

M/s NUVOCO VISTAS CORPORATION LIMITED

JOJOBERA, JAMSHEPDUR

ENVIRONMENTAL MONITORING REPORT

FOR THE MONTH OF

February 2018

PREPARED BY

ASIA ENVIRO LAB

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Asia Enviro Lab

(An ISO 9001, 14001 & OSHAS 18001:2007, NABL Certified Lab)

Job Description : Environmental Testing, ETP/STP Manufacturing, ETP/STP Plant Operation Pollution NOC etc.

Lab - C-4, Commercial Complex, Near Super Saver Bazar, Sector-6, U.I.T., Bhiwadi, Distt. Alwar (Rajasthan) - 301019

Ph. No. : 09694666022, Email : asiaenvirolab@gmail.com , Website : www.asiaenvirolab.com

Test Report

Report No. : AEL/2018/113 Reporting Date: 15/02/2018

Issued to: M/S NUVOCO VISTAS CORPORATION Ltd. P.O- Rahargora, Jojobera, Jamshedpur- 831016	Sample I'd : AEL/18/113 Date : 09.02.2018 Period of testing : 09.02.2018 to 12.02.2018
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SAMPLE PARTICULARS:

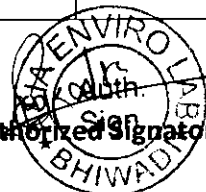
Type of the Sample	Furnace Stack Emission
Date of Sampling	06.02.2018
Stack Attach to	Bag Filter No.-550 BF-2
Emission due to	Combustion of Furnace Oil
Type of Fuel Used	Furnace Oil
Stack height(From the Ground level)	43 Meter
Stack diameter	1.23 Meter
Sample Collected By	Lab Rep.
Purpose of Analysis	Monitoring

SAMPLE OBSERVATIONS

Ambient Temperature, °C	21
Stack Temperature, °C	68
Flue gas velocity, m/sec	9.48
Sampling flow rate, liter per minute	16

Sr. No.	Parameters	Unit	Results	Standards Limit	Test Protocol
1	PM(Particulate Matter)	mg/Nm ³	20.14	30	IS 11255(P-1)
2	Sulphur Dioxide (SOX)	mg/Nm ³	43.7	--	IS 11255(P-2)
3	Oxides of Nitrogen(NO ₂)	mg/Nm ³	30.2	--	IS 11255(P-7)
4	Carbon Mono Oxide(CO)	mg/Nm ³	0.20	--	BY CO METER
5	Oxygen (O ₂)	%	19.5	--	BY Orset Method


Checked By


Authorized Signatory

- Note: 1. The result listed refer only to the tested samples and applicable parameters.
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Test Report

Report No.: AEL/2018/114 Reporting Date: 15/02/2018

Issued to: M/S NUVOCO VISTAS CORPORATION Ltd. P.O- Rahargora, Jojobera, Jamshedpur-831016	Sample I'd : AEL/18/114 Date : 09.02.2018 Period of testing : 09.02.2018 to 12.02.2018
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SAMPLE PARTICULARS:	
Type of the Sample	Process Stack Emission
Date of Sampling	06.02.2018
Stack Attach to	Bag Filter No.-550 BF-4
Emission due to	Process Activity(Slag Grinding Circuit)
Stack height(From the Ground level)	42 Meter
Stack diameter	1.00 Meter
Sample Collected By	Lab Rep.
Purpose of Analysis	Monitoring

SAMPLE OBSERVATIONS	
Ambient Temperature, °C	21
Stack Temperature, °C	62
Flue gas velocity, m/sec	8.97
Sampling flow rate, liter per minute	16

Sr. No.	Parameters	Unit	Results	Standards Limit	Test Protocol
1	PM(Particulate Matter)	mg/Nm ³	23.1	30	IS 11255(P-1)
2	Sulphur Dioxide (SOX)	mg/Nm ³	N.A	--	IS 11255(P-2)
3	Oxides of Nitrogen(NO ₂)	mg/Nm ³	N.A	--	IS 11255(P-7)
4	Carbon Mono Oxide(CO)	mg/Nm ³	N.A	--	BY CO METER
5	Oxygen (O ₂)	%	N.A	--	BY Orset Method


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Report No.: AEL/2018/115 Reporting Date: 15/02/2018

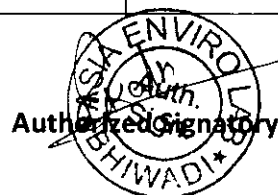
Issued to: M/S NUVOCO VISTAS CORPORATION Ltd. P.O- Rahargora, Jojobera, Jamshedpur- 831016	Sample I'd : AEL/18/115 Date : 09.02.2018 Period of testing : 09.02.2018 to 12.02.2018
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SAMPLE PARTICULARS:	
Type of the Sample	Furnace Stack Emission
Date of Sampling	06.02.2018
Stack Attach to	Bag Filter No.-550 BF-6
Emission due to	Combustion of Furnace Oil
Type of Fuel Used	Furnace Oil
Stack height(From the Ground level)	56 Meter
Stack diameter	1.46 Meter
Sample Collected By	Lab Rep.
Purpose of Analysis	Monitoring

SAMPLE OBSERVATIONS	
Ambient Temperature, °C	21
Stack Temperature, °C	85
Flue gas velocity, m/sec	9.78
Sampling flow rate, liter per minute	16

Sr. No.	Parameters	Unit	Results	Standards Limit	Test Protocol
1	PM(Particulate Matter)	mg/Nm ³	21.4	30	IS 11255(P-1)
2	Sulphur Dioxide (SOX)	mg/Nm ³	44.12	--	IS 11255(P-2)
3	Oxides of Nitrogen(NO ₂)	mg/Nm ³	52.4	--	IS 11255(P-7)
4	Carbon Mono Oxide(CO)	mg/Nm ³	0.20	--	BY CO METER
5	Oxygen (O ₂)	%	18.5	--	BY Orset Method

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Test Report

Report No.: AEL/2018/116 Reporting Date: 15/02/2018

Issued to: M/S NUVOCO VISTAS CORPORATION Ltd. P.O- Rahargora, Jojobera, Jamshedpur- 831016	Sample I'd : AEL/18/116 Date : 09.02.2018 Period of testing : 09.02.2018 to 12.02.2018
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SAMPLE PARTICULARS:

