

**M/s NUVOCO VISTAS CORPORATION LIMITED**

JOJOBERA, JAMSHEPDUR

**ENVIRONMENTAL MONITORING REPORT**

**FOR THE MONTH OF**

**March 2018**

PREPARED BY

**ASIA ENVIRO LAB**



# 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/2018/193	Reporting Date:13/03/2018
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Issued to: <b>M/S NUVOCO VISTAS CORPORATION Ltd.</b> P.O- Rahargora, Jojobera, Jamshedpur- 831016	Sample I'd : AEL/18/193 Date : 07.03.2018 Period of testing : 07.03.2018 to 12.03.2018
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SAMPLE PARTICULARS:	
Type of the Sample	Furnace Stack Emission
Date of Sampling	05.03.2018
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	24
Stack Temperature, °C	73
Flue gas velocity, m/sec	9.63
Sampling flow rate, liter per minute	16

Sr. No.	Parameters	Unit	Results	Standards Limit	Test Protocol
1	PM(Particulate Matter)	mg/Nm <sup>3</sup>	23.21	30	IS 11255(P-1)
2	Sulphur Dioxide (SOX)	mg/Nm <sup>3</sup>	41.56	--	IS 11255(P-2)
3	Oxides of Nitrogen(NO <sub>2</sub> )	mg/Nm <sup>3</sup>	32.1	--	IS 11255(P-7)
4	Carbon Mono Oxide(CO)	mg/Nm <sup>3</sup>	0.23	--	BY CO METER
5	Oxygen (O <sub>2</sub> )	%	20.2	--	BY Orset Method

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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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**AEL**

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## Test Report

Report No.: AEL/2018/194 Reporting Date:13/03/2018

Issued to: <b>M/S NUVOCO VISTAS CORPORATION Ltd.</b> P.O- Rahargora, Jojobera, Jamshedpur-831016	Sample I'd : AEL/18/194 Date : 07.03.2018 Period of testing : 07.03.2018 to 12.03.2018
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SAMPLE PARTICULARS:	
Type of the Sample	Process Stack Emission
Date of Sampling	05.03.2018
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	24
Stack Temperature, °C	65
Flue gas velocity, m/sec	8.8
Sampling flow rate, liter per minute	16

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

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## Test Report

Report No.: AEL/2018/195 Reporting Date: 13/03/2018


Issued to: <b>M/S NUVOCO VISTAS CORPORATION Ltd.</b> P.O- Rahargora, Jojobera, Jamshedpur- 831016	Sample I'd : AEL/18/195 Date : 07.03.2018 Period of testing : 07.03.2018 to 12.03.2018
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SAMPLE PARTICULARS:	
Type of the Sample	Furnace Stack Emission
Date of Sampling	05.03.2018
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	24
Stack Temperature, °C	82
Flue gas velocity, m/sec	9.71
Sampling flow rate, liter per minute	16

Sr. No.	Parameters	Unit	Results	Standards Limit	Test Protocol
1	PM(Particulate Matter)	mg/Nm <sup>3</sup>	20.5	30	IS 11255(P-1)
2	Sulphur Dioxide (SOX)	mg/Nm <sup>3</sup>	41.3	--	IS 11255(P-2)
3	Oxides of Nitrogen(NO <sub>2</sub> )	mg/Nm <sup>3</sup>	55.2	--	IS 11255(P-7)
4	Carbon Mono Oxide(CO)	mg/Nm <sup>3</sup>	0.26	--	BY CO METER
5	Oxygen (O <sub>2</sub> )	%	19.2	--	BY Orset Method

  
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## Test Report

Report No.: AEL/2018/196	Reporting Date: 13/03/2018
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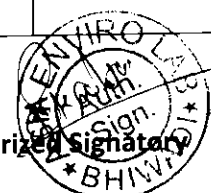
Issued to: <b>M/S NUVOCO VISTAS CORPORATION Ltd.</b> P.O- Rahargora, Jojobera, Jamshedpur- 831016	<b>Sample I'd</b> : AEL/18/196
	<b>Date</b> : 07.03.2018
	<b>Period of testing</b> : 07.03.2018 to 12.03.2018

SAMPLE PARTICULARS:	
Type of the Sample	Furnace Stack Emission
Date of Sampling	05.03.2018
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	24
Stack Temperature, °C	68
Flue gas velocity, m/sec	9.32
Sampling flow rate, liter per minute	15

