



Asia Enviro Lab

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

AEL

Job Description : Environmental Testing, ETP/STP Manufacturing, ETP/STP Plant Operation Pollut.on 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/2017/621 Reporting Date: 27/12/2017

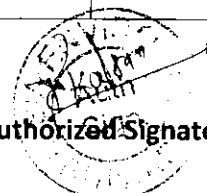
Issued to: M/S NUVOCO VISTAS CORPORATION Ltd. P.O- Rahargora, Jojobera, Jamshedpur- 831016	Sample I'd : AEL/17/621 Date : 23.12.2017 Period of testing : 23.12.2017 to 27.12.2017
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SAMPLE PARTICULARS:	
Type of the Sample	Process Stack Emission
Date of Sampling	21.12.2017
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	71
Flue gas velocity, m/sec	9.52
Sampling flow rate, liter per minute	16

Sr. No.	Parameters	Unit	Results	Standards Limit	Test Protocol
1	PM(Particulate Matter)	mg/Nm ³	21.53	30	IS 11255(P-1)
2	Sulphur Dioxide (SOX)	mg/Nm ³	39.63	--	IS 11255(P-2)
3	Oxides of Nitrogen(NO ₂)	mg/Nm ³	33.4	--	IS 11255(P-7)
4	Carbon Mono Oxide(CO)	mg/Nm ³	0.21	--	BY CO METER
5	Oxygen (O ₂)	%	19.8	--	BY Orset Method


Checked By


Authorized Signatory

Note: 1. The result listed refer only to the tested samples and applicable parameters.
2. Sample will be destroyed one month from the date of issue of test certificate.
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Test Report

Report No.: AEL/2017/622	Reporting Date: 27/12/2017
Issued to: M/S NUVOCO VISTAS CORPORATION Ltd. P.O- Rahargora, Jojobera, Jamshedpur- 831016	Sample I'd : AEL/17/622 Date : 23.12.2017 Period of testing : 23.12.2017 to 27.12.2017

SAMPLE PARTICULARS:	
Type of the Sample	Process Stack Emission
Date of Sampling	21.12.2017
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	68
Flue gas velocity, m/sec	9.1
Sampling flow rate, liter per minute	16

Sr. No.	Parameters	Unit	Results	Standards Limit	Test Protocol
1	PM(Particulate Matter)	mg/Nm ³	24.1	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/2017/623 Reporting Date: 27/12/2017

Issued to: M/S NUVOCO VISTAS CORPORATION Ltd. P.O- Rahargora, Jojobera, Jamshedpur-831016	Sample I'd : AEL/17/623 Date : 23.12.2017 Period of testing : 23.12.2017 to 27.12.2017
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SAMPLE PARTICULARS:

Type of the Sample	Process Stack Emission
Date of Sampling	21.12.2017
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	86
Flue gas velocity, m/sec	9.83
Sampling flow rate, liter per minute	16

Sr. No.	Parameters	Unit	Results	Standards Limit	Test Protocol
1	PM(Particulate Matter)	mg/Nm ³	19.2	30	IS 11255(P-1)
2	Sulphur Dioxide (SOX)	mg/Nm ³	42.3	--	IS 11255(P-2)
3	Oxides of Nitrogen(NO ₂)	mg/Nm ³	53.5	--	IS 11255(P-7)
4	Carbon Mono Oxide(CO)	mg/Nm ³	0.24	--	BY CO METER
5	Oxygen (O ₂)	%	19.8	--	BY Orset Method

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Test Report

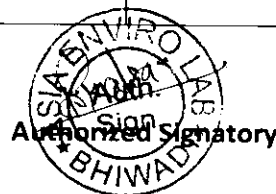
Report No.: AEL/2017/624	Reporting Date: 27/12/2017
Issued to: M/S NUVOCO VISTAS CORPORATION Ltd. P.O- Rahargora, Jojobera, Jamshedpur-831016	Sample I'd : AEL/17/624 Date : 23.12.2017 Period of testing : 23.12.2017 to 27.12.2017