Type of the Sample	Furnace Stack Emission
Date of Sampling	06.02.2018
Stack Attach to	Bag Filter No.-551 BF-2
Emission due to	Combustion of Furnace Oil
Type of Fuel Used	N.A
Stack height(From the Ground level)	56 Meter
Stack diameter	1.23 Meter
Sample Collected By	Lab Rep.
Purpose of Analysis	Monitoring

SAMPLE OBSERVATIONS

Ambient Temperature, °C	21
Stack Temperature, °C	72
Flue gas velocity, m/sec	9.23
Sampling flow rate, liter per minute	15

Sr. No.	Parameters	Unit	Results	Standards Limit	Test Protocol
1	PM(Particulate Matter)	mg/Nm ³	17.30	30	IS 11255(P-1)
2	Sulphur Dioxide (SOX)	mg/Nm ³	46.4	--	IS 11255(P-2)
3	Oxides of Nitrogen(NO ₂)	mg/Nm ³	31.2	--	IS 11255(P-7)
4	Carbon Mono Oxide(CO)	mg/Nm ³	0.21	--	BY CO METER
5	Oxygen (O ₂)	%	18.4	--	BY Orset Method


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Test Report

Report No.: AEL/2018/117	Reporting Date: 15/02/2018
Issued to: M/S NUVOCO VISTAS CORPORATION Ltd. P.O- Rahargora, Jojobera, Jamshedpur- 831016	Sample I'd : AEL/18/117 Date : 09.02.2018 Period of testing : 09.02.2018 to 12.02.2018

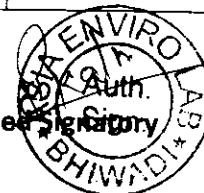
SAMPLE PARTICULARS:	
Type of the Sample	Process Stack Emission
Date of Sampling	06.02.2018
Stack Attach to	Bag Filter No.-551 BF-4
Emission due to	Process Activity(Slag Grinding Circuit)
Stack height(From the Ground level)	40 Meter
Stack diameter	0.830 Meter
Sample Collected By	Lab Rep.
Purpose of Analysis	Monitoring

SAMPLE OBSERVATIONS	
Ambient Temperature, °C	21
Stack Temperature, °C	53
Flue gas velocity, m/sec	4.20
Sampling flow rate, liter per minute	16

Sr. No.	Parameters	Unit	Results	Standards Limit	Test Protocol
1	PM(Particulate Matter)	mg/Nm ³	20.7	30	IS 11255(P-1)
2	Sulphur Dioxide (SOX)	mg/Nm ³	N.A	--	IS 11255(P-2)
3	Oxides of Nitrogen(NO ₂)	mg/Nm ³	N.A	--	IS 11255(P-7)
4	Carbon Mono Oxide(CO)	mg/Nm ³	N.A	--	BY CO METER
5	Oxygen (O ₂)	%	N.A	--	BY Orset Method

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Test Report

Report No.: AEL/2018/118 Reporting Date: 15/02/2018

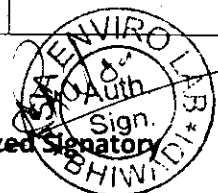
Issued to: M/S NUVOCO VISTAS CORPORATION Ltd. P.O- Rahargora, Jojobera, Jamshedpur- 831016	Sample I'd : AEL/18/118 Date : 09.02.2018 Period of testing : 09.02.2018 to 12.02.2018
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SAMPLE PARTICULARS:	
Type of the Sample	Furnace Stack Emission
Date of Sampling	06.02.2018
Stack Attach to	Bag Filter No.-551 BF-6
Emission due to	Combustion of Furnace Oil
Type of Fuel Used	Furnace Oil
Stack height(From the Ground level)	56 Meter
Stack diameter	1.46 Meter
Sample Collected By	Lab Rep.
Purpose of Analysis	Monitoring

SAMPLE OBSERVATIONS	
Ambient Temperature, °C	21
Stack Temperature, °C	78
Flue gas velocity, m/sec	9.04
Sampling flow rate, liter per minute	15

Sr. No.	Parameters	Unit	Results	Standards Limit	Test Protocol
1	PM(Particulate Matter)	mg/Nm ³	21.6	30	IS 11255(P-1)
2	Sulphur Dioxide (SOX)	mg/Nm ³	46.3	--	IS 11255(P-2)
3	Oxides of Nitrogen(NO ₂)	mg/Nm ³	34.2	--	IS 11255(P-7)
4	Carbon Mono Oxide(CO)	mg/Nm ³	0.23	--	BY CO METER
5	Oxygen (O ₂)	%	18.32	--	BY Orset Method


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Test Report

Report No.: AEL/2018/119 Reporting Date:15/02/2018

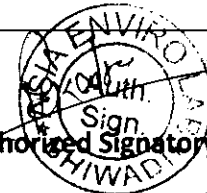
Issued to: M/S NUVOCO VISTAS CORPORATION Ltd. P.O- Rahargora, Jojobera, Jamshedpur- 831016	Sample I'd : AEL/18/119 Date : 09.02.2018 Period of testing : 09.02.2018 to 12.02.2018
--	--

SAMPLE PARTICULARS:	
Type of the Sample	Process Stack Emission
Date of Sampling	06.02.2018
Stack Attach to	Bag Filter No.-560 BF-1
Emission due to	Process Activity(Slag Grinding Circuit)
Stack height(From the Ground level)	43 Meter
Stack diameter	0.980 Meter
Sample Collected By	Lab Rep.
Purpose of Analysis	Monitoring

SAMPLE OBSERVATIONS	
Ambient Temperature, °C	21
Stack Temperature, °C	42
Flue gas velocity, m/sec	8.76
Sampling flow rate, liter per minute	16

Sr. No.	Parameters	Unit	Results	Standards Limit	Test Protocol
1	PM(Particulate Matter)	mg/Nm ³	19.8	30	IS 11255(P-1)
2	Sulphur Dioxide (SOX)	mg/Nm ³	N.A	--	IS 11255(P-2)
3	Oxides of Nitrogen(NO ₂)	mg/Nm ³	N.A	--	IS 11255(P-7)
4	Carbon Mono Oxide(CO)	mg/Nm ³	N.A	--	BY CO METER
5	Oxygen (O ₂)	%	N.A	--	BY Orset Method


