

BEFORE THE NATIONAL GREEN TRIBUNAL,  
PRINCIPAL BENCH, NEW DELHI

ORIGINAL APPLICATION NO. 1077 OF 2018

IN THE MATTER OF:

RESIDENTS OF SIKANDRABAD INDUSTRIAL  
AREA ..... APPLICANT

VERSUS

STATE OF U.P. & ORS. .... RESPONDENTS

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NEW DELHI  
DATE: 29.04.2019

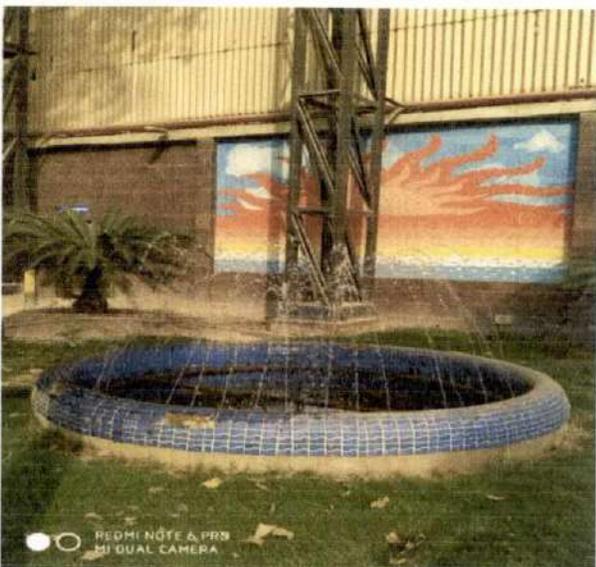
  
(PRADEEP MISRA & DALEEP DHYANI)

Counsel for UPPCB,  
138, New Lawyers Chamber,  
Supreme Court of India,  
New Delhi-110001  
(M.) 9810252518  
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**Compliance Report of OA No- 1077/2018 Dated 10.01.2019 regarding Air Pollution Caused by burning of rubber, cloth, plastic & wood for making in the area by Cement Industries at Sikandrabad, Bulandshahar.**

With reference to the order dated 10.01.2019 in the OA No- 1077/2018 passed by Hon'ble NGT. The industries located at Sikandrabad, Bulandshahar were inspected by the officer's of the Regional Office, Bulandshahar. The inspection note of the industries is as under:-

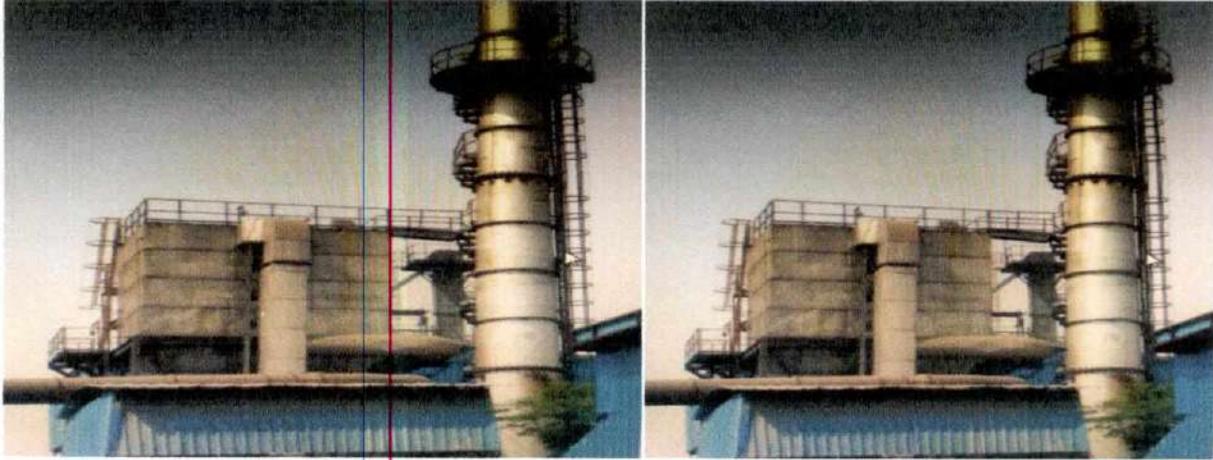
- 1- **M/s Ultratech Cement Ltd. (Grinding Unit), 19, 20 Industrial Area, Sikandrabad, Bulandshahar.** The Industry is using Clinker, Fly ash, Gypsum as raw material and producing PPC/OPC Cement. The installed capacity of Plant 2739.7 MT/Day. The emission generated from clinker silo, unloading silo, fly ash silo, cement mill, packaging sections being controlled through bag filters & bags houses. The stack connected & being monitored through approved laboratory and shown are within the prescribed norms. There is no use of any kind of fuel except diesel in D.G. sets during power cut. Photographs of Air Pollution Control System are enclosed below.



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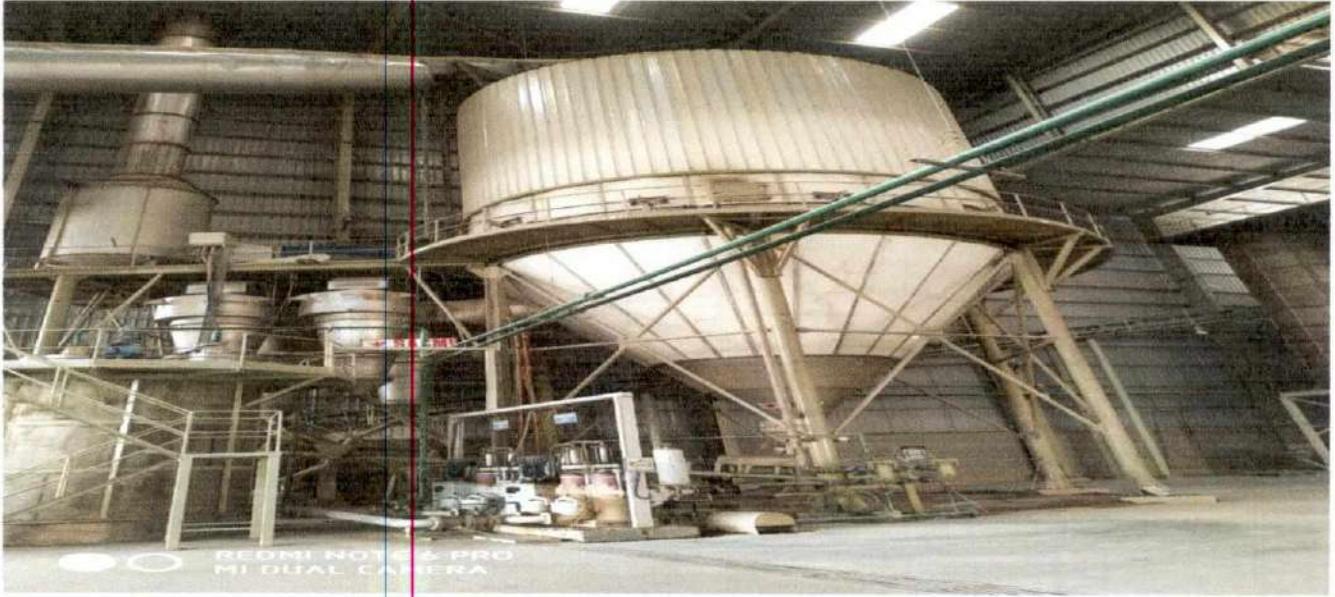
2- M/s U.P. Grinding (Unit Shree Cement Ltd), 12, Industrial Area, Sikandrabad, Bulandshahar. The Industry is using Clinker, Fly ash and Gypsum as raw material and producing PPC/OPC Cement. The installed capacity of Plant 10,000 MT/Day. The emission generated from clinker silo, unloading silo, fly ash silo, cement mill, packaging sections being controlled through bags house filter. The stack connected & being monitored through approved laboratory and shown are within the prescribed norms. There is no use of any kind of fuel expect diesel in D.G. sets during power cut. Photographs of Air Pollution Control System are enclosed below.