Sr. No.	Parameters	Unit	Results	Standards Limit	Test Protocol
1	PM(Particulate Matter)	mg/Nm <sup>3</sup>	16.10	30	IS 11255(P-1)
2	Sulphur Dioxide (SOX)	mg/Nm <sup>3</sup>	44.23	--	IS 11255(P-2)
3	Oxides of Nitrogen(NO <sub>2</sub> )	mg/Nm <sup>3</sup>	32.30	--	IS 11255(P-7)
4	Carbon Mono Oxide(CO)	mg/Nm <sup>3</sup>	0.19	--	BY CO METER
5	Oxygen (O <sub>2</sub> )	%	18.8	--	BY Orset Method

  
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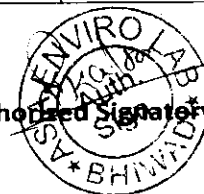
SAMPLE PARTICULARS:	
Type of the Sample	Process Stack Emission
Date of Sampling	05.03.2018
Stack Attach to	Bag Filter No.-551 BF-4
Emission due to	Process Activity( Slag Grinding Circuit)
Stack height(From the Ground level)	40 Meter
Stack diameter	0.830 Meter
Sample Collected By	Lab Rep.
Purpose of Analysis	Monitoring

SAMPLE OBSERVATIONS	
Ambient Temperature, °C	25
Stack Temperature, °C	56
Flue gas velocity, m/sec	7.80
Sampling flow rate, liter per minute	16

Sr. No.	Parameters	Unit	Results	Standards Limit	Test Protocol
1	PM(Particulate Matter)	mg/Nm <sup>3</sup>	18.6	30	IS 11255(P-1)
2	Sulphur Dioxide (SOX)	mg/Nm <sup>3</sup>	N.A	--	IS 11255(P-2)
3	Oxides of Nitrogen(NO <sub>2</sub> )	mg/Nm <sup>3</sup>	N.A	--	IS 11255(P-7)
4	Carbon Mono Oxide(CO)	mg/Nm <sup>3</sup>	N.A	--	BY CO METER
5	Oxygen (O <sub>2</sub> )	%	N.A	--	BY Orset Method

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Issued to: <b>M/S NUVOCO VISTAS CORPORATION Ltd.</b> P.O- Rahargora, Jojobera, Jamshedpur-831016	Sample I'd : AEL/18/198 Date : 07.03.2018 Period of testing : 07.03.2018 to 12.03.2018

SAMPLE PARTICULARS:	
Type of the Sample	Furnace Stack Emission
Date of Sampling	05.03.2018
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	25
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 <sup>3</sup>	24.6	30	IS 11255(P-1)
2	Sulphur Dioxide (SOX)	mg/Nm <sup>3</sup>	41.2	--	IS 11255(P-2)
3	Oxides of Nitrogen(NO <sub>2</sub> )	mg/Nm <sup>3</sup>	36.4	--	IS 11255(P-7)
4	Carbon Mono Oxide(CO)	mg/Nm <sup>3</sup>	0.31	--	BY CO METER
5	Oxygen (O <sub>2</sub> )	%	18.4	--	BY Orset Method

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### SAMPLE PARTICULARS:

Type of the Sample	Process Stack Emission
Date of Sampling	05.03.2018
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	25
Stack Temperature, °C	46
Flue gas velocity, m/sec	8.68
Sampling flow rate, liter per minute	16

Sr. No.	Parameters	Unit	Results	Standards Limit	Test Protocol
1	PM(Particulate Matter)	mg/Nm <sup>3</sup>	19.0	30	IS 11255(P-1)
2	Sulphur Dioxide (SOX)	mg/Nm <sup>3</sup>	N.A	--	IS 11255(P-2)
3	Oxides of Nitrogen(NO <sub>2</sub> )	mg/Nm <sup>3</sup>	N.A	--	IS 11255(P-7)
4	Carbon Mono Oxide(CO)	mg/Nm <sup>3</sup>	N.A	--	BY CO METER
5	Oxygen (O <sub>2</sub> )	%	N.A	--	BY Orset Method

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## Test Report

<b>Report No.:</b> AEL/2018/200	<b>Reporting Date:</b> 13/03/2018
<b>Issued to:</b> M/S NUVOCO VISTAS CORPORATION Ltd. P.O- Rahargora, Jojobera, Jamshedpur-831016	<b>Sample I'd</b> : AEL/18/200 <b>Date</b> : 07.03.2018 <b>Period of testing</b> : 07.03.2018 to 12.03.2018