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Test Report

Report No.: AEL/2018/120 Reporting Date:15/02/2018

Issued to: M/S NUVOCO VISTAS CORPORATION Ltd. P.O- Rahargora, Jojobera, Jamshedpur- 831016	Sample I'd : AEL/18/120 Date : 09.02.2018 Period of testing : 09.02.2018 to 12.02.2018
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SAMPLE PARTICULARS:

Type of the Sample	Process Stack Emission
Date of Sampling	06.02.2018
Stack Attach to	Bag Filter No.-565 BF-1
Emission due to	Process Activity(Clinker Grinding Circuit)
Stack height(From the Ground level)	43 Meter
Stack diameter	0.680 Meter
Sample Collected By	Lab Rep.
Purpose of Analysis	Monitoring

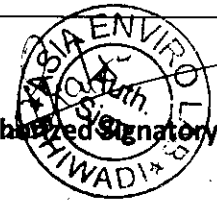
SAMPLE OBSERVATIONS

Ambient Temperature, °C	21
Stack Temperature, °C	45
Flue gas velocity, m/sec	8.81
Sampling flow rate, liter per minute	16

Sr. No.	Parameters	Unit	Results	Standards Limit	Test Protocol
1	PM(Particulate Matter)	mg/Nm ³	17.5	30	IS 11255(P-1)
2	Sulphur Dioxide (SOX)	mg/Nm ³	N.A	--	IS 11255(P-2)
3	Oxides of Nitrogen(NO ₂)	mg/Nm ³	N.A	--	IS 11255(P-7)
4	Carbon Mono Oxide(CO)	mg/Nm ³	N.A	--	BY CO METER
5	Oxygen (O ₂)	%	N.A	--	BY Orset Method

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Test Report

Report No.: AEL/2018/121	Reporting Date: 15/02/2018
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Issued to: M/S NUVOCO VISTAS CORPORATION Ltd. P.O- Rahargora, Jojobera, Jamshedpur- 831016	Sample I'd : AEL/18/121 Date : 09.02.2018 Period of testing : 09.02.2018 to 12.02.2018
--	--

SAMPLE PARTICULARS:	
Type of the Sample	Process Stack Emission
Date of Sampling	06.02.2018
Stack Attach to	Bag Filter No.-566 BF-1
Emission due to	Process Activity(Clinker Grinding Circuit)
Stack height(From the Ground level)	43 Meter
Stack diameter	0.680 Meter
Sample Collected By	Lab Rep.
Purpose of Analysis	Monitoring

SAMPLE OBSERVATIONS	
Ambient Temperature, °C	21
Stack Temperature, °C	47
Flue gas velocity, m/sec	8.89
Sampling flow rate, liter per minute	16

Sr. No.	Parameters	Unit	Results	Standards Limit	Test Protocol
1	PM(Particulate Matter)	mg/Nm ³	20.23	30	IS 11255(P-1)
2	Sulphur Dioxide (SOX)	mg/Nm ³	N.A	--	IS 11255(P-2)
3	Oxides of Nitrogen(NO ₂)	mg/Nm ³	N.A	--	IS 11255(P-7)
4	Carbon Mono Oxide(CO)	mg/Nm ³	N.A	--	BY CO METER
5	Oxygen (O ₂)	%	N.A	--	BY Orset Method

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Test Report

Report No.: AEL/2018/122 Reporting Date: 15/02/2018

Issued to: M/S NUVOCO VISTAS CORPORATION Ltd. P.O- Rahargora, Jojobera, Jamshedpur- 831016	Sample I'd : AEL/18/122 Date : 09.02.2018 Period of testing : 09.02.2018 to 12.02.2018
--	--

SAMPLE PARTICULARS:

Type of the Sample	Process Stack Emission
Date of Sampling	06.02.2018
Stack Attach to	Bag Filter No.-567 BF-1
Emission due to	Process Activity(Clinker Grinding Circuit)
Stack height(From the Ground level)	43 Meter
Stack diameter	1.23 Meter
Sample Collected By	Lab Rep.
Purpose of Analysis	Monitoring

SAMPLE OBSERVATIONS

Ambient Temperature, °C	21
Stack Temperature, °C	45
Flue gas velocity, m/sec	8.69
Sampling flow rate, liter per minute	16

Sr. No.	Parameters	Unit	Results	Standards Limit	Test Protocol
1	PM(Particulate Matter)	mg/Nm ³	19.1	30	IS 11255(P-1)
2	Sulphur Dioxide (SOX)	mg/Nm ³	N.A	--	IS 11255(P-2)
3	Oxides of Nitrogen(NO ₂)	mg/Nm ³	N.A	--	IS 11255(P-7)
4	Carbon Mono Oxide(CO)	mg/Nm ³	N.A	--	BY CO METER
5	Oxygen (O ₂)	%	N.A	--	BY Orset Method

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Test Report

Report No.: AEL/2018/123 Reporting Date: 15/02/2018

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--	--

SAMPLE PARTICULARS:	
Type of the Sample	Process Stack Emission
Date of Sampling	06.02.2018
Stack Attach to	Bag Filter No.-567 BF-2
Emission due to	Process Activity(Clinker Grinding Circuit)
Stack height(From the Ground level)	43 Meter
Stack diameter	0.680 Meter
Sample Collected By	Lab Rep.
Purpose of Analysis	Monitoring

SAMPLE OBSERVATIONS	
Ambient Temperature, °C	21
Stack Temperature, °C	52
Flue gas velocity, m/sec	9.12
Sampling flow rate, liter per minute	16

Sr. No.	Parameters	Unit	Results	Standards Limit	Test Protocol
1	PM(Particulate Matter)	mg/Nm ³	23.4	30	IS 11255(P-1)
2	Sulphur Dioxide (SOX)	mg/Nm ³	N.A	--	IS 11255(P-2)
3	Oxides of Nitrogen(NO ₂)	mg/Nm ³	N.A	--	IS 11255(P-7)
4	Carbon Mono Oxide(CO)	mg/Nm ³	N.A	--	BY CO METER
5	Oxygen (O ₂)	%	N.A	--	BY Orset Method

