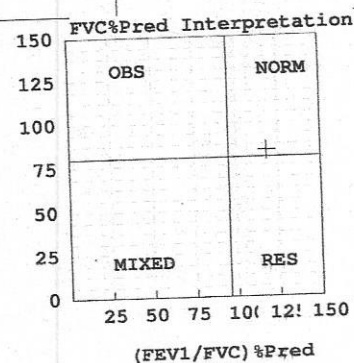
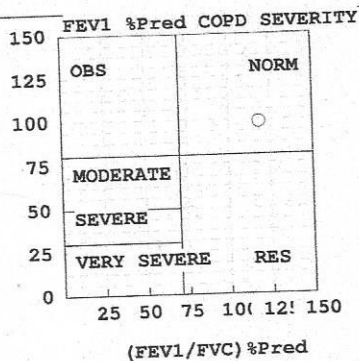
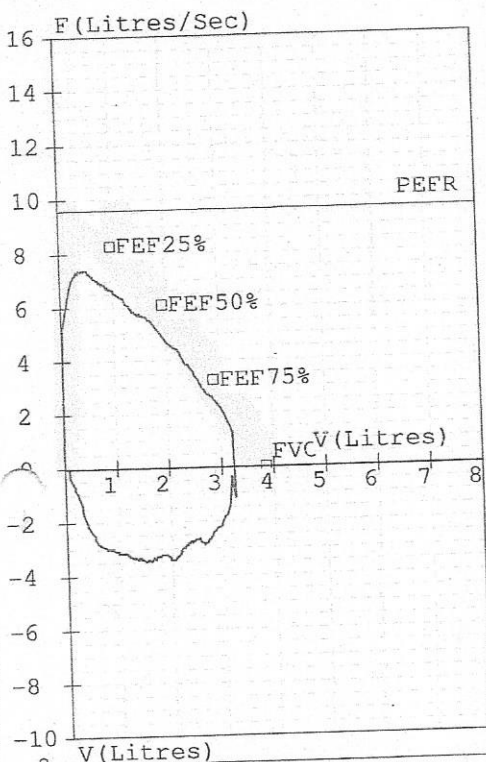
4/12

# Ambuja Cement Ltd. Unit-Nalagarh

Unit-Nalagah ,Solam ,Himachal Pradesh .

Patient: ANIL KUMAR  
Refd. By: Electrical  
Pred.Eqns: RECORDERS  
Date : 12-Apr-2019 04:33 PM

Age : 29 Years Gender : Male  
Height : 175 Cms Smoker : No  
Weight : 81 Kgs Eth. Corr: 100  
ID: 226 Temp :



## Spirometry (FVC Results)

Parameter	Pred	M.Pre	%Pred	M.Post	%Pred	%Imp
FVC (L)	03.85	03.23	084	---	---	---
FEV1 (L)	03.26	03.23	099	---	---	---
FEV1/FVC (%)	84.68	100.00	118	---	---	---
FEF25-75 (L/s)	04.53	05.19	115	---	---	---
PEFR (L/s)	09.59	07.35	077	---	---	---
FIVC (L)	---	03.17	---	---	---	---
FEV.5 (L)	---	02.68	---	---	---	---
FEV3 (L)	03.74	03.23	086	---	---	---
PIFR (L/s)	---	03.46	---	---	---	---
FEF75-85 (L/s)	---	03.15	---	---	---	---
FEF.2-1.2 (L/s)	07.89	06.79	086	---	---	---
FEF 25% (L/s)	08.28	06.79	082	---	---	---
FEF 50% (L/s)	06.08	05.55	091	---	---	---
FEF 75% (L/s)	03.24	03.68	114	---	---	---
FEV.5/FVC (%)	---	82.97	---	---	---	---
FEV3/FVC (%)	97.14	100.00	103	---	---	---
FET (Sec)	---	00.77	---	---	---	---
ExptTime (Sec)	---	00.07	---	---	---	---
Lung Age (Yrs)	029	029	100	---	---	---
FEV6 (L)	03.85	---	---	---	---	---
FIF25% (L/s)	---	02.63	---	---	---	---
FIF50% (L/s)	---	03.29	---	---	---	---
FIF75% (L/s)	---	03.09	---	---	---	---

Pre Test COPD Severity  
Test within normal limits

Pre Medication Report Indicates  
Spirometry within normal limits as (FEV1/FVC)%Pred >95 and FVC%Pred >80.