*[Handwritten signature]*

*[Handwritten signature]*

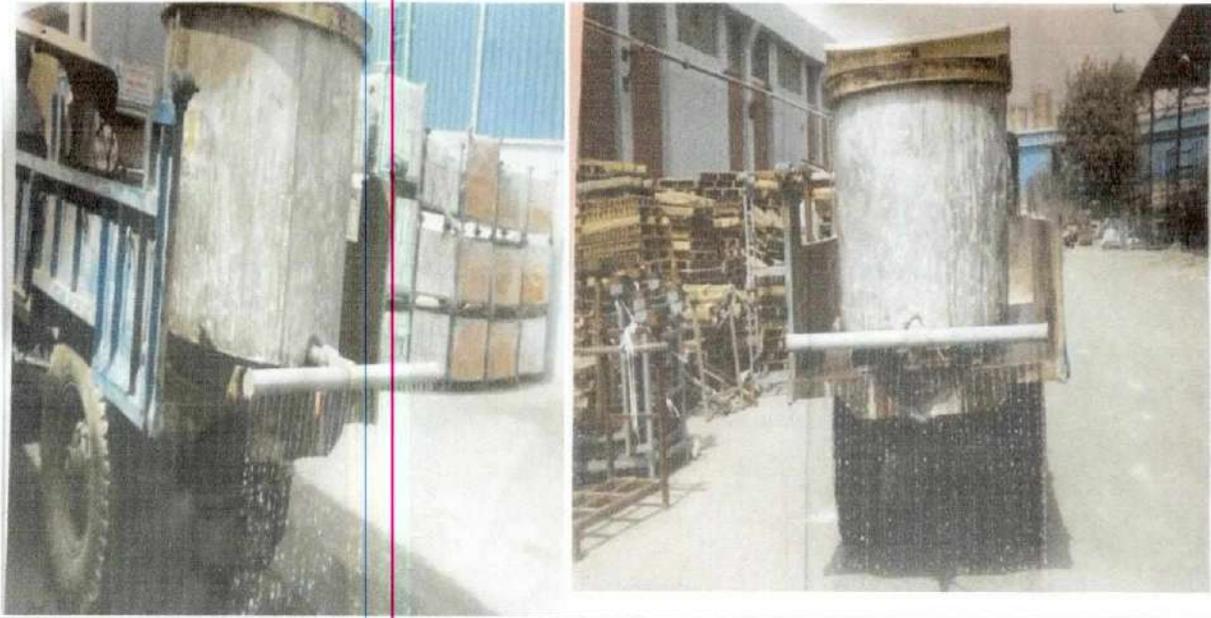
3- **M/s Shree Cement Ltd. (Aerated Autoclave Concrete Block Unit), 12, Industrial Area, Sikandrabad, Bulandshahar.** The Industry is using Cement, Fly ash, Lime, Aluminum Power, and Gypsum as raw material and producing Aerated Autoclave Concrete Block. The installed capacity of Plant 821 Cubic MT/Day. The emission generated from 16 TPH Boiler being controlled through Mechanical Dust Collector, bag filters & I.D. Fan with stack height-50 meter from ground level connected & stack emission being monitored through approved laboratory and shown are within the prescribed norms. Industry used are coal as fuel in the Boiler. Photographs of Air Pollution Control System are enclosed below.



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*[Handwritten signature]*

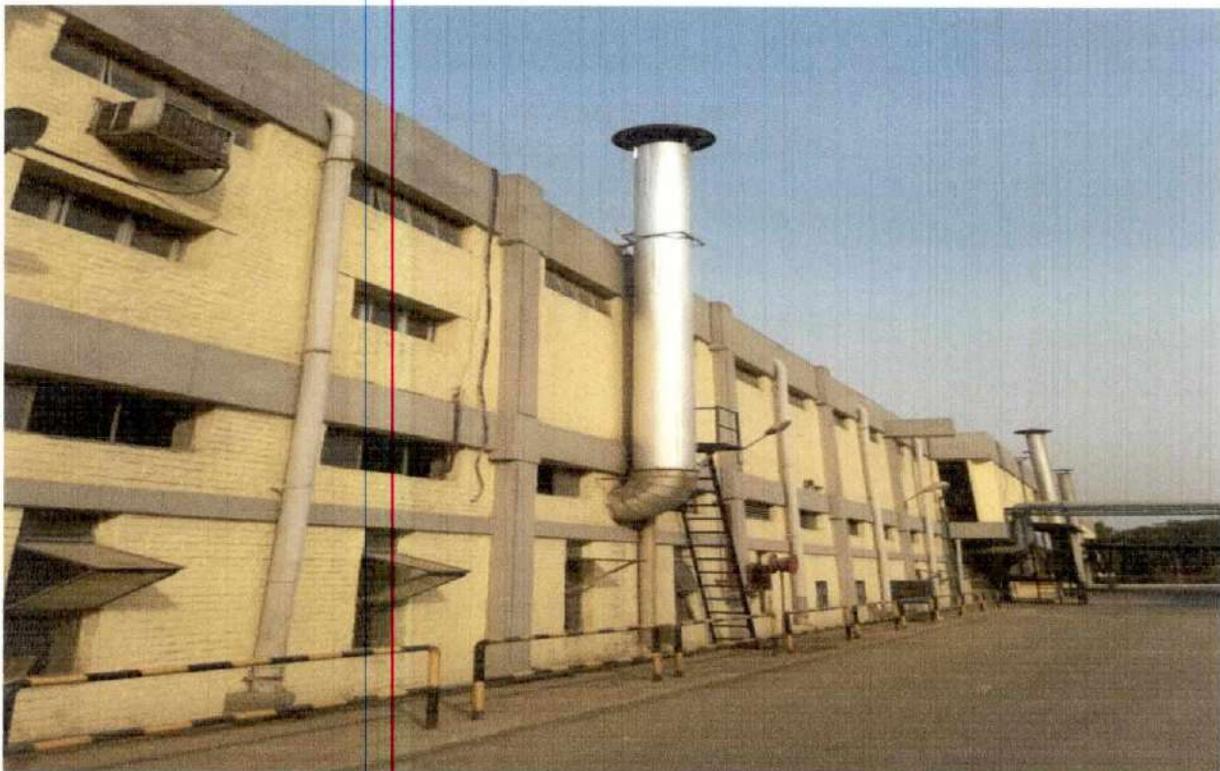
4- M/s Kajaria Ceramics Ltd., Plot No-A-27, 30, Industrial Area, Sikandrabad, Bulandshahar. The Industry is using Aluminum, Calcite Power, China Clay, Quartz, Zinc Oxide, soda Feldspar, Sodium Silicate, Ball Clay and Feldspar Powder as raw material and producing Glazed Vitrified Tiles. The installed capacity of Plant 630 MT/Day. The emission generated from Bod preparation Section being controlled through bags filter/ Dust collector. The stack connected & being monitored through approved laboratory and shown are well within the prescribed norms & Drier & Kiln being controlled through stack connected & being monitored through approved laboratory and shown are well within the prescribed norms. Industry are using Natural Gas as fuel in process. For dust emission control water spray in factory premises. Photographs of Air Pollution Control System are enclosed below.:



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- 5- **M/s Orient Bell Ltd., Plot No-8, Industrial Area, Sikandrabad, Bulandshahar.** The Industry is using Aluminum, Zircon, China Clay, Quartz, Zinc Oxide, soda Feldspar, Sodium Silicate, Ball Clay, Talk and Potash Powder as raw material and producing Ceramics Glazed Vitrified Tiles. The installed capacity of Plant 255 MT/Day. The emission generated from Spray Drier & Kiln being controlled through Bag Filter & stack connected & being monitored through approved laboratory and shown are well within the prescribed norms. Industry are using Natural Gas as fuel in process. Photographs of Air Pollution Control System are enclosed below.



6/2

9/2

Coal, Wood, Diesel, Natural Gas and LPG Gas etc. are being used as a fuel by industries operating in Sikandrabad industrial area Distt Bulandshahr. In the Sikandrabad industrial area of Distt Bulandshahr Rubber, Clothes & Plastics are being not used as fuel by the industries.

**Action taken so far against the industry.**

Beside this there are some Pyrolysis units using old Tyre as raw material for Pyrolysis process. In following 04 industries are closed due to non compliance of pollution control laws.

- 1- M/s Someshwar Alloys, Plot No-C-52, Industrial Area, Sikandabad, Distt Bulandshahar.
- 2- M/s Wave Max Payro Pvt Ltd, Plot No-E-42/43, Industrial Area, Sikandabad, Distt Bulandshahar.
- 3- M/s Shree Mohammad Islam, Plot No-R-31, Industrial Area, Sikandabad, Distt Bulandshahar.
- 4- M/s Raizada Exports, Plot No-D-6, Industrial Area, Sikandabad, Distt Bulandshahar .

After the rectifying the short comings by the industries than closure order suspended by the board conditionally of following industries .

- 1- M/s Someshwar Alloys, Plot No-C-52, Industrial Area, Sikandabad, Distt Bulandshahar.
- 2- M/s Wave Max Payro Pvt Ltd, Plot No-E-42/43, Industrial Area, Sikandabad, Distt Bulandshahar.

Remaining 02 industries M/s Shree Mohammad Islam, Plot No-R-31, Industrial Area, Sikandabad, Distt Bulandshahar & M/s Raizada Exports, Plot No-D-6, Industrial Area, Sikandabad, Distt Bulandshahar are lying closed due to non compliance. Notice has been issued to the industries to ensure the compliance of Pollution Control laws by Regional Office, U.P. Pollution Control Board, Bulandshahar. The board will keep regular watch the industries to ensure the compliance of Air & Water Pollution Control laws.

The above report submitted for to your information & necseary action please.

*25/04/19*  
(Ku. Santosh Kumar)  
Jr. Er.

*25/04/19*  
(Ashutosh Chauhan)  
Asstt. Env. Engr.