SAMPLE PARTICULARS:	
Type of the Sample	Process Stack Emission
Date of Sampling	21.12.2017
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	71
Flue gas velocity, m/sec	9.41
Sampling flow rate, liter per minute	15

Sr. No.	Parameters	Unit	Results	Standards Limit	Test Protocol
1	PM(Particulate Matter)	mg/Nm ³	15.3	30	IS 11255(P-1)
2	Sulphur Dioxide (SOX)	mg/Nm ³	45.6	--	IS 11255(P-2)
3	Oxides of Nitrogen(NO ₂)	mg/Nm ³	34.5	--	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/2017/625	Reporting Date: 27/12/2017
Issued to: M/S NUVOCO VISTAS CORPORATION Ltd. P.O- Rahargora, Jojobera, Jamshedpur-831016	Sample I'd : AEL/17/625 Date : 23.12.2017 Period of testing : 23.12.2017 to 27.12.2017

SAMPLE PARTICULARS:	
Type of the Sample	Process Stack Emission
Date of Sampling	21.12.2017
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	59
Flue gas velocity, m/sec	7.91
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/2017/626 Reporting Date: 27/12/2017

Issued to: M/S NUVOCO VISTAS CORPORATION Ltd. P.O- Rahargora, Jojobera, Jamshedpur-831016	Sample I'd : AEL/17/626 Date : 23.12.2017 Period of testing : 23.12.2017 to 27.12.2017
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SAMPLE PARTICULARS:

Type of the Sample	Process Stack Emission
Date of Sampling	21.12.2017
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	76
Flue gas velocity, m/sec	9.41
Sampling flow rate, liter per minute	15

Sr. No.	Parameters	Unit	Results	Standards Limit	Test Protocol
1	PM(Particulate Matter)	mg/Nm ³	26.1	30	IS 11255(P-1)
2	Sulphur Dioxide (SOX)	mg/Nm ³	43.2	--	IS 11255(P-2)
3	Oxides of Nitrogen(NO ₂)	mg/Nm ³	35.1	--	IS 11255(P-7)
4	Carbon Mono Oxide(CO)	mg/Nm ³	0.35	--	BY CO METER
5	Oxygen (O ₂)	%	18.0	--	BY Orset Method

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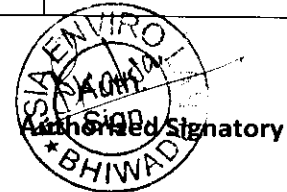
Report No.: AEL/2017/627	Reporting Date: 27/12/2017
Issued to: M/S NUVOCO VISTAS CORPORATION Ltd. P.O- Rahargora, Jojobera, Jamshedpur-831016	Sample I'd : AEL/17/627 Date : 23.12.2017 Period of testing : 23.12.2017 to 27.12.2017

SAMPLE PARTICULARS:	
Type of the Sample	Process Stack Emission
Date of Sampling	21.12.2017
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	8.52
Sampling flow rate, liter per minute	16

Sr. No.	Parameters	Unit	Results	Standards Limit	Test Protocol
1	PM(Particulate Matter)	mg/Nm ³	17.9	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/2017/628 Reporting Date:27/12/2017

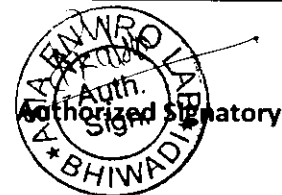
Issued to: M/S NUVOCO VISTAS CORPORATION Ltd. P.O- Rahargora, Jojobera, Jamshedpur-831016	Sample I'd : AEL/17/628 Date : 23.12.2017 Period of testing : 23.12.2017 to 27.12.2017
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SAMPLE PARTICULARS:	
Type of the Sample	Process Stack Emission
Date of Sampling	21.12.2017
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	52
Flue gas velocity, m/sec	8.82
Sampling flow rate, liter per minute	16