Devinder Kaul  
MBBS

5/12



# Ambuja Cement Ltd.

Nalagarh-Solan

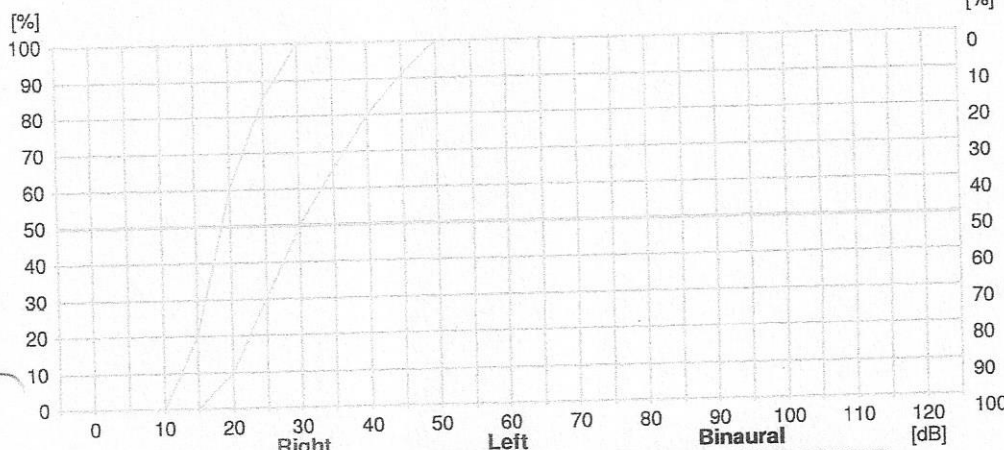
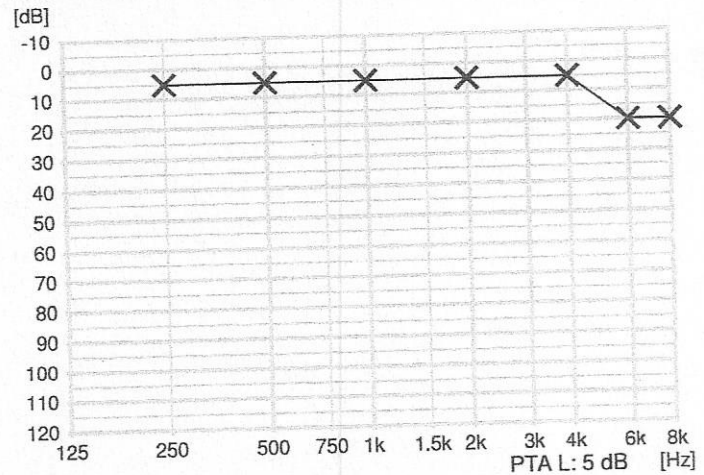
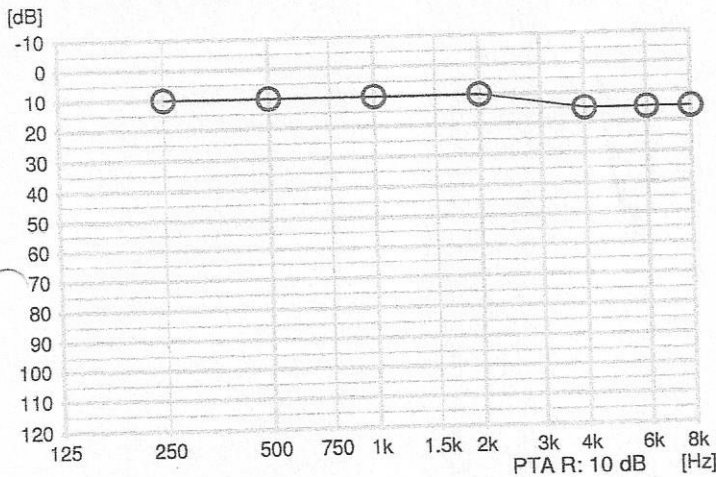
Navagram