Regional Officer Sir,

CEO-4, Sir

*27.4.19*

*25-04-19*

# EKO PRO ENGINEERS PVT. LTD.

Environmental Consultants and Analytical Laboratory  
(An ISO 9001:2015 Certified Company)

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## TEST REPORT Stack Emission Analysis

Issue Date : 15/01/2019

Test Report No : EKO/EV-SE/110/100119

Issued To : Ultratech Cement Limited  
(Unit - Sikandrabad Cement Works)  
19 - 20 Industrial Area  
Sikandrabad, Distt - Bulandshahr

Sample Description : Stack Emission  
Sample Drawn on : 08/01/2019  
Sample Drawn By : EPEPL (Mr. Alok Kumar)  
Sample Received on : 10/01/2019  
Time of Sampling (Minutes) : 30  
Sampling Location : NA  
Sampling Plan & Procedure : SOP-SE/09  
Analysis Duration : 10/01/2019 To 14/01/2019  
Source of Emission : Stack Attached To Roller Press  
Capacity : -  
Operating Load : Normal  
Normal Operation Schedule : As per requirement  
Type of Stack : Metal/Circular  
Diameter of Stack (meter) : 2.5  
Height of Stack from Ground Level (meter) : 50.0  
Height of Stack from Roof Level (meter) : -  
Height of Sampling Location (meter) : 30.0 From Ground Level  
Type of Fuel Used : Electricity  
Fuel Consumed per Hour : -  
Ambient Temperature (deg.C) : 18.0  
Stack Temperature (deg.C) : 52.0  
Opacity Reading (mg/Nm<sup>3</sup>) : 14.5  
Average Velocity of Flue Emission (m/sec) : 4.68  
Average Flow Rate (lpm) : 20.5  
Control Measures ( if any ) : Bag Filter  
Remark (if any) : NA

### RESULTS

S	PARAMETER	TEST METHOD	RESULT	UNIT	Limits as per EPA*
1	Particulate Matter (PM)	IS :11255 (P-1)	15.3	mg/Nm <sup>3</sup>	30.0
2	Absolute Pressure	IS :11255 (P-1)	709.8	mmHg	-
3	Moisture Content	IS :11255 (P-1)	4.1	%	-
4	Sulphur Dioxide (as SO <sub>2</sub> )	IS :11255 (P-2)	< 5.0	mg/Nm <sup>3</sup>	-
5	Oxides of Nitrogen (as NO <sub>x</sub> )	IS :11255 (P-7)	< 2.0	mg/Nm <sup>3</sup>	-
6	Carbon monoxide (as CO)	IS :13270	< 0.2	% V/V	1.0
7	Lead (as Pb)	USEPA (P-12)	< 1.0	mg/Nm <sup>3</sup>	10.0

\* Details as per CPCB Guidelines.

\*\* End of Report \*\*

Notes :

- The results given above are related to the tested sample, for various parameters, as observed at the time of sampling. The customer asked for the above tests only.
- This test report will not be generated again, either wholly or in part, without prior written permission of the Laboratory.
- The test report will not be used for any publicity/legal purpose.
- The test samples will be disposed off after two weeks from the date of issued of test report, unless until specified by the customer.
- Responsibility of the Laboratory is limited to the invoiced amount only.

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Contact No. : 9711159210, 9711159427 E-mail : email@ekopro.in, ekoproengineers@gmail.com, website : www.ekopro.in

For Any Query Contact  
Group : F-8826344467

## TEST REPORT

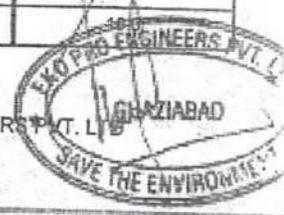
### Stack Emission Analysis

Test Report No. : EK0/EV-SE/111/100119  
Issued To : Ultratech Cement Limited  
(Unit-Sikandrabad Cement Works)  
19-20 Industrial Area  
Sikandrabad, Distt- Bulandshahr  
Issue Date : 15/01/2019

Sample Description	Stack Emission
Sample Drawn on	09/01/2019
Sample Drawn by	EPEPL(Mr. Alok Kumar)
Sample Received on	10/01/2019
Time of Sampling (minutes)	30.0
Sampling Location	NA
Sampling Plan & Procedure	SOP-SE/09
Analysis Duration	10/01/2019 To 14/01/2019
Source of Emission	Stack Attached To Cement Mill
Capacity	-
Operating Load	Normal
Normal Operation Schedule	As per requirement
Type of Stack	Metal/Circular
Diameter of Stack (meter)	1.0
Height of Stack from Ground Level (meter)	40.0
Height of Stack from Roof Level (meter)	-
Height of Sampling Location (meter)	30.0 From Ground Level
Type of Fuel Used	Electricity
Fuel Consumed per Hour	-
Ambient Temperature (°C)	18.0
Stack Temperature (°C)	46.0
Average Velocity of Fuel Emission (m/sec)	3.98
Average Flow Rate (lpm)	19.5
Control Measures (if any)	Bag Filter
Remark (if any)	NA

### RESULTS

S.No.	PARAMETER	Test Methods	Results	Units	LIMITS AS PER EPA*
1	Particulate Matter (as PM)	IS : 11255 (P-1)	15.9	mg/Nm <sup>3</sup>	30.0
2	Sulphur Dioxide (as SO <sub>2</sub> )	IS : 11255 (P-2)	<5.0	mg/Nm <sup>3</sup>	-
3	Oxides of Nitrogen (as NO <sub>x</sub> )	IS : 11255 (P-7)	<2.0	mg/Nm <sup>3</sup>	-
4	Carbon monoxide (as CO)	IS : 13270	<0.2	% V/V	1.0
5	Lead (as Pb)	USEPA (P-12)	<1.0	mg/Nm <sup>3</sup>	-



For EKO PRO ENGINEERS PVT. LTD.

Analytical Services - Analysis of Environment, Food, AYUSH, Cosmetics, Building Material, Petroleum & Material Samples in the field of Chemical, Mechanical & Biological Disciplines.  
Consulting Services - EIA, SIA, EC Compliances, EMP, Risk Analysis, Designing of ETP, APCS, RWH Systems, Environmental Audit & other studies, Ground Water & Soil Investigation.



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## TEST REPORT

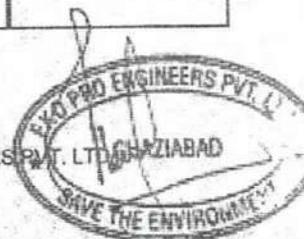
### Ambient Air Quality Monitoring

Test Report No. :	EK0/EV-AA/113/100119	Issue Date	15/01/2019
Issued To	Ultratech Cement Limited (Unit-Sikandrabad Cement Works) 19-20 Industrial Area Sikandrabad, Distt- Bulandshahr		
Sample Description	Ambient Air		
Sample Drawn on	09/01/2019 To 10/01/2019		
Sample Drawn by	EPEPL(Mr. Alok Kumar)		
Sample Received on	10/01/2019		
Sampling Location	Near STP Plant		
Sampling Plan & Procedure	SOP-AAQ/15		
Analysis Duration	10/01/2019 To 14/01/2019		
Sampling Time	24.0 Hrs.		
Ambient Temperature (deg °C)	18.0		
Average Flow Rate of SPM (m <sup>3</sup> /min)	1.1		
Average Flow Rate of Gases (lpm.)	1.0		
Weather Conditions	Clear		
Remark (if any)	NA		

## RESULTS

S.No.	PARAMETER	Test Methods	Results	Units	Limits as per EPA*
1	Particulate Matter (PM10)	IS:5182 (P-23)	86.8	µg/m <sup>3</sup>	100.0
2	Particulate Matter (PM2.5)	Eko/Chem/SOP/AAQ-01	50.3	µg/m <sup>3</sup>	60.0
3	Sulphur dioxide (as SO <sub>2</sub> )	IS:5182 (P-2)	10.5	µg/m <sup>3</sup>	80.0
4	Nitrogen Dioxide (as NO <sub>2</sub> )	IS:5182 (P-6)	28.7	µg/m <sup>3</sup>	80.0
5	Carbon Monoxide (as CO)	IS:5182 (P-10)	<1.15	mg/m <sup>3</sup>	4.0
6	Lead (as Pb)	IS:5182 (P-22)	<0.1	µg/m <sup>3</sup>	1.0
7	Nickel as Ni	Eko/Chem/SOP/AAQ-02	<15.0	ng/m <sup>3</sup>	20.0
8	Arsenic (as As)	Eko/Chem/SOP/AAQ-02	<5.0	ng/m <sup>3</sup>	6.0
9	Ozone (as O <sub>3</sub> )	IS:5182 (P-9)	<10.0	µg/m <sup>3</sup>	180.0
10	Ammonia (as NH <sub>3</sub> )	APHA 3rd Ed. Method 401	<20.0	µg/m <sup>3</sup>	400.0
11	Benzene (as C <sub>6</sub> H <sub>6</sub> )	IS:5182 (P-11)	<1.0	µg/m <sup>3</sup>	5.0
12	Benzo (alpha) Pyrene-Particulate Phase only	IS:5182 (P-12)	<1.0	ng/m <sup>3</sup>	1.0