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Ph. No. : 09694666022, Email : asiaenvirolab@gmail.com , Website : www.asiaenvirolab.com

Test Report

Report No.: AEL/2018/124 Reporting Date: 15/02/2018

Issued to: M/S NUVOCO VISTAS CORPORATION Ltd. P.O- Rahargora, Jojobera, Jamshedpur- 831016	Sample I'd : AEL/18/124 Date : 09.02.2018 Period of testing : 09.02.2018 to 12.02.2018
--	--

SAMPLE PARTICULARS:

Type of the Sample	Process Stack Emission
Date of Sampling	07.02.2018
Stack Attach to	Bag Filter No.-568 BF-1
Emission due to	Process Activity(Clinker Grinding Circuit)
Stack height(From the Ground level)	43 Meter
Stack diameter	1.23 Meter
Sample Collected By	Lab Rep.
Purpose of Analysis	Monitoring

SAMPLE OBSERVATIONS

Ambient Temperature, °C	22
Stack Temperature, °C	59
Flue gas velocity, m/sec	8.71
Sampling flow rate, liter per minute	15

Sr. No.	Parameters	Unit	Results	Standards Limit	Test Protocol
1	PM(Particulate Matter)	mg/Nm ³	21.1	30	IS 11255(P-1)
2	Sulphur Dioxide (SOX)	mg/Nm ³	N.A	--	IS 11255(P-2)
3	Oxides of Nitrogen(NO ₂)	mg/Nm ³	N.A	--	IS 11255(P-7)
4	Carbon Mono Oxide(CO)	mg/Nm ³	N.A	--	BY CO METER
5	Oxygen (O ₂)	%	N.A	--	BY Orset Method

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Test Report

Report No.: AEL/2018/125 Reporting Date: 15/02/2018

Issued to: M/S NUVOCO VISTAS CORPORATION Ltd. P.O- Rahargora, Jojobera, Jamshedpur- 831016	Sample I'd : AEL/18/125 Date : 09.02.2018 Period of testing : 09.02.2018 to 12.02.2018
--	--

SAMPLE PARTICULARS:

Type of the Sample	Process Stack Emission
Date of Sampling	07.02.2018
Stack Attach to	Bag Filter No.-568 BF-2
Emission due to	Process Activity(Clinker Grinding Circuit)
Stack height(From the Ground level)	43 Meter
Stack diameter	0.680 Meter
Sample Collected By	Lab Rep.
Purpose of Analysis	Monitoring

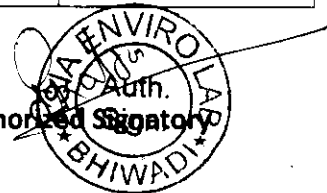
SAMPLE OBSERVATIONS

Ambient Temperature, °C	22
Stack Temperature, °C	52
Flue gas velocity, m/sec	8.63
Sampling flow rate, liter per minute	15

Sr. No.	Parameters	Unit	Results	Standards Limit	Test Protocol
1	PM(Particulate Matter)	mg/Nm ³	21.37	30	IS 11255(P-1)
2	Sulphur Dioxide (SOX)	mg/Nm ³	N.A	--	IS 11255(P-2)
3	Oxides of Nitrogen(NO ₂)	mg/Nm ³	N.A	--	IS 11255(P-7)
4	Carbon Mono Oxide(CO)	mg/Nm ³	N.A	--	BY CO METER
5	Oxygen (O ₂)	%	N.A	--	BY Orset Method

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Test Report

Report No.: AEL/2018/126	Reporting Date: 15/02/2018
Issued to: M/S NUVOCO VISTAS CORPORATION Ltd. P.O- Rahargora, Jojobera, Jamshedpur- 831016	Sample I'd : AEL/18/126 Date : 09.02.2018 Period of testing : 09.02.2018 to 12.02.2018

SAMPLE PARTICULARS:

Type of the Sample	Process Stack Emission
Date of Sampling	07.02.2018
Stack Attach to	Bag Filter No.-570 BF-1
Emission due to	Process Activity(Clinker Grinding Circuit)
Stack height(From the Ground level)	43 Meter
Stack diameter	1.27 Meter
Sample Collected By	Lab Rep.
Purpose of Analysis	Monitoring

SAMPLE OBSERVATIONS

Ambient Temperature, °C	22
Stack Temperature, °C	68
Flue gas velocity, m/sec	9.73
Sampling flow rate, liter per minute	18

Sr. No.	Parameters	Unit	Results	Standards Limit	Test Protocol
1	PM(Particulate Matter)	mg/Nm ³	18.95	30	IS 11255(P-1)
2	Sulphur Dioxide (SOX)	mg/Nm ³	N.A	--	IS 11255(P-2)
3	Oxides of Nitrogen(NO ₂)	mg/Nm ³	N.A	--	IS 11255(P-7)
4	Carbon Mono Oxide(CO)	mg/Nm ³	N.A	--	BY CO METER
5	Oxygen (O ₂)	%	N.A	--	BY Orset Method

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Test Report

Report No.: AEL/2018/127 Reporting Date: 15/02/2018

Issued to: M/S NUVOCO VISTAS CORPORATION Ltd. P.O- Rahargora, Jojobera, Jamshedpur- 831016	Sample I'd : AEL/18/127 Date : 09.02.2018 Period of testing : 09.02.2018 to 12.02.2018
--	--

SAMPLE PARTICULARS:

Type of the Sample	Process Stack Emission
Date of Sampling	07.02.2018
Stack Attach to	Bag Filter No.-570 BF-2
Emission due to	Process Activity(Clinker Grinding Circuit)
Stack height(From the Ground level)	43 Meter
Stack diameter	0.687 Meter
Sample Collected By	Lab Rep.
Purpose of Analysis	Monitoring

SAMPLE OBSERVATIONS

Ambient Temperature, °C	22
Stack Temperature, °C	48
Flue gas velocity, m/sec	8.42
Sampling flow rate, liter per minute	21