01795266606

2007797  
KUMAR, ANIL  
6/11/1989  
4/12/2019

Tonal audiometry  
Speech test

AudioLAB



Legend	R	L
Air	○	×
Air/Masked	△	□
Bone	<	>
Bone/Masked	[	]
MCL	M	M
UCL	m	m
Free Field	∅	⊗
Free Field/Prothesis	A	A
Binaural		B
No response		↓

SRT  
WRA  
SDS  
SDS  
MCL  
UCL

	dB	Mask	dB	Mask	dB	Mask	
%	dB	Mask	%	dB	Mask	%	dB
%	dB	Mask	%	dB	Mask	%	dB
%	dB	Mask	%	dB	Mask	%	dB
	dB		dB		dB		dB
	dB		dB		dB		dB

Comments

Signature:

Date:



9/12



⑤

Babaloo Chauhan

26/m  
E-2900/0029



NO H/O HT, DM

VN → R 6/6  
U.A L 6/6

NU N. 6 BE U.A

Colour VN → WMBE

NO Acceptance of Glasses.



7/12

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NOT VALID FOR MEDICO-LEGAL PURPOSES



Film No.-34  
Department of  
Preventive and Occupational Health

Name:- Babaloo Chauhan

Gender:- Male

Age: 26 Yrs

Ref By :- Medical

Date:- 04-05-2019

Emp Code:- E290010029

**CHEST X-RAY PA VIEW**

Lung fields appear normal.  
Chest cage is within normal limit.  
Trachea is central.  
Costophrenic & Cardiophrenic angles and apices are normal.  
Lung Fields are clear with no parenchymal lung lesion seen.  
Aortic shadow is normal.  
Both hila are unremarkable.  
Cardiac size appears normal.  
Both domes are normally placed with normal contours.

**IMPRESSION:**

- **NORMAL STUDY**

**ADVICE**

To correlate clinically with other views or investigations to R/O undetected pathology or other possibility & its significance.

*Neha*

**Dr. Neha Gopal Uttam**  
Consultant Radiologist



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*8/12*





## Department of Preventive and Occupational Health

### Ambuja Cements Limited (Nalagarh)

NAME	BABLOO CHAUHAN	SEX :-	MALE
AGE	26 YRS	Date:-	03/05/2019 TO 07/05/2019
LAB. No.	35	EMP.CODE:-	E290010029

#### HAEMATOLOGY

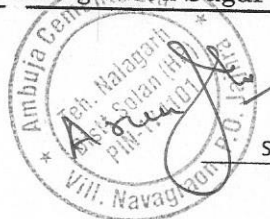
INVESTIGATIONS	RESULTS	REFERENCE RANGE
Haemoglobin	15.5	Male 13 - 18 gm/dl Female 11 - 15 gm/dl
T.L.C.	6100	4000 - 11000 /cmm
D.L.C.		
Neutrophils	46	45 - 75%
Lymphocytes	43	20 - 45%
Monocytes	7	0 - 10%
Eosinophils	4	0.00 - 06%
Basophils	0	0.00 - 3.00 %
E.S.R. (Wintrobe)	9	0-20 mm/hr
Platelets	2.38	1.5 - 4.5 Lacs
P.C.V.	43.7	Male 38 - 54 % Female 35 - 47 %
R.B.C.	5.23	3.8 - 5.8 Million
M.C.V.	92.9	80 - 95 fl
M.C.H.	29.6	27 - 32 pg
M.C.H.C.	35.4	32 - 36 gm/dl

#### LIPID PROFILE

INVESTIGATIONS	RESULTS	REFERENCE RANGE
Total Cholesterol	175.00	< 200 mg/dl
HDL Cholesterol	45.00	Male 30 - 70 mg/dl Female 35 - 90 mg/dl
LDL	96.30	74 - 130 mg/dl
VLDL	33.70	10 - 32 mg/dl
Triglycerides	168.50	Male 40 - 160 mg/dl Female 40 - 145 mg/dl
Cholesterol/HDL Ratio	3.89	3 - 5 %
LDL/HDL Ratio	2.14	1.5 - 3.5 %
Total Lipids	524.53	400 - 700 mg/dl