For EKO PRO ENGINEERS PVT. LTD. GHAZIABAD



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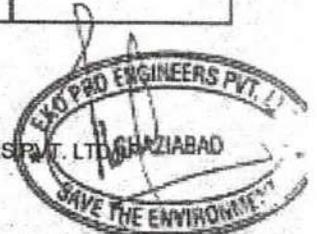
### Ambient Air Quality Monitoring

Test Report No. :	EK0/EV-AA/115/100119	Issue Date	15/01/2019
Issued To	Ultratech Cement Limited (Unit-Sikandrabad Cement Works) 19-20 Industrial Area Sikandrabad, Distl- Bulandshahr		
Sample Description	Ambient Air		
Sample Drawn on	08/01/2019 To 09/01/2019		
Sample Drawn by	EPEPL(Mr. Alok Kumar)		
Sample Received on	10/01/2019		
Sampling Location	Near CCR Building		
Sampling Plan & Procedure	SOP-AAQ/15		
Analysis Duration	10/01/2019 To 14/01/2019		
Sampling Time	24.0 Hrs.		
Ambient Temperature (deg °C)	18.0		
Average Flow Rate of SPM (m <sup>3</sup> /min)	1.1		
Average Flow Rate of Gases (lpm.)	1.0		
Weather Conditions	Clear		
Remark (if any)	NA		

## RESULTS

S.No.	PARAMETER	Test Methods	Results	Units	Limits as per EPA*
1	Particulate Matter (PM10)	IS:5182 (P-23)	95.1	µg/m <sup>3</sup>	100.0
2	Particulate Matter (PM2.5)	Eko/Chem/SOP/AAQ-01	57.4	µg/m <sup>3</sup>	60.0
3	Sulphur dioxide (as SO <sub>2</sub> )	IS:5182 (P-2)	11.4	µg/m <sup>3</sup>	80.0
4	Nitrogen Dioxide (as NO <sub>2</sub> )	IS:5182 (P-6)	26.9	µg/m <sup>3</sup>	80.0
5	Carbon Monoxide (as CO)	IS:5182 (P-10)	<1.15	mg/m <sup>3</sup>	4.0
6	Lead (as Pb)	IS:5182 (P-22)	<0.1	µg/m <sup>3</sup>	1.0
7	Nickel as Ni	Eko/Chem/SOP/AAQ-02	<15.0	ng/m <sup>3</sup>	20.0
8	Arsenic (as As)	Eko/Chem/SOP/AAQ-02	<5.0	ng/m <sup>3</sup>	6.0
9	Ozone (as O <sub>3</sub> )	IS:5182 (P-9)	<10.0	µg/m <sup>3</sup>	180.0
10	Ammonia (as NH <sub>3</sub> )	APHA 3rd Ed. Method 401	<20.0	µg/m <sup>3</sup>	400.0
11	Benzene (as C <sub>6</sub> H <sub>6</sub> )	IS:5182 (P-11)	<1.0	µg/m <sup>3</sup>	5.0
12	Benzo (alpha) Pyrine-Particulate Phase only	IS:5182 (P-12)	<1.0	ng/m <sup>3</sup>	1.0

For EKO PRO ENGINEERS PVT. LTD. GHAZIABAD



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## TEST REPORT

### Ambient Air Quality Monitoring

Test Report No. :	EK0/EV-AA/115/100119	Issue Date	15/01/2019
Issued To	Ultratech Cement Limited (Unit-Sikandrabad Cement Works) 19-20 Industrial Area Sikandrabad, Distt- Bulandshahr		
Sample Description	Ambient Air		
Sample Drawn on	08/01/2019 To 09/01/2019		
Sample Drawn by	EPEPL(Mr. Alok Kumar)		
Sample Received on	10/01/2019		
Sampling Location	Near CCR Building		
Sampling Plan & Procedure	SOP-AAQ/15		
Analysis Duration	10/01/2019 To 14/01/2019		
Sampling Time	24.0 Hrs.		
Ambient Temperature (deg °C)	18.0		
Average Flow Rate of SPM (m <sup>3</sup> /min)	1.1		
Average Flow Rate of Gases (lpm.)	1.0		
Weather Conditions	Clear		
Remark (if any)	NA		

## RESULTS

S.No.	PARAMETER	Test Methods	Results	Units	Limits as per EPA*
1	Particulate Matter (PM10)	IS:5182 (P-23)	95.1	µg/m <sup>3</sup>	100.0
2	Particulate Matter (PM2.5)	Eko/Chem/SOP/AAQ-01	57.4	µg/m <sup>3</sup>	60.0
3	Sulphur dioxide (as SO <sub>2</sub> )	IS:5182 (P-2)	11.4	µg/m <sup>3</sup>	80.0
4	Nitrogen Dioxide (as NO <sub>2</sub> )	IS:5182 (P-6)	28.9	µg/m <sup>3</sup>	80.0
5	Carbon Monoxide (as CO)	IS:5182 (P-10)	<1.15	mg/m <sup>3</sup>	4.0
6	Lead (as Pb)	IS:5182 (P-22)	<0.1	µg/m <sup>3</sup>	1.0
7	Nickel as Ni	Eko/Chem/SOP/AAQ-02	<15.0	ng/m <sup>3</sup>	20.0
8	Arsenic (as As)	Eko/Chem/SOP/AAQ-02	<5.0	ng/m <sup>3</sup>	6.0
9	Ozone (as O <sub>3</sub> )	IS:5182 (P-9)	<10.0	µg/m <sup>3</sup>	180.0
10	Ammonia (as NH <sub>3</sub> )	APHA 3rd Ed. Method 401	<20.0	µg/m <sup>3</sup>	400.0
11	Benzene (as C <sub>6</sub> H <sub>6</sub> )	IS:5182 (P-11)	<1.0	µg/m <sup>3</sup>	5.0
12	Benzo (alpha) Pyrene-Particulate Phase only	IS:5182 (P-12)	<1.0	ng/m <sup>3</sup>	1.0

For EKO PRO ENGINEERS PVT. LTD. GHAZIABAD



Authorized Signatory

Analytical Services - Analysis of Environment, Food, AYUSH, Cosmetics, Building Material, Petroleum & Material Samples in the field of Chemical, Mechanical & Biological Disciplines.  
 Consulting Services - EIA, SIA, EC Compliances, DMP, Risk Analysis, Designing of ETP, APCS, RWH Systems, Environmental Audit & other studies, Ground Water & Surface Water Monitoring.



Contact : +91 - 9810243870

# EKO PRO ENGINEERS PVT. LTD.

Environmental Consultants and Analytical Laboratory

(An ISO 9001:2008 Certified Company)

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Contact No. : 9711159210, 9711159427 E-mail : email@ekopro.in, ekoproengineers@gmail.com, website : www.ekopro.in

For Any Query Contact  
Group : F-8826344467

## TEST REPORT

### Noise Monitoring

Test Report No. : Issued To	EKO/EV-NM/111/100119 Ultratech Cement Limited (Unit-Sikandrabad Cement Works) 19-20 Industrial Area Sikandrabad, Distt- Bulandshahr	Issue Date	12/01/2019
Sample Description	Ambient Noise (Day Time)		
Sample Drawn on	09/01/2019		
Sample Drawn by	EPEPL(Mr. Alök Kumar)		
Sample Received on	10/01/2019		
Sampling Location	Near CCR Building		
Sampling Plan & Procedure	SOP-N/01		
Environmental Condition	Normal		
Analysis Duration	10/01/2019 To 11/01/2019		
Remark (if any)	NA		

## RESULTS

S.No.	PARAMETER	Test Methods	Results	Units	LIMITS AS PER EPA *
1	Leq	Eko/Chem/SOP/S/N-01	69.5	dB (A)	75.0

\* Details as per EPA -1986 Ambient Noise Quality Standards, Schedule-III, (Rule-3)

#### Notes :

- The results given above are related to the tested sample, as received & mentioned parameters.  
The customer asked for the above tests only.
- This test report will not be generated again, either wholly or in part, without written permission of the Laboratory.
- This test report will not be use for any publicity/legal purpose.
- Responsibility of the Laboratory is limited to the invoiced amount only.

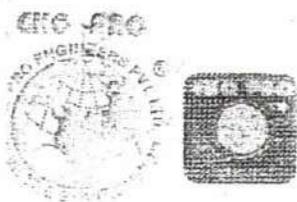
\*\*End of Report\*\*

For EKO PRO ENGINEERS PVT. LTD.