Sr. No.	Parameters	Unit	Results	Standards Limit	Test Protocol
1	PM(Particulate Matter)	mg/Nm ³	24.8	30	IS 11255(P-1)
2	Sulphur Dioxide (SOX)	mg/Nm ³	N.A	--	IS 11255(P-2)
3	Oxides of Nitrogen(NO ₂)	mg/Nm ³	N.A	--	IS 11255(P-7)
4	Carbon Mono Oxide(CO)	mg/Nm ³	N.A	--	BY CO METER
5	Oxygen (O ₂)	%	N.A	--	BY Orset Method

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Test Report

Report No.: AEL/2018/128	Reporting Date: 15/02/2018
Issued to: M/S NUVOCO VISTAS CORPORATION Ltd. P.O- Rahargora, Jojobera, Jamshedpur- 831016	Sample I'd : AEL/18/128 Date : 09.02.2018 Period of testing : 09.02.2018 to 12.02.2018

SAMPLE PARTICULARS:	
Type of the Sample	Process Stack Emission
Date of Sampling	07.02.2018
Stack Attach to	Bag Filter No.-571 BF-1
Emission due to	Process Activity(Clinker Grinding Circuit)
Stack height(From the Ground level)	30 Meter
Stack diameter	1.12 Meter
Sample Collected By	Lab Rep.
Purpose of Analysis	Monitoring

SAMPLE OBSERVATIONS	
Ambient Temperature, °C	22
Stack Temperature, °C	61
Flue gas velocity, m/sec	9.43
Sampling flow rate, liter per minute	17

Sr. No.	Parameters	Unit	Results	Standards Limit	Test Protocol
1	PM(Particulate Matter)	mg/Nm ³	20.9	30	IS 11255(P-1)
2	Sulphur Dioxide (SOX)	mg/Nm ³	N.A	--	IS 11255(P-2)
3	Oxides of Nitrogen(NO ₂)	mg/Nm ³	N.A	--	IS 11255(P-7)
4	Carbon Mono Oxide(CO)	mg/Nm ³	N.A	--	BY CO METER
5	Oxygen (O ₂)	%	N.A	--	BY Orset Method

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Test Report

Report No.: AEL/2018/129 Reporting Date:15/02/2018

Issued to: M/S NUVOCO VISTAS CORPORATION Ltd. P.O- Rahargora, Jojobera, Jamshedpur- 831016	Sample I'd : AEL/18/129 Date : 09.02.2018 Period of testing : 09.02.2018 to 12.02.2018
--	--

SAMPLE PARTICULARS:	
Type of the Sample	Process Stack Emission
Date of Sampling	07.02.2018
Stack Attach to	Bag Filter No.-571 BF-2
Emission due to	Process Activity(Clinker Grinding Circuit)
Stack height(From the Ground level)	30 Meter
Stack diameter	1.12 Meter
Sample Collected By	Lab Rep.
Purpose of Analysis	Monitoring

SAMPLE OBSERVATIONS	
Ambient Temperature, °C	22
Stack Temperature, °C	66
Flue gas velocity, m/sec	9.38
Sampling flow rate, liter per minute	17

Sr. No.	Parameters	Unit	Results	Standards Limit	Test Protocol
1	PM(Particulate Matter)	mg/Nm ³	20.24	30	IS 11255(P-1)
2	Sulphur Dioxide (SOX)	mg/Nm ³	N.A	--	IS 11255(P-2)
3	Oxides of Nitrogen(NO ₂)	mg/Nm ³	N.A	--	IS 11255(P-7)
4	Carbon Mono Oxide(CO)	mg/Nm ³	N.A	--	BY CO METER
5	Oxygen (O ₂)	%	N.A	--	BY Orset Method


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Test Report

Report No.: AEL/2018/130	Reporting Date: 15/02/2018
Issued to: M/SNUVOCO VISTAS CORPORATION Ltd. P.O- Rahargora, Jojobera, Jamshedpur-831016	Sample I'd : AEL/18/130 Date : 09.02.2018 Period of testing : 09.02.2018 to 12.02.2018

SAMPLE PARTICULARS:	
Type of the Sample	Process Stack Emission
Date of Sampling	07.02.2018
Stack Attach to	Bag Filter No.-661 BF-1
Emission due to	Process Activity(Packing Plant)
Stack height(From the Ground level)	50 Meter
Stack diameter	1.28 Meter
Sample Collected By	Lab Rep.
Purpose of Analysis	Monitoring

SAMPLE OBSERVATIONS	
Ambient Temperature, °C	22
Stack Temperature, °C	29
Flue gas velocity, m/sec	8.09
Sampling flow rate, liter per minute	16

Sr. No.	Parameters	Unit	Results	Standards Limit	Test Protocol
1	PM(Particulate Matter)	mg/Nm ³	22.8	30	IS 11255(P-1)
2	Sulphur Dioxide (SOX)	mg/Nm ³	N.A	--	IS 11255(P-2)
3	Oxides of Nitrogen(NO ₂)	mg/Nm ³	N.A	--	IS 11255(P-7)
4	Carbon Mono Oxide(CO)	mg/Nm ³	N.A	--	BY CO METER
5	Oxygen (O ₂)	%	N.A	--	BY Orset Method


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Test Report

Report No.: AEL/2018/131 Reporting Date: 15/02/2018


Issued to: M/S NUVOCO VISTAS CORPORATION Ltd. P.O- Rahargora, Jojobera, Jamshedpur- 831016	Sample I'd : AEL/18/131 Date : 09.02.2018 Period of testing : 09.02.2018 to 12.02.2018
--	--

SAMPLE PARTICULARS:	
Type of the Sample	Process Stack Emission
Date of Sampling	07.02.2018
Stack Attach to	Bag Filter No.-662 BF-1
Emission due to	Process Activity(Packing Plant)
Stack height(From the Ground level)	40 Meter
Stack diameter	1.28 Meter
Sample Collected By	Lab Rep.
Purpose of Analysis	Monitoring

SAMPLE OBSERVATIONS	
Ambient Temperature, °C	22
Stack Temperature, °C	28
Flue gas velocity, m/sec	8.14
Sampling flow rate, liter per minute	16