Sr. No.	Parameters	Unit	Results	Standards Limit	Test Protocol
1	PM(Particulate Matter)	mg/Nm ³	17.8	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/2017/629 Reporting Date: 27/12/2017

Issued to: M/S NUVOCO VISTAS CORPORATION Ltd. P.O- Rahargora, Jojobera, Jamshedpur-831016	Sample I'd : AEL/17/629 Date : 23.12.2017 Period of testing : 23.12.2017 to 27.12.2017
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SAMPLE PARTICULARS:	
Type of the Sample	Process Stack Emission
Date of Sampling	21.12.2017
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	56
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	20.6	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

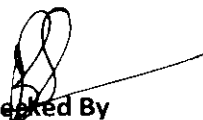
Report No.: AEL/2017/630 Reporting Date: 27/12/2017

Issued to: M/S NUVOCO VISTAS CORPORATION Ltd. P.O- Rahargora, Jojobera, Jamshedpur- 831016	Sample I'd : AEL/17/630 Date : 23.12.2017 Period of testing : 23.12.2017 to 27.12.2017
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SAMPLE PARTICULARS:	
Type of the Sample	Process Stack Emission
Date of Sampling	21.12.2017
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	46
Flue gas velocity, m/sec	8.51
Sampling flow rate, liter per minute	16

Sr. No.	Parameters	Unit	Results	Standards Limit	Test Protocol
1	PM(Particulate Matter)	mg/Nm ³	17.1	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/2017/631	Reporting Date: 27/12/2017
Issued to: M/S NUVOCO VISTAS CORPORATION Ltd. P.O- Rahargora, Jojobera, Jamshedpur- 831016	Sample I'd : AEL/17/631 Date : 23.12.2017 Period of testing : 23.12.2017 to 27.12.2017

SAMPLE PARTICULARS:	
Type of the Sample	Process Stack Emission
Date of Sampling	21.12.2017
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	58
Flue gas velocity, m/sec	9.3
Sampling flow rate, liter per minute	16

Sr. No.	Parameters	Unit	Results	Standards Limit	Test Protocol
1	PM(Particulate Matter)	mg/Nm ³	25.6	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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Ph. No. : 09694666022, Email : asiaenvirolab@gmail.com , Website : www.asiaenvirolab.com

Test Report

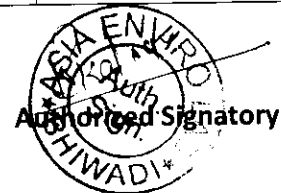
Report No.: AEL/2017/632	Reporting Date: 27/12/2017
Issued to: M/S NUVOCO VISTAS CORPORATION Ltd. P.O- Rahargora, Jojobera, Jamshedpur-831016	Sample I'd : AEL/17/632 Date : 23.12.2017 Period of testing : 23.12.2017 to 27.12.2017

SAMPLE PARTICULARS:	
Type of the Sample	Process Stack Emission
Date of Sampling	21.12.2017
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	21
Stack Temperature, °C	51
Flue gas velocity, m/sec	8.58
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	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

Checked By 



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Report No.: AEL/2017/633	Reporting Date: 27/12/2017
Issued to: M/S NUVOCO VISTAS CORPORATION Ltd. P.O- Rahargora, Jojobera, Jamshedpur-831016	Sample I'd : AEL/17/633 Date : 23.12.2017 Period of testing : 23.12.2017 to 27.12.2017

SAMPLE PARTICULARS:

Type of the Sample	Process Stack Emission
Date of Sampling	21.12.2017
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	21
Stack Temperature, °C	53
Flue gas velocity, m/sec	8.42
Sampling flow rate, liter per minute	15

Sr. No.	Parameters	Unit	Results	Standards Limit	Test Protocol
1	PM(Particulate Matter)	mg/Nm ³	18.1	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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Authorized Signatory