Authorized Signatory





Office & Laboratory : 85/41, South Side of G. T. Road, UPSIDC Industrial Area, Ghazipur - 20, 036 (Delhi/NCR) INDIA.  
 Contact No. : 9711159270, 9711159427, 813811163422; Whatsapp No. : 9711163422; E-mail : ekopro@ekopro.in, ekoproengineers@gmail.com; website : www.ekopro.in

**TEST REPORT**  
**Noise Monitoring**

Report No : **EKO/EV-NM/115/020119**

Issue Date : **05/01/2019**

id To : **U.P. GRINDING UNIT (A UNIT OF SHREE CEMENT LTD.)**  
**SIKANDRABAD**  
**DISTT - BULANDSHAHR**  
**(U.P.)**

ole Description : **Ambient Noise**  
 ole Drawn on : **31/12/2018 To 01/01/2019**  
 ole Drawn by : **EPEPL (Mr. Alok Kumar)**  
 ole Received on : **02/01/2019**  
 oling Plan & Procedure : **SOP-N/01**  
 onmental Condition : **Normal**  
 isis Duration : **02/01/2019 To 04/01/2019**  
 rk (if any) : **NA**

**RESULTS**

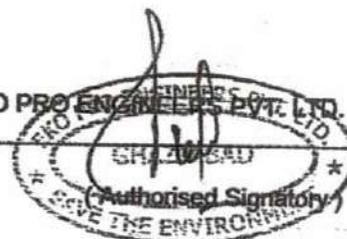
PARAMETER	TEST METHOD	Sampling Location :			UNIT	LIMITS AS PER ENVIRONMENT (PROTECTION) ACT*
		Plant Boundary Near Main Gate	Plant Boundary Near CCR Building	Plant Boundary Towards Rajarampur a village		
Leq ( Day time )	SOP-N/94/01	63.8	60.2	56.9	dB (A)	75.0
Leq ( Night time )	SOP-N/94/01	50.4	46.8	45.6	dB (A)	70.0

imits as per EPA-1986 Ambient Noise Quality Standards, Schedule-III, (Rule-3).

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

results given above are related to the observed values at the time of monitoring. The customer asked for above tests only.  
 test report will not be generated again, either wholly or in part, without prior written permission of the Laboratory.  
 test report will not be used for any publicity/legal purpose.  
 ontsibility of the Laboratory is limited to the invoiced amount only.

For EKO PRO ENGINEERS PVT. LTD.





Office & Laboratory : 32/44, South Side of G. T. Road, UPSIDC Industrial Area, Ghazabad - 201 009 (Delhi-NCR) INDIA.  
Contact No. : 9711156216, 9711156427, Sk/Sr/Whatsapp No. : 9711160422; E-mail: eko@shop.ckl; shop@engneers@shop.ckl.com, website: www.ekopro.in

**TEST REPORT****Ambient Air Quality Analysis**

Report No : EKO/EV-AA/110/020119

Issue Date : 07/01/2019

Tested To : U.P. GRINDING UNIT (A UNIT OF SHREE CEMENT LTD.)  
SIKANDRABAD  
DISTT - BULANDSHAHAR  
(U.P.)

Sample Description : Ambient Air  
Sample Drawn on : 31/12/2018 To 01/01/2019  
Sample Drawn By : EPEPL (Mr. Alok Kumar)  
Sample Received on : 02/01/2019  
Sample Plan & Procedure : SOP-AAQ/15  
Analysis Duration : 02/01/2019 To 05/01/2019  
Sampling Time : 24 Hrs.  
Ambient Temperature (deg°C) : 16.0  
Average Flow Rate of SPM (m<sup>3</sup>/min.) : 1.1  
Average Flow Rate of Gases (lpm.) : 1.0  
Weather Conditions : Clear  
Remarks (if any) : NA

**RESULTS**

Sl. No.	PARAMETER	TEST METHOD	Sampling Location			UNIT	LIMITS AS PER EPA*
			Plant Boundary Near Main Gate Area	Plant Boundary Towards CCR Building	Plant Boundary Towards Rajarampura village		
	Particulate Matter (PM <sub>10</sub> )	IS : 5182 (P-23)	96.8	92.1	89.7	µg/m <sup>3</sup>	100.0
	Particulate Matter (PM <sub>2.5</sub> )	SOP-AAQ/89/01	55.1	52.8	48.6	µg/m <sup>3</sup>	60.0
	Sulphur dioxide (as SO <sub>2</sub> )	IS : 5182 (P-2) Improved West & Geake	10.6	8.4	7.8	µg/m <sup>3</sup>	80.0
	Nitrogen dioxide (as NO <sub>2</sub> )	IS : 5182 (P-6)	26.2	23.1	20.4	µg/m <sup>3</sup>	80.0

\*Details as per EPA-1986 National Ambient Air Quality Standards, date 18.11.2009.

\*\*End of Report\*\*

Notes :  
The results given above are related to the tested sample, for various parameters, as observed at the time of Sampling.  
The customer asked for the above tests only.  
This test report will not be generated again, either wholly or in part, without prior written permission of the Laboratory.  
The test report will not be used for any publicity/legal purpose.  
The test samples will be disposed off after two weeks from the date of issue of test report, unless until specified by the customer.  
Responsibility of the Laboratory is limited to the invoiced amount only.

For EKO PRO ENGINEERS PVT. LTD.  
GHAZABAD  
(Authorized Signatory)  
\* SAVE THE ENVIRONMENT \*

Page 1 of 1





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Contact No. : 9711155210, 9711159427, SMS/Whatsapp No. : 9711163422, E-mail : email@ekopro.in, ekoproengineers@gmail.com, website : www.ekopro.in

## TEST REPORT

### Ambient Air Quality Analysis

Test Report No : EKO/EV-AA/119/300319

Issue Date : 04/04/2019

Issued To : U.P. GRINDING UNIT (A UNIT OF SHREE CEMENT LTD.)  
SIKANDRABAD  
DISTT - BULANDSHAHAR  
(U.P.)

Sample Description : Ambient Air  
Sample Drawn on : 29/03/2019 To 30/03/2019  
Sample Drawn By : EPEPL (Mr. Alok Kumar)  
Sample Retrieved on : 30/03/2019  
Sampling Plan & Procedure : SOP-AAQ/15  
Analysis Duration : 30/03/2019 To 03/04/2019  
Sampling Time : 24 Hrs.  
Ambient Temperature (deg°C) : 29.0  
Average Flow Rate of SPM (m<sup>3</sup>/min.) : 1.1  
Average Flow Rate of Gases (lpm.) : 1.0  
Weather Conditions : Clear  
Remark (if any) : NA

### RESULTS

S.No.	PARAMETER	TEST METHOD	Sampling Location			UNIT	LIMITS AS PER EPA*
			Plant Boundary Near Main Gate Area	Plant Boundary Towards CCR Building	Plant Boundary Towards Rajarampura village		
1	Particulate Matter (PM <sub>10</sub> )	IS : 5182 (P-23)	65.8	61.3	60.7	µg/m <sup>3</sup>	100.0
2	Particulate Matter (PM <sub>2.5</sub> )	SOP-AAQ/89/01	49.5	45.2	41.8	µg/m <sup>3</sup>	60.0
3	Sulphur dioxide (as SO <sub>2</sub> )	IS : 5182 (P-2) Improved West & Geake	11.2	10.5	9.7	µg/m <sup>3</sup>	80.0
4	Nitrogen dioxide (as NO <sub>2</sub> )	IS : 5182 (P-6)	24.6	20.7	18.3	µg/m <sup>3</sup>	80.0

\* Details as per EPA-1986 National Ambient Air Quality Standards, date 18.11.2009.

\*\*End of Report\*\*

#### Notes :

- The results given above are related to the tested sample, for various parameters, as observed at the time of Sampling. The customer asked for the above tests only.
- This test report will not be generated again, either wholly or in part, without prior written permission of the Laboratory.
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Contact No. : 9711159210, 9711159427, SMS/Whatsapp No. : 9711163422, E-mail : email@ekopro.in, ekoproengineers@gmail.com, website : www.ekopro.in

## TEST REPORT Noise Monitoring

Test Report No : EKO/EV-NM/128/300319

Issue Date : 04/04/2019

Issued To : U.P. GRINDING UNIT (A UNIT OF SHREE CEMENT LTD.)  
SIKANDRABAD  
DISTT - BULANSHAHAR  
(U.P.)

Sample Description : Ambient Noise  
Sample Drawn on : 29/03/2019 To 30/03/2019  
Sample Drawn by : EPEPL (Mr. Alok Kumar)  
Sample Received on : 30/03/2019  
Sampling Plan & Procedure : SOP-N/01  
Environmental Condition : Normal  
Analysis Duration : 30/03/2019 To 03/04/2019  
Remark (if any) : NA

### RESULTS

S.No.	PARAMETER	TEST METHOD	Sampling Location :			UNIT	LIMITS AS PER ENVIRONMENT (PROTECTION) ACT*
			Plant Boundary Near Main Gate	Plant Boundary Near CCR Building	Plant Boundary Towards Rajarampur a village		
1	Leq. ( Day time )	SOP-N/94/01	62.5	59.4	57.8	dB (A)	75.0
	Leq ( Night time )	SOP-N/94/01	51.3	45.8	43.8	dB (A)	70.0

\* Details as per EPA-1986 Ambient Noise Quality Standards, Schedule-III, (Rule-3).

\*\* End of Report \*\*

#### Notes :

- The results given above are related to the observed values at the time of monitoring. The customer asked for the above tests only.
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For EKO PRO ENGINEERS PVT. LTD.