#### CLINICAL CHEMISTRY

INVESTIGATIONS	RESULTS	REFERENCE RANGE
Fasting Blood Sugar	98	70 - 110 mg/dl



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9/12



## Department of Preventive and Occupational Health

### LIVER FUNCTION TEST

INVESTIGATIONS	RESULTS	REFERENCE RANGE
Total Bilirubin	0.78	0.01 - 2.0 mg/dl
Direct Bilirubin	0.32	0.0 - 0.3 mg/dl
Indirect Bilirubin	0.46	0.0 - 0.9 mg/dl
Total Proteins	7.45	06 - 08 gm/dl
Albumin	4.40	3.8 - 5.0 gm/dl
Globulin	3.05	2.3 - 3.5 gm/dl
A/G Ratio	1.44	0.9 - 2.0 %
S.G.O.T.	48.10	0 - 35 IU/L
S.G.P.T.	81.10	0 - 45 IU/L
Alkaline Phosphatase	102.00	Male 53 - 128 IU/L Female 42 - 141 IU/L

### RENAL FUNCTION TEST

INVESTIGATIONS	RESULTS	REFERENCE RANGE
B. Urea	33.40	10 - 50 mg/dl
S. Creatinine	0.26	0.5 - 1.5 mg/dl
S. Uric Acid	6.10	Male 3.5 - 7.2 mg/dl Female 2.6 - 6.0 mg/dl


### SEROLOGY

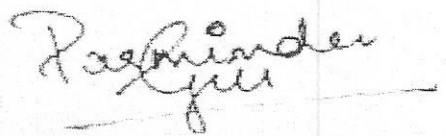
INVESTIGATIONS	RESULTS	REFERENCE RANGE
HbsAg	NEGATIVE	Negative

### URINE EXAMINATION

CHEMICAL EXAMINATION		
Albumin	NIL	Nil
Sugar	NIL	Nil
MICROSCOPIC EXAMINATION		
Pus cells	1-2	02-03/hpf
RBC's	Nil	Nil /hpf
Epithelial cells	0-1	Nil/hpf
Calcium oxalate crystals	Nil	Nil/hpf
Amorphous deposits	Nil	Nil/hpf
Bacteria	Nil	Nil/hpf

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

  
**Mr. Randhir Singh**  
Lab Incharge

  
**Dr. Parminder Gill**  
Consultant Microbiologist



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10/12

# CLINICAL CHEMISTRY

INVESTIGATIONS	RESULTS	REFERENCE RANGE
V.D.R.L.	Non-Reactive	Non-Reactive

## STOOL EXAMINATION

PHYSICAL EXAMINATION	RESULTS	REFERENCE RANGE
Colour	Brownish	
Consistency	Semi Solid	
Blood	NIL	Nil
Mucous	NIL	Nil
Parasite	NIL	Nil
Occult blood	Negative	Negative
Hanging drop (Vibrio)	Negative	Negative

MICROSCOPIC EXAMINATION		
Veg. form of protozoa	NIL	Nil
Cyst of protozoa	NIL	Nil
Ova or eggs of Helminths	NIL	Nil
Pus cells	0-1	0-1
Fat cells	NIL	Nil

## IMMUNOLOGY - SEROLOGY

WIDAL TEST (SLIDE METHOD)	
TYPHY "O"	1:40
TYPHY "H"	1:80
TYPHY "AH"	1:20
TYPHY "BH"	1:20
<b>RESULT:</b> <b>INTERPRETATION :</b> Sera from normal individuals may show agglutination in dilutions up to 1:80. Agglutination titres of 1:80 or more are significant and rising titres on repetition of test after few days is more suggestive of enteric fever.	