Sr. No.	Parameters	Unit	Results	Standards Limit	Test Protocol
1	PM(Particulate Matter)	mg/Nm ³	19.6	30	IS 11255(P-1)
2	Sulphur Dioxide (SOX)	mg/Nm ³	N.A	--	IS 11255(P-2)
3	Oxides of Nitrogen(NO ₂)	mg/Nm ³	N.A	--	IS 11255(P-7)
4	Carbon Mono Oxide(CO)	mg/Nm ³	N.A	--	BY CO METER
5	Oxygen (O ₂)	%	N.A	--	BY Orset Method

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Test Report

Report No.: AEL/2018/132 Reporting Date:15/02/2018

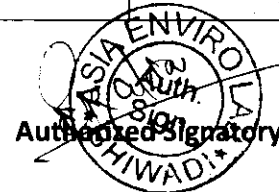
Issued to: M/S NUVOCO VISTAS CORPORATION Ltd. P.O- Rahargora, Jojobera, Jamshedpur- 831016	Sample I'd : AEL/18/132 Date : 09.02.2018 Period of testing : 09.02.2018 to 12.02.2018
--	--

SAMPLE PARTICULARS:	
Type of the Sample	Process Stack Emission
Date of Sampling	07.02.2018
Stack Attach to	Bag Filter No.-663 BF-1
Emission due to	Process Activity(Packing Plant)
Stack height(From the Ground level)	40 Meter
Stack diameter	1.28 Meter
Sample Collected By	Lab Rep.
Purpose of Analysis	Monitoring

SAMPLE OBSERVATIONS	
Ambient Temperature, °C	22
Stack Temperature, °C	30
Flue gas velocity, m/sec	8.11
Sampling flow rate, liter per minute	16

Sr. No.	Parameters	Unit	Results	Standards Limit	Test Protocol
1	PM(Particulate Matter)	mg/Nm ³	19.4	30	IS 11255(P-1)
2	Sulphur Dioxide (SOX)	mg/Nm ³	N.A	--	IS 11255(P-2)
3	Oxides of Nitrogen(NO ₂)	mg/Nm ³	N.A	--	IS 11255(P-7)
4	Carbon Mono Oxide(CO)	mg/Nm ³	N.A	--	BY CO METER
5	Oxygen (O ₂)	%	N.A	--	BY Orset Method


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Report No.: AEL/2018/133 Reporting Date: 15/02/2018

Issued to: M/S NUVOCO VISTAS CORPORATION Ltd. P.O- Rahargora, Jojobera, Jamshedpur- 831016	Sample I'd : AEL/18/133 Date : 09.02.2018 Period of testing : 09.02.2018 to 12.02.2018
--	--

SAMPLE PARTICULARS:	
Type of the Sample	Process Stack Emission
Date of Sampling	08.02.2018
Stack Attach to	V.R.M. : (456 DC 98)
Emission due to	Process Activity(Slag Grinding)
Stack height(From the Ground level)	65 Meter
Stack diameter	3.22 Meter
Sample Collected By	Lab Rep.
Purpose of Analysis	Monitoring

SAMPLE OBSERVATIONS	
Ambient Temperature, °C	22
Stack Temperature, °C	98
Flue gas velocity, m/sec	11.3
Sampling flow rate, liter per minute	18

Sr. No.	Parameters	Unit	Results	Standards Limit	Test Protocol
1	PM(Particulate Matter)	mg/Nm ³	19.8	30	IS 11255(P-1)
2	Sulphur Dioxide (SOX)	mg/Nm ³	N.A	--	IS 11255(P-2)
3	Oxides of Nitrogen(NO ₂)	mg/Nm ³	N.A	--	IS 11255(P-7)
4	Carbon Mono Oxide(CO)	mg/Nm ³	N.A	--	BY CO METER
5	Oxygen (O ₂)	%	N.A	--	BY Orset Method

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Test Report

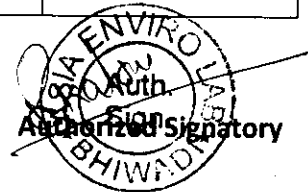
Report No.: AEL/2018/134	Reporting Date: 15/02/2018
Issued to: M/S NUVOCO VISTAS CORPORATION Ltd. P.O- Rahargora, Jojobera, Jamshedpur- 831016	Sample I'd : AEL/18/134 Date : 09.02.2018 Period of testing : 09.02.2018 to 12.02.2018

SAMPLE PARTICULARS:	
Type of the Sample	Process Stack Emission
Date of Sampling	08.02.2018
Stack Attach to	Coal Mill Bag Filter : (613 DC 14)
Emission due to	Process Activity
Stack height(From the Ground level)	47 Meter
Stack diameter	0.99 Meter
Sample Collected By	Lab Rep.
Purpose of Analysis	Monitoring

SAMPLE OBSERVATIONS	
Ambient Temperature, °C	22
Stack Temperature, °C	86
Flue gas velocity, m/sec	11.1
Sampling flow rate, liter per minute	18

Sr. No.	Parameters	Unit	Results	Standards Limit	Test Protocol
1	PM(Particulate Matter)	mg/Nm ³	21.6	30	IS 11255(P-1)
2	Sulphur Dioxide (SOX)	mg/Nm ³	N.A	--	IS 11255(P-2)
3	Oxides of Nitrogen(NO ₂)	mg/Nm ³	N.A	--	IS 11255(P-7)
4	Carbon Mono Oxide(CO)	mg/Nm ³	N.A	--	BY CO METER
5	Oxygen (O ₂)	%	N.A	--	BY Orset Method

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Test Report

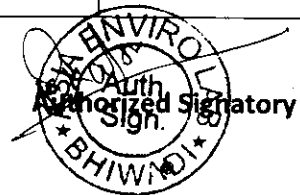
Report No.: AEL/2018/135 Reporting Date: 15/02/2018

Issued to: M/SNUVOCO VISTAS CORPORATION Ltd. P.O- Rahargora, Jojobera, Jamshedpur- 831016	Sample I'd : AEL/18/135 Date : 09.02.2018 Period of testing : 09.02.2018 to 12.02.2018
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SAMPLE PARTICULARS:	
Type of the Sample	Treated SewageWater Sample
Date of Sample Receiving	07.02.2018
Point of Sample Collection	From STP Outlet(Near Operation Plant)
Sample Collected By	Customer
Purpose of Analysis	Monitoring