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Contact : +91 - 9810243870

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### TEST REPORT

For Any Query Contact  
Group : A-9711159337

#### Stack Emission Analysis

Test Report No. : EK0/EV-SE/128/300319  
Issued To

Issue Date 04/04/2019

U.P Grinding Unit (A Unit of Shree Cement Ltd.)  
Sikandrabad  
Distt- Bulandshar  
U.P.

Sample Description  
Sample Drawn on  
Sample Drawn by  
Sample Received on  
Time of Sampling (minutes)  
Sampling Location  
Sampling Plan & Procedure  
Analysis Duration  
Source of Emission  
Capacity  
Operating Load  
Normal Operation Schedule  
Type of Stack  
Diameter of Stack (meter)  
Height of Stack from Ground Level (meter)  
Height of Stack from Roof Level (meter)  
Height of Sampling Location (meter)  
Type of Fuel Used  
Fuel Consumed per Hour  
Ambient Temperature (°C)  
Stack Temperature (°C)  
Average Velocity of Fuel Emission (m/sec)  
Average Flow Rate (lpm)  
Control Measures (if any)  
Remark (if any)

Stack Emission  
29/03/2019  
EPEPL (Mr. Alok Kumar)  
30/03/2019  
30.0  
NA  
SOP-W/66  
30/03/2019 To 03/04/2019  
Stack Attached To Boiler Bag Filter  
16.0 Ton  
Normal  
As per requirement  
Metal/Circular  
1.4  
50.0  
40.0  
22.3 From Ground Level  
Coal  
-  
29.0  
90.0  
5.2  
20.7  
Bag House  
NA

### RESULTS

S.No.	PARAMETER	Test Methods	Results	Units	LIMITS AS PER EPA*
1	PM (at 12% CO2 Correction)	IS : 11255 (P-1)	31.6	mg/Nm <sup>3</sup>	50.0
2	Sulphur Dioxide (as SO2)	IS : 11255 (P-2)	236.2	mg/Nm <sup>3</sup>	-
3	Oxides of Nitrogen (as NOx)	IS : 11255 (P-7)	64.8	mg/Nm <sup>3</sup>	-
4	Moisture Content	Gravimetric Method	3.8	% wt/v	-



For EKO PRO ENGINEERS PVT. LTD

Analytical Services - Analysis of Environment, Food, AYUSH, Cosmetics, Building Material, Petroleum & Material Samples in Biological, Chemical, Environmental, Mechanical & NDT Disciplines.  
Consulting Services - EIA, SIA, EG Compliances, Consultancy for NOC from CGWA, Hydrogeological Studies, Environmental Audit & other studies, Ground Water Bore No. 1/2/3/4/5/6/7/8/9/10/11/12/13/14/15/16/17/18/19/20/21/22/23/24/25/26/27/28/29/30/31/32/33/34/35/36/37/38/39/40/41/42/43/44/45/46/47/48/49/50/51/52/53/54/55/56/57/58/59/60/61/62/63/64/65/66/67/68/69/70/71/72/73/74/75/76/77/78/79/80/81/82/83/84/85/86/87/88/89/90/91/92/93/94/95/96/97/98/99/100/101/102/103/104/105/106/107/108/109/110/111/112/113/114/115/116/117/118/119/120/121/122/123/124/125/126/127/128/129/130/131/132/133/134/135/136/137/138/139/140/141/142/143/144/145/146/147/148/149/150/151/152/153/154/155/156/157/158/159/160/161/162/163/164/165/166/167/168/169/170/171/172/173/174/175/176/177/178/179/180/181/182/183/184/185/186/187/188/189/190/191/192/193/194/195/196/197/198/199/200/201/202/203/204/205/206/207/208/209/210/211/212/213/214/215/216/217/218/219/220/221/222/223/224/225/226/227/228/229/230/231/232/233/234/235/236/237/238/239/240/241/242/243/244/245/246/247/248/249/250/251/252/253/254/255/256/257/258/259/260/261/262/263/264/265/266/267/268/269/270/271/272/273/274/275/276/277/278/279/280/281/282/283/284/285/286/287/288/289/290/291/292/293/294/295/296/297/298/299/300/301/302/303/304/305/306/307/308/309/310/311/312/313/314/315/316/317/318/319/320/321/322/323/324/325/326/327/328/329/330/331/332/333/334/335/336/337/338/339/340/341/342/343/344/345/346/347/348/349/350/351/352/353/354/355/356/357/358/359/360/361/362/363/364/365/366/367/368/369/370/371/372/373/374/375/376/377/378/379/380/381/382/383/384/385/386/387/388/389/390/391/392/393/394/395/396/397/398/399/400/401/402/403/404/405/406/407/408/409/410/411/412/413/414/415/416/417/418/419/420/421/422/423/424/425/426/427/428/429/430/431/432/433/434/435/436/437/438/439/440/441/442/443/444/445/446/447/448/449/450/451/452/453/454/455/456/457/458/459/460/461/462/463/464/465/466/467/468/469/470/471/472/473/474/475/476/477/478/479/480/481/482/483/484/485/486/487/488/489/490/491/492/493/494/495/496/497/498/499/500/501/502/503/504/505/506/507/508/509/510/511/512/513/514/515/516/517/518/519/520/521/522/523/524/525/526/527/528/529/530/531/532/533/534/535/536/537/538/539/540/541/542/543/544/545/546/547/548/549/550/551/552/553/554/555/556/557/558/559/560/561/562/563/564/565/566/567/568/569/570/571/572/573/574/575/576/577/578/579/580/581/582/583/584/585/586/587/588/589/590/591/592/593/594/595/596/597/598/599/600/601/602/603/604/605/606/607/608/609/610/611/612/613/614/615/616/617/618/619/620/621/622/623/624/625/626/627/628/629/630/631/632/633/634/635/636/637/638/639/640/641/642/643/644/645/646/647/648/649/650/651/652/653/654/655/656/657/658/659/660/661/662/663/664/665/666/667/668/669/670/671/672/673/674/675/676/677/678/679/680/681/682/683/684/685/686/687/688/689/690/691/692/693/694/695/696/697/698/699/700/701/702/703/704/705/706/707/708/709/710/711/712/713/714/715/716/717/718/719/720/721/722/723/724/725/726/727/728/729/730/731/732/733/734/735/736/737/738/739/740/741/742/743/744/745/746/747/748/749/750/751/752/753/754/755/756/757/758/759/760/761/762/763/764/765/766/767/768/769/770/771/772/773/774/775/776/777/778/779/780/781/782/783/784/785/786/787/788/789/790/791/792/793/794/795/796/797/798/799/800/801/802/803/804/805/806/807/808/809/810/811/812/813/814/815/816/817/818/819/820/821/822/823/824/825/826/827/828/829/830/831/832/833/834/835/836/837/838/839/840/841/842/843/844/845/846/847/848/849/850/851/852/853/854/855/856/857/858/859/860/861/862/863/864/865/866/867/868/869/870/871/872/873/874/875/876/877/878/879/880/881/882/883/884/885/886/887/888/889/890/891/892/893/894/895/896/897/898/899/900/901/902/903/904/905/906/907/908/909/910/911/912/913/914/915/916/917/918/919/920/921/922/923/924/925/926/927/928/929/930/931/932/933/934/935/936/937/938/939/940/941/942/943/944/945/946/947/948/949/950/951/952/953/954/955/956/957/958/959/960/961/962/963/964/965/966/967/968/969/970/971/972/973/974/975/976/977/978/979/980/981/982/983/984/985/986/987/988/989/990/991/992/993/994/995/996/997/998/999/1000/1001/1002/1003/1004/1005/1006/1007/1008/1009/1010/1011/1012/1013/1014/1015/1016/1017/1018/1019/1020/1021/1022/1023/1024/1025/1026/1027/1028/1029/1030/1031/1032/1033/1034/1035/1036/1037/1038/1039/1040/1041/1042/1043/1044/1045/1046/1047/1048/1049/1050/1051/1052/1053/1054/1055/1056/1057/1058/1059/1060/1061/1062/1063/1064/1065/1066/1067/1068/1069/1070/1071/1072/1073/1074/1075/1076/1077/1078/1079/1080/1081/1082/1083/1084/1085/1086/1087/1088/1089/1090/1091/1092/1093/1094/1095/1096/1097/1098/1099/1100/1101/1102/1103/1104/1105/1106/1107/1108/1109/1110/1111/1112/1113/1114/1115/1116/1117/1118/1119/1120/1121/1122/1123/1124/1125/1126/1127/1128/1129/1130/1131/1132/1133/1134/1135/1136/1137/1138/1139/1140/1141/1142/1143/1144/1145/1146/1147/1148/1149/1150/1151/1152/1153/1154/1155/1156/1157/1158/1159/1160/1161/1162/1163/1164/1165/1166/1167/1168/1169/1170/1171/1172/1173/1174/1175/1176/1177/1178/1179/1180/1181/1182/1183/1184/1185/1186/1187/1188/1189/1190/1191/1192/1193/1194/1195/1196/1197/1198/1199/1200/1201/1202/1203/1204/1205/1206/1207/1208/1209/1210/1211/1212/1213/1214/1215/1216/1217/1218/1219/1220/1221/12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# Newcon Consultants & Laboratories