SAMPLE PARTICULARS:	
Type of the Sample	Process Stack Emission
Date of Sampling	05.03.2018
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	25
Stack Temperature, °C	49
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 <sup>3</sup>	18.3	30	IS 11255(P-1)
2	Sulphur Dioxide (SOX)	mg/Nm <sup>3</sup>	N.A	--	IS 11255(P-2)
3	Oxides of Nitrogen(NO <sub>2</sub> )	mg/Nm <sup>3</sup>	N.A	--	IS 11255(P-7)
4	Carbon Mono Oxide(CO)	mg/Nm <sup>3</sup>	N.A	--	BY CO METER
5	Oxygen (O <sub>2</sub> )	%	N.A	--	BY Orset Method

  
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## Test Report


<b>Report No.:</b> AEL/2018/201	<b>Reporting Date:</b> 13/03/2018
<b>Issued to:</b> <b>M/S NUVOCO VISTAS CORPORATION Ltd.</b> P.O- Rahargora, Jojobera, Jamshedpur-831016	<b>Sample I'd</b> : AEL/18/201 <b>Date</b> : 07.03.2018 <b>Period of testing</b> : 07.03.2018 to 12.03.2018

SAMPLE PARTICULARS:	
Type of the Sample	Process Stack Emission
Date of Sampling	05.03.2018
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	24
Stack Temperature, °C	53
Flue gas velocity, m/sec	8.96
Sampling flow rate, liter per minute	16

Sr. No.	Parameters	Unit	Results	Standards Limit	Test Protocol
1	PM(Particulate Matter)	mg/Nm <sup>3</sup>	22.4	30	IS 11255(P-1)
2	Sulphur Dioxide (SOX)	mg/Nm <sup>3</sup>	N.A	--	IS 11255(P-2)
3	Oxides of Nitrogen(NO <sub>2</sub> )	mg/Nm <sup>3</sup>	N.A	--	IS 11255(P-7)
4	Carbon Mono Oxide(CO)	mg/Nm <sup>3</sup>	N.A	--	BY CO METER
5	Oxygen (O <sub>2</sub> )	%	N.A	--	BY Orset Method

  
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## Test Report

Report No.: AEL/2018/202	Reporting Date:13/03/2018
Issued to: <b>M/S NUVOCO VISTAS CORPORATION Ltd.</b> P.O- Rahargora, Jojobera, Jamshedpur-831016	Sample I'd : AEL/18/202 Date : 07.03.2018 Period of testing : 07.03.2018 to 12.03.2018

SAMPLE PARTICULARS:	
Type of the Sample	Process Stack Emission
Date of Sampling	05.03.2018
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	24
Stack Temperature, °C	49
Flue gas velocity, m/sec	8.62
Sampling flow rate, liter per minute	16

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

  
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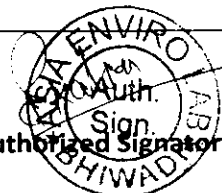
Issued to: <b>M/S NUVOCO VISTAS CORPORATION Ltd.</b> P.O- Rahargora, Jojobera, Jamshedpur- 831016	<b>Sample I'd</b> : AEL/18/203 <b>Date</b> : 07.03.2018 <b>Period of testing</b> : 07.03.2018 to 12.03.2018
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SAMPLE PARTICULARS:	
Type of the Sample	Process Stack Emission
Date of Sampling	05.03.2018
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	25
Stack Temperature, °C	56
Flue gas velocity, m/sec	9.2
Sampling flow rate, liter per minute	16

Sr. No.	Parameters	Unit	Results	Standards Limit	Test Protocol
1	PM(Particulate Matter)	mg/Nm <sup>3</sup>	24.9	30	IS 11255(P-1)
2	Sulphur Dioxide (SOX)	mg/Nm <sup>3</sup>	N.A	--	IS 11255(P-2)
3	Oxides of Nitrogen(NO <sub>2</sub> )	mg/Nm <sup>3</sup>	N.A	--	IS 11255(P-7)
4	Carbon Mono Oxide(CO)	mg/Nm <sup>3</sup>	N.A	--	BY CO METER
5	Oxygen (O <sub>2</sub> )	%	N.A	--	BY Orset Method

  
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# Asia Enviro Lab

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

**AEL**

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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/2018/204 Reporting Date:13/03/2018