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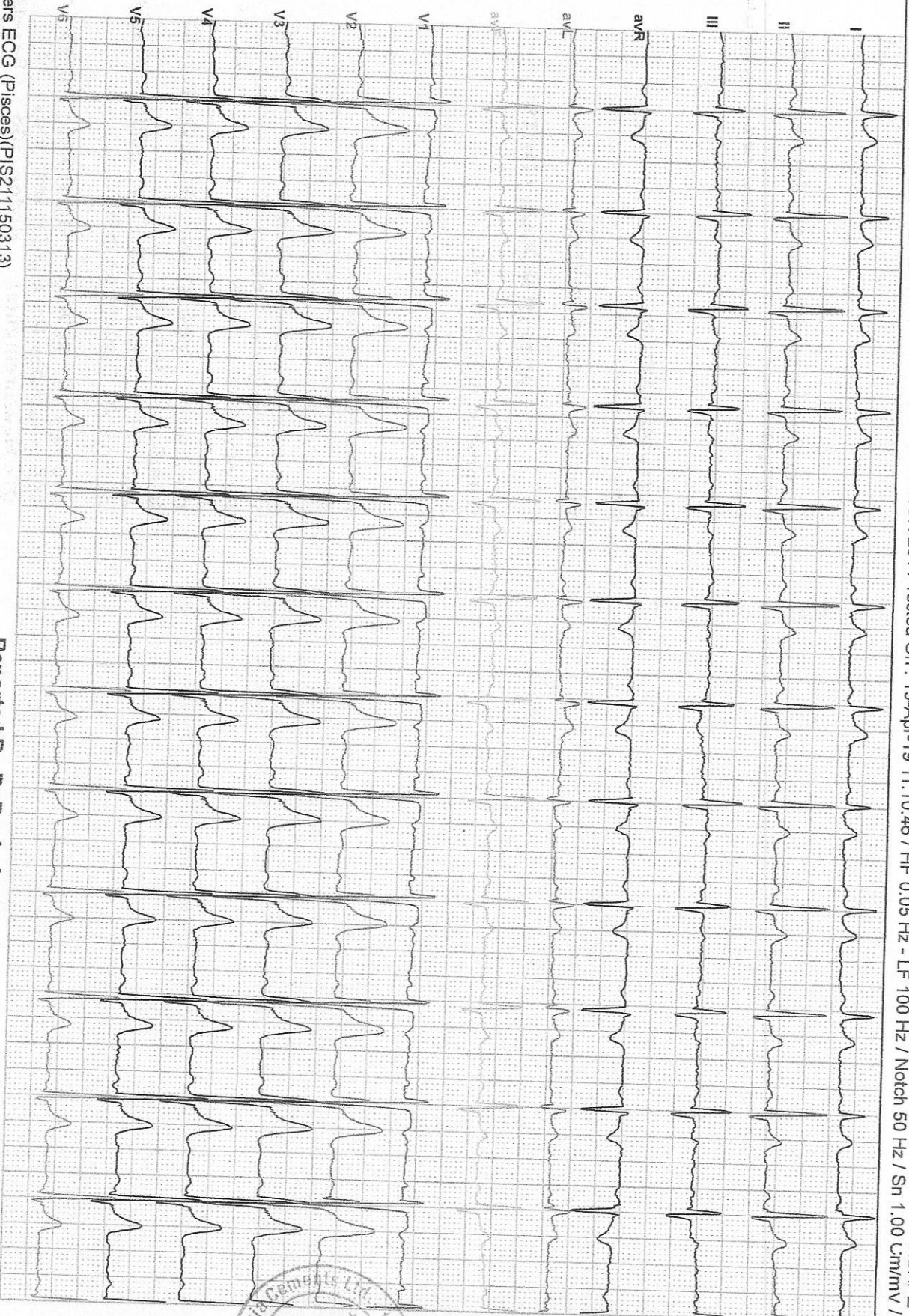


**Ambuja Cement Ltd. Unit-Nalagarh (H.P)**

**ECG**

568 / BABLOO CHAUHAN ADMIN / 26 Yrs / M / 180Cms. / 79Kgs. / Non Smoker  
Heart Rate : 76 bpm / / Reid By: ANNUAL MEDICAL EXAMINATION 201 / Tested On : 19-Apr-19 11:10:46 / HF 0.05 Hz - LF 100 Hz / Notch 50 Hz / Sn 1.00 Cm/mV / SW 25

mm/s  
AC/PL  
12/12



Allengers ECG (PISces)(PIS211150313)

Reported By:Dr.Devinder Kaul



**AMBUJA CEMENTS LIMITED (UNIT - NALAGARH)****CEMENT PRODUCTION DATA FROM APRIL 2019 TO SEPTEMBER 2019**

MONTH	CEMENT PRODUCTION (METRIC TONNES)
APRIL 2019	47601
MAY 2019	38823
JUNE 2019	42412
JULY 2019	44893
AUGUST 2019	55280
SEPTEMBER 2019	69049
TOTAL	298058

Page 1 of 1