An ISO 9001 : 2015, ISO 14001 : 2015, OHSAS 18001 : 2007 Certified Laboratory  
 NABL ISO/IEC 17025 : 2005 (Testing, Cert. No. TC-5526) Accredited Laboratory,  
 Recognised with MOEFCC & U.P. Pollution Control Board



ISO 9001/14001/OHSAS 18001  
 Reg. No. R191/7381

Website : www.newconlab.in

## TEST CERTIFICATE

### AMBIENT AIR QUALITY MONITORING AND ANALYSIS REPORT

Page 1 Of 1

TEST REPORT NO : NCL/KCSB/0008/25/09/2018

DATE OF REPORT : 27/09/2018

Name And Address Of Customer

KAJARIA CERAMICS LTD.  
 PLOT NO-A-27-30, UPSIDC INDUSTRIAL AREA, SIKANDRABAD,  
 BULANDSHAHR, U.P., INDIA

#### SAMPLING DETAIL

Analysis Start Date 25/09/2018  
 Date Of Sampling 24/09/2018  
 Time Of Sampling 14:50 24/09/2018 To 22:50 24/09/2018  
 Sampling Location NEAR MID AREA OF GVT PLANT  
 Sampling Protocol IS:5182(PART-5) AS PER CPCB GUIDELINES  
 Sample Flow Rate For SPM(Average) 1.120 mtr<sup>3</sup>/min  
 Sample Flow Rate For Gas 1.0 LPM  
 Equipments Used RDS APM-460-2248-DTK-2017, .

Analysis End Date 27/09/2018  
 Sampling Done By NCL  
 Sampling Machine 1.5 mtr  
 Placed At Height (From Ground)  
 Sample Duration 8-Hrs

#### PHYSICAL OBSERVATIONS

Ambient Temperature 29°C  
 Weather Condition Cloudy  
 Wind Direction West To East

#### TEST RESULT

S.No.	Parameter	Unit	Protocol	Result	Specification/ Limit (As Per CPCB)
1	Particulate Matters (Size Less Than 10µm) (PM <sub>10</sub> )	µg/m <sup>3</sup>	IS:5182 (Part 23)	72	For 24 Hrs=100
2	Sulphur Dioxide (SO <sub>2</sub> )	µg/m <sup>3</sup>	IS:5182 (Part 2)	14.0	For 24 hrs= 80
3	Carbon Monoxide (CO)	mg/m <sup>3</sup>	IS:5182 (Part 10)	0.21	For 08 Hrs= 02 For 01 Hrs=04
4	Nitrogen Dioxide (NO <sub>2</sub> )	µg/m <sup>3</sup>	IS:5182 (Part 6)	28.0	For 24 hrs=80

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

FOR NEWCON CONSULTANTS & LABORATORIES

INTEKUN KHAN  
 M.Sc. (Science)

CHECKED BY

Format no NCL/QSP-28/TC-AAQ/FMT-02 Rev No 1 Date 18.07.2011

PREPARED BY

TECHNICAL MANAGER  
 AUTHORIZED SIGNATORY

NOTE : 1. The Results reported above pertains to the Tested parameters only. Endorsement of the same is neither inferred nor implied. 2. All disputes subject to GHAZIABAD JURISDICTION. 3. The Report shall not be reproduced except in full without the permission of CHIEF ANALYST. 4. Our liability is limited to invoiced value only.

Laboratory : 8th K.M. Stone, NH-58, Delhi Meerut Road, Merta (Opp. Manan Dham Mandir) GHAZIABAD - 201 003 (U.P.) Telefax : (0120) 2675225. Mobile : 9810430045



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IAS-ANZ



ISO 9001/14001/OHSAS 18001  
Reg. No. R191/7381

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## TEST CERTIFICATE

### AMBIENT AIR QUALITY MONITORING AND ANALYSIS REPORT

TEST REPORT NO : NCL/KCSB/0008/25/09/2018

Page 1 Of 1

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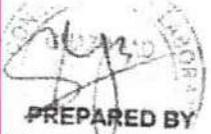
\*\*\*\* End Of Report\*\*\*\*

FOR NEWCON CONSULTANTS & LABORATORIES

INTEKHAD KHAN  
M.Sc. (Environmental Science)

CHECKED BY

Format no NCL/QSP-28/TC-AAQ/FMT-02 Rev No 1 Date 18.07.2011



PREPARED BY



AUTHORIZED SIGNATORY

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**EKO PRO ENGINEERS PVT. LTD.**

Environmental Consultants and Analytical Laboratory

(An ISO 9001:2015 Certified Company)

Office & Laboratory : 32/41, South Side of G. T. Road, UPSIDC Industrial Area, Ghaziabad - 201 009 (Delhi-NCR) INDIA.  
 Contact No. : 9711159210, 9711159427, SMS/Whatsapp No. : 9711163422; E-mail : email@ekopro.in, ekoproengineers@gmail.com, website : www.ekopro.in

For Any Query Contact  
 Group : D-8626344469

**TEST REPORT****Stack Emission Analysis**

Test Report No. : EK0/EV-SE/118/211218

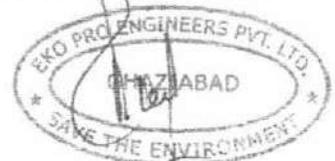
Issue Date : 25/12/2018

Issued To : ORIENT BELL LIMITED  
 (FORMERLY : ORIENT CERAMICS & INDUSTRIES LTD.)  
 8, INDUSTRIAL AREA  
 SIKANDRABAD  
 U.P.

Sample Description : Stack Emission  
 Sample Drawn on : 20/12/2018  
 Sample Drawn by : EPEPL(Mr. Rahul Kashyap)  
 Sample Received on : 21/12/2018  
 Time of Sampling (minutes) : 30.0  
 Sampling Location : NA  
 Sampling Plan & Procedure : SOP-SE/09  
 Analysis Duration : 21/12/2018 To 24/12/2018  
 Source of Emission : Stack Attached To Kiln Emission RHK (MF-1)  
 Capacity : -  
 Operating Load : Normal  
 Normal Operation Schedule : As per requirement  
 Type of Stack : Metal/Circular  
 Diameter of Stack (meter) : 0.8  
 Height of Stack from Ground Level (meter) : 10.5  
 Height of Stack from Roof Level (meter) : 2.4  
 Height of Sampling Location (meter) : Top From Roof Level  
 Type of Fuel Used : RLNG  
 Fuel Consumed per Hour : -  
 Ambient Temperature (°C) : 18.0  
 Stack Temperature (°C) : 94.0  
 Average Velocity of Fuel Emission (m/sec) : 4.51  
 Average Flow Rate (lpm) : 21.6  
 Control Measures (if any) : Nil  
 Remark (if any) : NA

**RESULTS**

S.No.	PARAMETER	Test Methods	Results	Units	LIMITS AS PER EPA*
1	Particulate Matter (as PM)	IS : 11255 (P-1)	24.6	mg/Nm <sup>3</sup>	150.0
2	Carbon monoxide (as CO)	IS :13270	<0.2	% V/V	1.0
3	Lead (as Pb)	USEPA (P-12)	<1.0	mg/Nm <sup>3</sup>	10.0



Page No. 1/2

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Group : D-8826344469**TEST REPORT**  
**Stack Emission Analysis**

Test Report No. : EK0/EV-SE/119/211218

Issue Date : 25/12/2018

Issued To

: ORIENT BELL LIMITED  
(FORMERLY : ORIENT CERAMICS & INDUSTRIES LTD.)  
8, INDUSTRIAL AREA  
SIKANDRABAD  
U.P.

Sample Description : Stack Emission  
 Sample Drawn on : 20/12/2018  
 Sample Drawn by : EPEPL(Mr. Rahul Kashyap)  
 Sample Received on : 21/12/2018  
 Time of Sampling (minutes) : 30.0  
 Sampling Location : NA  
 Sampling Plan & Procedure : SOP-SE/09  
 Analysis Duration : 21/12/2018 To 24/12/2018  
 Source of Emission : Stack Attached To Kiln Emission RHK (MF-2)  
 Capacity : -  
 Operating Load : Normal  
 Normal Operation Schedule : As per requirement  
 Type of Stack : Metal/Circular  
 Diameter of Stack (meter) : 0.66  
 Height of Stack from Ground Level (meter) : 11.5  
 Height of Stack from Roof Level (meter) : 2.0  
 Height of Sampling Location (meter) : Top From Roof Level  
 Type of Fuel Used : RLNG  
 Fuel Consumed per Hour : -  
 Ambient Temperature (°C) : 17.0  
 Stack Temperature (°C) : 102.0  
 Average Velocity of Fuel Emission (m/sec) : 5.72  
 Average Flow Rate (lpm) : 23.6  
 Control Measures (if any) : Nil  
 Remark (if any) : NA

**RESULTS**

S.No.	PARAMETER	Test Methods	Results	Units	LIMITS AS PER EPA*
1	Particulate Matter (as PM)	IS : 11255 (P-1)	29.8	mg/Nm <sup>3</sup>	150.0
2	Carbon monoxide (as CO)	IS : 13270	<0.2	% V/V	1.0
3	Lead (as Pb)	USEPA (P-12)	<1.0	mg/Nm <sup>3</sup>	10.0



Page No. 1/2



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**TEST REPORT**

**Stack Emission Analysis**

Test Report No. : EK0/EV-SE/123/211218  
 Issued To

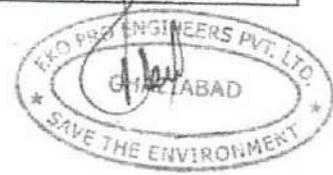
Issue Date : 25/12/2018

: ORIENT BELL LIMITED  
 (FORMERLY : ORIENT CERAMICS & INDUSTRIES LTD.)  
 8, INDUSTRIAL AREA  
 SIKANDRABAD  
 U.P.