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Test Report

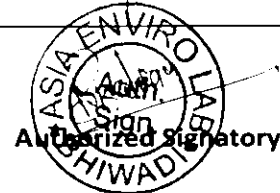
Report No.: AEL/2017/634	Reporting Date: 27/12/2017
Issued to: M/S NUVOCO VISTAS CORPORATION Ltd. P.O- Rahargora, Jojobera, Jamshedpur-831016	Sample I'd : AEL/17/634 Date : 23.12.2017 Period of testing : 23.12.2017 to 27.12.2017

SAMPLE PARTICULARS:	
Type of the Sample	Process Stack Emission
Date of Sampling	21.12.2017
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	21
Stack Temperature, °C	68
Flue gas velocity, m/sec	9.72
Sampling flow rate, liter per minute	18

Sr. No.	Parameters	Unit	Results	Standards Limit	Test Protocol
1	PM(Particulate Matter)	mg/Nm ³	16.1	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/2017/635 Reporting Date: 27/12/2017

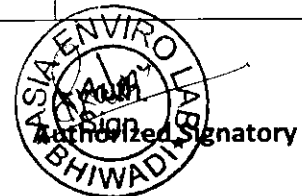
Issued to: M/S NUVOCO VISTAS CORPORATION Ltd. P.O- Rahargora, Jojobera, Jamshedpur- 831016	Sample I'd : AEL/17/635 Date : 23.12.2017 Period of testing : 23.12.2017 to 27.12.2017
--	--

SAMPLE PARTICULARS:	
Type of the Sample	Process Stack Emission
Date of Sampling	21.12.2017
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	21
Stack Temperature, °C	50
Flue gas velocity, m/sec	8.44
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/2017/636 Reporting Date: 27/12/2017

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SAMPLE PARTICULARS:	
Type of the Sample	Process Stack Emission
Date of Sampling	21.12.2017
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	21
Stack Temperature, °C	61
Flue gas velocity, m/sec	9.53
Sampling flow rate, liter per minute	18

Sr. No.	Parameters	Unit	Results	Standards Limit	Test Protocol
1	PM(Particulate Matter)	mg/Nm ³	25.4	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/2017/637	Reporting Date: 27/12/2017
Issued to: M/S NUVOCO VISTAS CORPORATION Ltd. P.O- Rahargora, Jojobera, Jamshedpur-831016	Sample I'd : AEL/17/637 Date : 23.12.2017 Period of testing : 23.12.2017 to 27.12.2017

SAMPLE PARTICULARS:	
Type of the Sample	Process Stack Emission
Date of Sampling	21.12.2017
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	21
Stack Temperature, °C	60
Flue gas velocity, m/sec	9.37
Sampling flow rate, liter per minute	17

Sr. No.	Parameters	Unit	Results	Standards Limit	Test Protocol
1	PM(Particulate Matter)	mg/Nm ³	26.4	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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Test Report

Report No.: AEL/2017/638 Reporting Date: 27/12/2017

Issued to: M/S NUVOCO VISTAS CORPORATION Ltd. P.O- Rahargora, Jojobera, Jamshedpur- 831016	Sample I'd : AEL/17/638 Date : 23.12.2017 Period of testing : 23.12.2017 to 27.12.2017
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SAMPLE PARTICULARS:	
Type of the Sample	Process Stack Emission
Date of Sampling	21.12.2017
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	21
Stack Temperature, °C	41
Flue gas velocity, m/sec	7.89
Sampling flow rate, liter per minute	17

Sr. No.	Parameters	Unit	Results	Standards Limit	Test Protocol
1	PM(Particulate Matter)	mg/Nm ³	17.6	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/2017/639 Reporting Date: 27/12/2017

Issued to: M/S NUVOCO VISTAS CORPORATION Ltd. P.O- Rahargora, Jojobera, Jamshedpur- 831016	Sample I'd : AEL/17/639 Date : 23.12.2017 Period of testing : 23.12.2017 to 27.12.2017
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SAMPLE PARTICULARS:

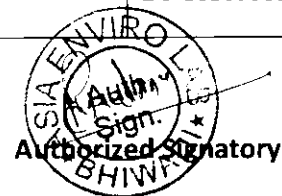
Type of the Sample	Process Stack Emission
Date of Sampling	21.12.2017
Stack Attach to	Bag Filter No.-662 BF-1
Emission due to	Process Activity(Packing Plant)
Stack height(From the Ground level)	40 Meter
Stack diameter	1.28 Meter
Sample Collected By	Lab Rep.
Purpose of Analysis	Monitoring

SAMPLE OBSERVATIONS

Ambient Temperature, °C	21
Stack Temperature, °C	38
Flue gas velocity, m/sec	8.30
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/2017/640 Reporting Date: 27/12/2017

Issued to: M/S NUVOCO VISTAS CORPORATION Ltd. P.O- Rahargora, Jojobera, Jamshedpur- 831016	Sample I'd : AEL/17/640 Date : 23.12.2017 Period of testing : 23.12.2017 to 27.12.2017
--	---

SAMPLE PARTICULARS:	
Type of the Sample	Process Stack Emission
Date of Sampling	21.12.2017
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	21
Stack Temperature, °C	41
Flue gas velocity, m/sec	8.44
Sampling flow rate, liter per minute	16

Sr. No.	Parameters	Unit	Results	Standards Limit	Test Protocol
1	PM(Particulate Matter)	mg/Nm ³	20.3	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/2017/641 Reporting Date: 27/12/2017

Issued to: M/S NUVOCO VISTAS CORPORATION Ltd. P.O- Rahargora, Jojobera, Jamshedpur- 831016	Sample I'd : AEL/17/641 Date : 23.12.2017 Period of testing : 23.12.2017 to 27.12.2017
--	--

SAMPLE PARTICULARS:	
Type of the Sample	Process Stack Emission
Date of Sampling	21.12.2017
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	21
Stack Temperature, °C	85
Flue gas velocity, m/sec	10.7
Sampling flow rate, liter per minute	18

Sr. No.	Parameters	Unit	Results	Standards Limit	Test Protocol
1	PM(Particulate Matter)	mg/Nm ³	25.9	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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--	---

SAMPLE PARTICULARS:	
Type of the Sample	Process Stack Emission
Date of Sampling	21.12.2017
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	21
Stack Temperature, °C	78
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	18.5	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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Lab - C-4, Commercial Complex, Near Super Saver Bazar, Sector-6, U.I.T., Bhiwadi, Distt. Alwar (Rajasthan) - 301019

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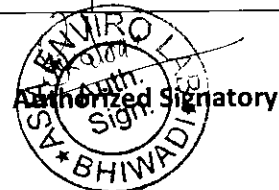
Test Report

Report No.: AEL/2017/643	Reporting Date: 27/12/2017
Issued to: M/S NUVOCO VISTAS CORPORATION Ltd. P.O- Rahargora, Jojobera, Jamshedpur-831016	Sample I'd : AEL/17/643 Date : 23.12.2017 Period of testing : 23.12.2017 to 27.12.2017

SAMPLE PARTICULARS:	
Type of the Sample	Treated Sewage Water Sample
Date of Sample Receiving	21.12.2017
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	--	7.45	5.5-9.0	IS-3025 (P-11)
2	COD	mg/l	49.8	250	IS-3025 (P-58)
3	BOD (at 27°C for 3 days)	mg/l	12.1	30	IS-3025 (P-44)
4	Total Suspended Solids	mg/l	14.0	100	IS-3025 (P-17)
5	Oil & Grease	mg/l	2.2	10	IS-3025 (P-39)
6	Total Dissolved Solids	mg/l	1080	--	IS-3025(P-16)
7	Total Hardness,(as CaCO ₃)	mg/l	174.6	--	IS-3025(P-21)
8	Calcium Hardness, (as Ca)	mg/l	42.0	--	IS-3025(P-40)
9	Magnesium Hardness,(as Mg)	mg/l	17.0	--	IS-3025(P-46)
10	Sulphate,(as SO ₄)	mg/l	68.4	--	IS-3025(P-24)

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2. Sample will be destroyed one month from the date of issue of test certificate.