TEST RESULTS:					
Sr. No.	Parameters	Unit	Results	Standards Limit	Test Protocol
1	pH	--	7.29	5.5-9.0	IS-3025 (P-11)
2	COD	mg/l	46.0	250	IS-3025 (P-58)
3	BOD (at 27°C for 3 days)	mg/l	12.2	30	IS-3025 (P-44)
4	Total Suspended Solids	mg/l	16.0	100	IS-3025 (P-17)
5	Oil & Grease	mg/l	2.2	10	IS-3025 (P-39)
6	Total Dissolved Solids	mg/l	19.0	--	IS-3025(P-16)
7	Total Hardness,(as CaCO ₃)	mg/l	156.7	--	IS-3025(P-21)
8	Calcium Hardness, (as Ca)	mg/l	38.0	--	IS-3025(P-40)
9	Magnesium Hardness,(as Mg)	mg/l	15.1	--	IS-3025(P-46)
10	Sulphate,(as SO ₄)	mg/l	68.8	1000	IS-3025(P-24)

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Test Report

Report No.: AEL/2018/136 Reporting Date: 15/02/2018

Issued to: M/S NUVOCO VISTAS CORPORATION Ltd. P.O- Rahargora, Jojobera, Jamshedpur- 831016	Sample I'd : AEL/18/136 Date : 09.02.2018 Period of testing : 09.02.2018 to 12.02.2018
--	--

SAMPLE PARTICULARS:

Type of the Sample	Effluent Water Sample
Date of Sample Receiving	07.02.2018
Point of Sample Collection	From Outlet No.-2(Near Boundary Wall Outlet)
Sample Collected By	Customer
Purpose of Analysis	Monitoring

TEST RESULTS:

Sr. No.	Parameters	Unit	Results	Standards Limit	Test Protocol
1	pH	--	7.53	5.5-9.0	IS-3025 (P-11)
2	COD	mg/l	34.1	250	IS-3025 (P-58)
3	BOD (at 27°C for 3 days)	mg/l	10.4	30	IS-3025 (P-44)
4	Total Suspended Solids	mg/l	12.0	100	IS-3025 (P-17)
5	Oil & Grease	mg/l	2.0	10	IS-3025 (P-39)
6	Total Dissolved Solids	mg/l	956	--	IS-3025(P-16)
7	Total Hardness,(as CaCO ₃)	mg/l	134.2	--	IS-3025(P-21)
8	Calcium Hardness, (as Ca)	mg/l	33.4	--	IS-3025(P-40)
9	Magnesium Hardness,(as Mg)	mg/l	12.4	--	IS-3025(P-46)
10	Sulphate,(as SO ₄)	mg/l	74.2	1000	IS-3025(P-24)

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Test Report

Report No.: AEL/2018/137 Reporting Date: 15/02/2018

Issued to: M/S NUVOCO VISTAS CORPORATION Ltd. P.O- Rahargora, Jojobera, Jamshedpur- 831016	Sample I'd : AEL/18/137 Date : 09.02.2018 Period of testing : 09.02.2018 to 12.02.2018
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SAMPLE PARTICULARS:

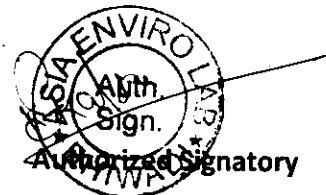
Type of the Sample	Ambient Air Sample
Date of Sampling	07.02.2018 to 08.02.2018
Point of Sample Collection	Near LOCO Railway Gate
Sample Collected By	Lab Rep.
Purpose of Analysis	Monitoring

SAMPLE OBSERVATIONS

Sampling flow rate (m ³ /min.)	1.21
Period of sampling (minutes)	1443.6
Total volume of air sampled (m ³)	1746.8

Sr. No.	Parameters	Unit	Results	Standards Limit	Test Protocol
1	Particulate Matter(PM ₁₀)	µg/m ³	88.9	100	IS: 5182,(P-23)
2	Particulate Matter(PM _{2.5})	µg/m ³	46.5	60	PM 2.5 Sampler (Gravimetric)
3	Sulphur Dioxide (SOX)	µg/m ³	46.7	80	IS: 5182,(P-2)
4	Nitrogen Dioxide (NOX)	µg/m ³	42.8	80	IS: 5182,(P-6)


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Test Report

Report No.: AEL/2018/138 Reporting Date: 15/02/2018

Issued to: M/S NUVOCO VISTAS CORPORATION Ltd. P.O- Rahargora, Jojobera, Jamshedpur- 831016	Sample I'd : AEL/18/138 Date : 09.02.2018 Period of testing : 09.02.2018 to 12.02.2018
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SAMPLE PARTICULARS:

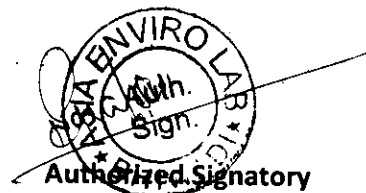
Type of the Sample	Ambient Air Sample
Date of Sampling	07.02.2018 to 08.02.2018
Point of Sample Collection	Near Time Office
Sample Collected By	Lab Rep.
Purpose of Analysis	Monitoring

SAMPLE OBSERVATIONS

Sampling flow rate (m ³ /min.)	1.24
Period of sampling (minutes)	1449.6
Total volume of air sampled (m ³)	1797.5

Sr. No.	Parameters	Unit	Results	Standards Limit	Test Protocol
1	Particulate Matter(PM ₁₀)	µg/m ³	84.1	100	IS: 5182,(P-23)
2	Particulate Matter(PM _{2.5})	µg/m ³	42.5	60	PM 2.5 Sampler (Gravimetric)
3	Sulphur Dioxide (SOX)	µg/m ³	54.3	80	IS: 5182,(P-2)
4	Nitrogen Dioxide (NOX)	µg/m ³	38.2	80	IS: 5182,(P-6)


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Test Report

Report No.: AEL/2018/139	Reporting Date: 15/02/2018
Issued to: M/S NUVOCO VISTAS CORPORATION Ltd. P.O- Rahargora, Jojobera, Jamshedpur- 831016	Sample I'd : AEL/18/139 Date : 09.02.2018 Period of testing : 09.02.2018 to 12.02.2018

SAMPLE PARTICULARS:

Type of the Sample	Ambient Air Sample
Date of Sampling	07.02.2018 to 08.02.2018
Point of Sample Collection	Near Auto Garage
Sample Collected By	Lab Rep.
Purpose of Analysis	Monitoring

SAMPLE OBSERVATIONS

Sampling flow rate (m ³ /min.)	1.18
Period of sampling (minutes)	1455.6
Total volume of air sampled (m ³)	1717.6

Sr. No.	Parameters	Unit	Results	Standards Limit	Test Protocol
1	Particulate Matter(PM ₁₀)	µg/m ³	86.4	100	IS: 5182,(P-23)
2	Particulate Matter(PM _{2.5})	µg/m ³	52.1	60	PM _{2.5} Sampler (Gravimetric)
3	Sulphur Dioxide (SOX)	µg/m ³	47.4	80	IS: 5182,(P-2)
4	Nitrogen Dioxide (NOX)	µg/m ³	48.9	80	IS: 5182,(P-6)


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Test Report

Report No.: AEL/2018/140	Reporting Date: 15/02/2018
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Issued to: M/S NUVOCO VISTAS CORPORATION Ltd. P.O- Rahargora, Jojobera, Jamshedpur- 831016	Sample I'd : AEL/18/140 Date : 09.02.2018 Period of testing : 09.02.2018 to 12.02.2018
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SAMPLE PARTICULARS:

Type of the Sample	Ambient Air Sample
Date of Sampling	07.02.2018 to 08.02.2018
Point of Sample Collection	Near Material Gate
Sample Collected By	Lab Rep.
Purpose of Analysis	Monitoring

SAMPLE OBSERVATIONS

Sampling flow rate (m ³ /min.)	1.17
Period of sampling (minutes)	1452.6
Total volume of air sampled (m ³)	1699.5

Sr. No.	Parameters	Unit	Results	Standards Limit	Test Protocol
1	Particulate Matter(PM ₁₀)	µg/m ³	86.8	100	IS: 5182,(P-23)
2	Particulate Matter(PM _{2.5})	µg/m ³	53.4	60	PM _{2.5} Sampler (Gravimetric)
3	Sulphur Dioxide (SO ₂)	µg/m ³	59.6	80	IS: 5182,(P-2)
4	Nitrogen Dioxide (NO ₂)	µg/m ³	44.8	80	IS: 5182,(P-6)


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Test Report

Report No.: AEL/2018/141	Reporting Date: 15/02/2018
Issued to: M/S NUVOCO VISTAS CORPORATION Ltd. P.O- Rahargora, Jojobera, Jamshedpur-831016	Sample I'd : AEL/18/141 Date : 09.02.2018 Period of testing : 09.02.2018 to 12.02.2018

SAMPLE PARTICULARS:	
Type of the Sample	Ambient Air Sample
Date of Sampling	07.02.2018 to 08.02.2018
Point of Sample Collection	Near Gypsum Yard
Sample Collected By	Lab Rep.
Purpose of Analysis	Monitoring

SAMPLE OBSERVATIONS	
Sampling flow rate (m³/min.)	1.23
Period of sampling (minutes)	1456.8
Total volume of air sampled (m³)	1791.9

Sr. No.	Parameters	Unit	Results	Standards Limit	Test Protocol
1	Particulate Matter(PM ₁₀)	µg/m ³	75.8	100	IS: 5182,(P-23)
2	Particulate Matter(PM _{2.5})	µg/m ³	40.5	60	PM 2.5 Sampler (Gravimetric)
3	Sulphur Dioxide (SOX)	µg/m ³	51.4	80	IS: 5182,(P-2)
4	Nitrogen Dioxide (NOX)	µg/m ³	40.2	80	IS: 5182,(P-6)

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Test Report

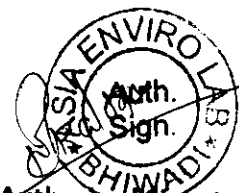
Report No.: AEL/2018/142 Reporting Date: 15/02/2018

Issued to: M/S NUVOCO VISTAS CORPORATION Ltd. P.O- Rahargora, Jojobera, Jamshedpur- 831016	Sample I'd : AEL/18/142 Date : 09.02.2018
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SAMPLE PARTICULARS:	
Type of the Sample	Noise Level Testing (Ambient Air)
Date of Sampling	07.02.2018 to 08.02.2018
Sample Collected By	Lab Rep.
Purpose of Analysis	Monitoring

Sr. No.	Sampling Location	Units	Results		Standards Limit as per CPCB
			Day	Night	
1.	Nr. Time Office	dB(A)	67.5	60.6	75 db(A) (Day Time) & 70 dB(A) Night Time


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Test Report

Report No.: AEL/2018/143	Reporting Date: 15/02/2018
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Issued to: M/S NUVOCO VISTAS CORPORATION Ltd. P.O- Rahargora, Jojobera, Jamshedpur-831016	Sample I'd : AEL/18/143 Date : 09.02.2018
--	--

SAMPLE PARTICULARS:	
Type of the Sample	Noise Level Testing (Ambient Air)
Date of Sampling	07.02.2018 to 08.02.2018
Sample Collected By	Lab Rep.
Purpose of Analysis	Monitoring

Sr. No.	Sampling Location	Units	Results		Standards Limit as per CPCB
			Day	Night	
1.	Nr. Material Gate	dB(A)	72.1	67.4	75 db(A) (Day Time) & 70 dB(A) Night Time


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Test Report

Report No.: AEL/2018/144	Reporting Date: 15/02/2018
Issued to: M/S NUVOCO VISTAS CORPORATION Ltd. P.O- Rahargora, Jojobera, Jamshedpur-831016	Sample I'd : AEL/18/144 Date : 09.02.2018

SAMPLE PARTICULARS:	
Type of the Sample	Noise Level Testing (Ambient Air)
Date of Sampling	07.02.2018 to 08.02.2018
Sample Collected By	Lab Rep.
Purpose of Analysis	Monitoring

Sr. No.	Sampling Location	Units	Results		Standards Limit as per CPCB
			Day	Night	
1.	Nr. Railway Gate	dB(A)	71.5	68.4	75 db(A) (Day Time) & 70 dB(A) Night Time


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