Sample Description : Stack Emission  
 Sample Drawn on : 20/12/2018  
 Sample Drawn by : EPEPL(Mr. Rahul Kashyap)  
 Sample Received on : 21/12/2018  
 Time of Sampling (minutes) : 30.0  
 Sampling Location : NA  
 Sampling Plan & Procedure : SOP-SE/09  
 Analysis Duration : 21/12/2018 To 24/12/2018  
 Source of Emission : Stack Attached To Kiln Emission (MF-3)  
 Capacity : -  
 Operating Load : Normal  
 Normal Operation Schedule : As per requirement  
 Type of Stack : Metal/Circular  
 Diameter of Stack (meter) : 0.66  
 Height of Stack from Ground Level (meter) : 10.5  
 Height of Stack from Roof Level (meter) : 2.5  
 Height of Sampling Location (meter) : Top From Roof Level  
 Type of Fuel Used : RLNG  
 Fuel Consumed per Hour : -  
 Ambient Temperature (°C) : 17.0  
 Stack Temperature (°C) : 81.0  
 Average Velocity of Fuel Emission (m/sec) : 4.32  
 Average Flow Rate (lpm) : 16.7  
 Control Measures (if any) : Nil  
 Remark (if any) : NA

**RESULTS**

S.No.	PARAMETER	Test Methods	Results	Units	LIMITS AS PER EPA*
1	Particulate Matter (as PM)	IS : 11255 (P-1)	18.2	mg/Nm <sup>3</sup>	150.0
2	Carbon monoxide (as CO)	IS :13270	<0.2	% V/V	1.0
3	Lead (as Pb)	USEPA (P-12)	<1.0	mg/Nm <sup>3</sup>	10.0



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Contact : +91 - 9810243870



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## TEST REPORT

For Any Query Contact  
Group : D-8826344469

### Stack Emission Analysis

Test Report No. : EKO/EV-SE/120/221218

Issue Date : 26/12/2018

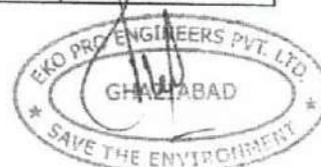
Issued To

: ORIENT BELL LIMITED  
(FORMERLY : ORIENT CERAMICS & INDUSTRIES LTD.)  
8, INDUSTRIAL AREA  
SIKANDRABAD  
U.P.

Sample Description	: Stack Emission
Sample Drawn on	: 20/12/2018
Sample Drawn by	: EPEPL(Mr. Rahul Kashyap)
Sample Received on	: 22/12/2018
Time of Sampling (minutes)	: 30.0
Sampling Location	: NA
Sampling Plan & Procedure	: SOP-SE/09
Analysis Duration	: 22/12/2018 To 25/12/2018
Source of Emission	: Stack Attached To Horizontal Dryer (MP-1)
Capacity	: -
Operating Load	: Normal
Normal Operation Schedule	: As per requirement
Type of Stack	: Metal/Circular
Diameter of Stack (meter)	: 0.5
Height of Stack from Ground Level (meter)	: 12.0
Height of Stack from Roof Level (meter)	: 2.5
Height of Sampling Location (meter)	: Top From Roof Level
Type of Fuel Used	: RLNG
Fuel Consumed per Hour	: -
Ambient Temperature (°C)	: 16.0
Stack Temperature (°C)	: 78.0
Average Velocity of Fuel Emission (m/sec)	: 5.76
Average Flow Rate (lpm)	: 21.2
Control Measures (if any)	: Nil
Remark (if any)	: NA

### RESULTS

S.No.	PARAMETER	Test Methods	Results	Units	LIMITS AS PER EPA*
1	Particulate Matter (as PM)	IS : 11255 (P-1)	24.8	mg/Nm <sup>3</sup>	150.0
2	Carbon monoxide (as CO)	IS :13270	<0.2	% V/V	1.0
3	Lead (as Pb)	USEPA (P-12)	<1.0	mg/Nm <sup>3</sup>	10.0



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**TEST REPORT****Stack Emission Analysis**

Test Report No. : EK0/EV-SE/119/221218

Issue Date : 26/12/2018

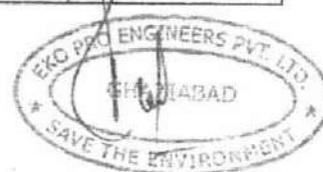
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 SIKANDRABAD  
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Sample Description : Stack Emission  
 Sample Drawn on : 21/12/2018  
 Sample Drawn by : EPEPL(Mr. Rahul Kashyap)  
 Sample Received on : 22/12/2018  
 Time of Sampling (minutes) : 30.0  
 Sampling Location : NA  
 Sampling Plan & Procedure : SOP-SE/09  
 Analysis Duration : 22/12/2018 To 25/12/2018  
 Source of Emission : Stack Attached To Horizontal Dryer (MP-4)  
 Capacity : -  
 Operating Load : Normal  
 Normal Operation Schedule : As per requirement  
 Type of Stack : Metal/Circular  
 Diameter of Stack (meter) : 0.6  
 Height of Stack from Ground Level (meter) : 11.5  
 Height of Stack from Roof Level (meter) : 2.5  
 Height of Sampling Location (meter) : Top From Roof Level  
 Type of Fuel Used : RING  
 Fuel Consumed per Hour : -  
 Ambient Temperature (°C) : 16.0  
 Stack Temperature (°C) : 110.0  
 Average Velocity of Fuel Emission (m/sec) : 4.27  
 Average Flow Rate (lpm) : 21.5  
 Control Measures (if any) : Nil  
 Remark (if any) : NA

**RESULTS**

S.No.	PARAMETER	Test Methods	Results	Units	LIMITS AS PER EPA*
1	Particulate Matter (as PM)	IS : 11255 (P-1)	23.4	mg/Nm <sup>3</sup>	150.0
2	Carbon monoxide (as CO)	IS :13270	<0.2	% V/V	1.0
3	Lead (as Pb)	USEPA (P-12)	<1.0	mg/Nm <sup>3</sup>	10.0



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For Any Query Contact  
 Group : D-8826344469

## TEST REPORT

### Stack Emission Analysis

Test Report No. : EK0/EV-SE/122/211218

Issue Date : 25/12/2018

Issued To

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 U.P.

Sample Description : Stack Emission  
 Sample Drawn on : 20/12/2018  
 Sample Drawn by : EPEPL(Mr. Rahul Kashyap)  
 Sample Received on : 21/12/2018  
 Time of Sampling (minutes) : 30.0  
 Sampling Location : NA  
 Sampling Plan & Procedure : SOP-SE/09  
 Analysis Duration : 21/12/2018 To 24/12/2018  
 Source of Emission : Stack Attached To Vertical Dryer (MF-1)  
 Capacity : -  
 Operating Load : Normal  
 Normal Operation Schedule : As per requirement  
 Type of Stack : Metal/Circular  
 Diameter of Stack (meter) : 0.31  
 Height of Stack from Ground Level (meter) : 17.0  
 Height of Stack from Roof Level (meter) : 2.0  
 Height of Sampling Location (meter) : Top From Roof Level  
 Type of Fuel Used : RLNG  
 Fuel Consumed per Hour : -  
 Ambient Temperature (°C) : 17.0  
 Stack Temperature (°C) : 85.0  
 Average Velocity of Fuel Emission (m/sec) : 7.48  
 Average Flow Rate (lpm) : 19.2  
 Control Measures (if any) : Nil  
 Remark (if any) : NA

### RESULTS

S.No.	PARAMETER	Test Methods	Results	Units	LIMITS AS PER EPA*
1	Particulate Matter (as PM)	IS : 11255 (P-1)	27.4	mg/Nm <sup>3</sup>	150.0
2	Carbon monoxide (as CO)	IS :13270	<0.2	% V/V	1.0
3	Lead (as Pb)	USEPA (P-12)	<1.0	mg/Nm <sup>3</sup>	10.0