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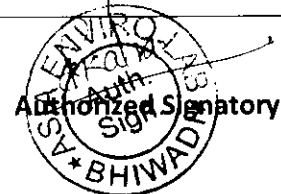
Test Report

Report No.: AEL/2017/644	Reporting Date: 27/12/2017
Issued to: M/S NUVOCO VISTAS CORPORATION Ltd. P.O- Rahargora, Jojobera, Jamshedpur-831016	Sample I'd : AEL/17/644 Date : 23.12.2017 Period of testing : 23.12.2017 to 27.12.2017

SAMPLE PARTICULARS:	
Type of the Sample	Effluent Water Sample
Date of Sample Receiving	21.12.2017
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	--	7.51	5.5-9.0	IS-3025 (P-11)
2	COD	mg/l	58.9	250	IS-3025 (P-58)
3	BOD (at 27°C for 3 days)	mg/l	12.8	30	IS-3025 (P-44)
4	Total Suspended Solids	mg/l	19.0	100	IS-3025 (P-17)
5	Oil & Grease	mg/l	2.6	10	IS-3025 (P-39)
6	Total Dissolved Solids	mg/l	1286	--	IS-3025(P-16)
7	Total Hardness,(as CaCO ₃)	mg/l	148.6	--	IS-3025(P-21)
8	Calcium Hardness, (as Ca)	mg/l	36.0	--	IS-3025(P-40)
9	Magnesium Hardness,(as Mg)	mg/l	14.3	--	IS-3025(P-46)
10	Sulphate,(as SO ₄)	mg/l	84.8	--	IS-3025(P-24)

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Test Report

Report No.: AEL/2017/645 Reporting Date: 27/12/2017

Issued to: M/S NUVOCO VISTAS CORPORATION Ltd. P.O- Rahargora, Jojobera, Jamshedpur-831016	Sample I'd : AEL/17/645 Date : 23.12.2017 Period of testing : 23.12.2017 to 27.12.2017
--	---

SAMPLE PARTICULARS:	
Type of the Sample	Ambient Air Sample
Date of Sampling	20.12.2017 to 21.12.2017
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.)	1.20
Period of sampling (minutes)	1443.0
Total volume of air sampled (m ³)	1731.6

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	44.3	60	PM _{2.5} Sampler (Gravimetric)
3.	Sulphur Dioxide (SOX)	µg/m ³	36.4	80	IS: 5182,(P-2)
4.	Nitrogen Dioxide (NOX)	µg/m ³	42.5	80	IS: 5182,(P-6)

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Test Report

Report No.: AEL/2017/646 Reporting Date: 27/12/2017

Issued to: M/S NUVOCO VISTAS CORPORATION Ltd. P.O- Rahargora, Jojobera, Jamshedpur- 831016	Sample I'd : AEL/17/646 Date : 23.12.2017 Period of testing : 23.12.2017 to 27.12.2017
--	--

SAMPLE PARTICULARS:

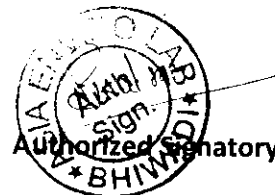
Type of the Sample	Ambient Air Sample
Date of Sampling	20.12.2017 to 21.12.2017
Point of Sample Collection	Near Time Office
Sample Collected By	Lab Rep.
Purpose of Analysis	Monitoring

SAMPLE OBSERVATIONS

Sampling flow rate (m ³ /min.)	1.22
Period of sampling (minutes)	1447.8
Total volume of air sampled (m ³)	1766.3

Sr. No.	Parameters	Unit	Results	Standards Limit	Test Protocol
1.	Particulate Matter(PM ₁₀)	µg/m ³	79.8	100	IS: 5182,(P-23)
2.	Particulate Matter(PM _{2.5})	µg/m ³	40.1	60	PM 2.5 Sampler (Gravimetric)
3.	Sulphur Dioxide (SOX)	µg/m ³	33.9	80	IS: 5182,(P-2)
4.	Nitrogen Dioxide (NOX)	µg/m ³	40.4	80	IS: 5182,(P-6)

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Test Report

Report No.: AEL/2017/647 Reporting Date: 27/12/2017

Issued to: M/S NUVOCO VISTAS CORPORATION Ltd. P.O- Rahargora, Jojobera, Jamshedpur- 831016	Sample I'd : AEL/17/647 Date : 23.12.2017 Period of testing : 23.12.2017 to 27.12.2017
--	---

SAMPLE PARTICULARS:

Type of the Sample	Ambient Air Sample
Date of Sampling	20.12.2017 to 21.12.2017
Point of Sample Collection	Near Auto Garage
Sample Collected By	Lab Rep.
Purpose of Analysis	Monitoring

SAMPLE OBSERVATIONS

Sampling flow rate (m³/min.)	1.27
Period of sampling (minutes)	1451.4
Total volume of air sampled (m³)	1843.3

Sr. No.	Parameters	Unit	Results	Standards Limit	Test Protocol
1	Particulate Matter(PM ₁₀)	µg/m ³	83.6	100	IS: 5182,(P-23)
2	Particulate Matter(PM _{2.5})	µg/m ³	46.8	60	PM 2.5 Sampler (Gravimetric)
3	Sulphur Dioxide (SOX)	µg/m ³	35.2	80	IS: 5182,(P-2)
4	Nitrogen Dioxide (NOX)	µg/m ³	42.4	80	IS: 5182,(P-6)

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Test Report

Report No.: AEL/2017/648 Reporting Date: 27/12/2017

Issued to: M/S NUVOCO VISTAS CORPORATION Ltd. P.O- Rahargora, Jojobera, Jamshedpur- 831016	Sample I'd : AEL/17/648 Date : 23.12.2017 Period of testing : 23.12.2017 to 27.12.2017
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SAMPLE PARTICULARS:	
Type of the Sample	Ambient Air Sample
Date of Sampling	20.12.2017 to 21.12.2017
Point of Sample Collection	Near Material Gate
Sample Collected By	Lab Rep.
Purpose of Analysis	Monitoring

SAMPLE OBSERVATIONS	
Sampling flow rate (m ³ /min.)	1.18
Period of sampling (minutes)	1446.6
Total volume of air sampled (m ³)	1707.0

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	48.3	60	PM 2.5 Sampler (Gravimetric)
3	Sulphur Dioxide (SOX)	µg/m ³	38.5	80	IS: 5182,(P-2)
4	Nitrogen Dioxide (NOX)	µg/m ³	48.8	80	IS: 5182,(P-6)

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Test Report

Report No.: AEL/2017/649	Reporting Date: 27/12/2017
Issued to: M/S NUVOCO VISTAS CORPORATION Ltd. P.O- Rahargora, Jojobera, Jamshedpur-831016	Sample I'd : AEL/17/649 Date : 23.12.2017 Period of testing : 23.12.2017 to 27.12.2017

SAMPLE PARTICULARS:	
Type of the Sample	Ambient Air Sample
Date of Sampling	20.12.2017 to 21.12.2017
Point of Sample Collection	Near Gypsum Yard
Sample Collected By	Lab Rep.
Purpose of Analysis	Monitoring

SAMPLE OBSERVATIONS	
Sampling flow rate (m ³ /min.)	1.17
Period of sampling (minutes)	1441.8
Total volume of air sampled (m ³)	1686.9

Sr. No.	Parameters	Unit	Results	Standards Limit	Test Protocol
1	Particulate Matter(PM ₁₀)	µg/m ³	72.1	100	IS: 5182,(P-23)
2	Particulate Matter(PM _{2.5})	µg/m ³	34.8	60	PM _{2.5} Sampler (Gravimetric)
3	Sulphur Dioxide (SOX)	µg/m ³	28.6	80	IS: 5182,(P-2)
4	Nitrogen Dioxide (NOX)	µg/m ³	37.4	80	IS: 5182,(P-6)

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Test Report

Report No.: AEL/2017/650	Reporting Date: 27/12/2017
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Issued to: M/S NUVOCO VISTAS CORPORATION Ltd. P.O- Rahargora, Jojobera, Jamshedpur- 831016	Sample I'd : AEL/17/650 Date : 23.12.2017 Period of testing : 23.12.2017 to 27.12.2017
--	--

SAMPLE PARTICULARS:	
Type of the Sample	Noise Level Testing (Ambient Air)
Date of Sampling	20.12.2017 to 21.12.2017
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)	63.8	56.9	75 db(A) (Day Time) & 70 dB(A) Night Time


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Test Report

Report No.: AEL/2017/651 Reporting Date: 27/12/2017

Issued to: M/S NUVOCO VISTAS CORPORATION Ltd. P.O- Rahargora, Jojobera, Jamshedpur- 831016	Sample I'd : AEL/17/651 Date : 23.12.2017 Period of testing : 23.12.2017 to 27.12.2017
--	---

SAMPLE PARTICULARS:	
Type of the Sample	Noise Level Testing (Ambient Air)
Date of Sampling	20.12.2017 to 21.12.2017
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)	70.8	67.3	75 db(A) (Day Time) & 70 dB(A) Night Time

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Test Report

Report No.: AEL/2017/652 Reporting Date: 27/12/2017

Issued to: M/S NUVOCO VISTAS CORPORATION Ltd. P.O- Rahargora, Jojobera, Jamshedpur- 831016	Sample I'd : AEL/17/652 Date : 23.12.2017 Period of testing : 23.12.2017 to 27.12.2017
--	---

SAMPLE PARTICULARS:	
Type of the Sample	Noise Level Testing (Ambient Air)
Date of Sampling	20.12.2017 to 21.12.2017
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)	68.9	60.2	75 db(A) (Day Time) & 70 dB(A) Night Time

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Test Report

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SAMPLE PARTICULARS:	
Type of the Sample	Drinking Water Sample
Date of Sample Receiving	21.12.2017
Point of Sample Collection	From Canteen
Sample Collected By	Customer
Purpose of Analysis	Monitoring

TEST RESULTS:						
Sr. No.	Parameters	Unit	Results	Drinking Water Specifications (As per IS-10500)		Test Protocol
				Desirable Limits	Permissible Limits in the absence of better alternate source	
1	Colour	Hazen	<5	5 max.	15 max.	IS-3025(P-4)
2	Odour	--	Agreeable	Agreeable	Agreeable	IS-3025(P-5)
3	Taste	--	Agreeable	Agreeable	Agreeable	IS-3025(P-7)
4	Turbidity	NTU	<1	1 max.	5 max.	IS-3025(P-10)
5	pH	--	7.38	6.5 - 8.5	No relaxation	IS-3025(P-11)
6	Total Hardness,(as CaCO ₃)	mg/l	32.9	200 max.	600 max.	IS-3025(P-21)
7	Iron,(as Fe)	mg/l	< 0.05	0.30 max.	No relaxation.	APHA 22 nd Ed.
8	Chloride,(as Cl)	mg/l	14.1	250 max.	1000 max.	IS-3025(P-32)
9	Calcium Hardness, (as Ca)	mg/l	7.2	75 max.	200 max.	IS-3025(P-40)
10	Magnesium Hardness,(as Mg)	mg/l	3.6	30 max.	100 max.	IS-3025(P-46)
11	Total Dissolved Solids	mg/l	81.0	500 max.	2000 max.	IS-3025(P-16)
12	Sulphate,(as SO ₄)	mg/l	4.0	200 max.	400 max.	IS-3025(P-24)
13	Total Alkalinity,(as CaCO ₃)	mg/l	34.5	200 max.	600 max.	IS-3025(P-23)
Bacteriological Test Results						
14	Coli form organisms/100 ml(MPN)	--	<1	Less than 1	No relaxation	IS-1622:1981

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