Issued to: <b>M/S NUVOCO VISTAS CORPORATION Ltd.</b> P.O- Rahargora, Jojobera, Jamshedpur- 831016	Sample I'd : AEL/18/204 Date : 07.03.2018 Period of testing : 07.03.2018 to 12.03.2018
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SAMPLE PARTICULARS:	
Type of the Sample	Process Stack Emission
Date of Sampling	05.03.2018
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	25
Stack Temperature, °C	54
Flue gas velocity, m/sec	8.61
Sampling flow rate, liter per minute	15

Sr. No.	Parameters	Unit	Results	Standards Limit	Test Protocol
1	PM(Particulate Matter)	mg/Nm <sup>3</sup>	23.5	30	IS 11255(P-1)
2	Sulphur Dioxide (SOX)	mg/Nm <sup>3</sup>	N.A	--	IS 11255(P-2)
3	Oxides of Nitrogen(NO <sub>2</sub> )	mg/Nm <sup>3</sup>	N.A	--	IS 11255(P-7)
4	Carbon Mono Oxide(CO)	mg/Nm <sup>3</sup>	N.A	--	BY CO METER
5	Oxygen (O <sub>2</sub> )	%	N.A	--	BY Orset Method

  
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## Test Report

Report No.: AEL/2018/205	Reporting Date: 13/03/2018
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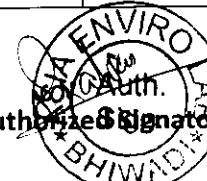
Issued to: <b>M/S NUVOCO VISTAS CORPORATION Ltd.</b> P.O- Rahargora, Jojobera, Jamshedpur- 831016	Sample I'd : AEL/18/205
	Date : 07.03.2018
	Period of testing : 07.03.2018 to 12.03.2018

SAMPLE PARTICULARS:	
Type of the Sample	Process Stack Emission
Date of Sampling	05.03.2018
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	26
Stack Temperature, °C	55
Flue gas velocity, m/sec	8.53
Sampling flow rate, liter per minute	15

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

  
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## Test Report

Report No.: AEL/2018/206 Reporting Date:13/03/2018

Issued to: <b>M/S NUVOCO VISTAS CORPORATION Ltd.</b> P.O- Rahargora, Jojobera, Jamshedpur- 831016	<b>Sample I'd</b> : AEL/18/206 <b>Date</b> : 07.03.2018 <b>Period of testing</b> : 07.03.2018 to 12.03.2018
--	---

SAMPLE PARTICULARS:	
Type of the Sample	Process Stack Emission
Date of Sampling	05.03.2018
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	26
Stack Temperature, °C	72
Flue gas velocity, m/sec	9.81
Sampling flow rate, liter per minute	18

Sr. No.	Parameters	Unit	Results	Standards Limit	Test Protocol
1	PM(Particulate Matter)	mg/Nm <sup>3</sup>	17.6	30	IS 11255(P-1)
2	Sulphur Dioxide (SOX)	mg/Nm <sup>3</sup>	N.A	--	IS 11255(P-2)
3	Oxides of Nitrogen(NO <sub>2</sub> )	mg/Nm <sup>3</sup>	N.A	--	IS 11255(P-7)
4	Carbon Mono Oxide(CO)	mg/Nm <sup>3</sup>	N.A	--	BY CO METER
5	Oxygen (O <sub>2</sub> )	%	N.A	--	BY Orset Method

  
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## Test Report

Report No.: AEL/2018/207 Reporting Date: 13/03/2018

Issued to: <b>M/S NUVOCO VISTAS CORPORATION Ltd.</b> P.O- Rahargora, Jojobera, Jamshedpur-831016	Sample I'd : AEL/18/207 Date : 07.03.2018 Period of testing : 07.03.2018 to 12.03.2018
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SAMPLE PARTICULARS:	
Type of the Sample	Process Stack Emission
Date of Sampling	06.03.2018
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	26
Stack Temperature, °C	53
Flue gas velocity, m/sec	8.52
Sampling flow rate, liter per minute	21

Sr. No.	Parameters	Unit	Results	Standards Limit	Test Protocol
1	PM(Particulate Matter)	mg/Nm <sup>3</sup>	26.4	30	IS 11255(P-1)
2	Sulphur Dioxide (SOX)	mg/Nm <sup>3</sup>	N.A	--	IS 11255(P-2)
3	Oxides of Nitrogen(NO <sub>2</sub> )	mg/Nm <sup>3</sup>	N.A	--	IS 11255(P-7)
4	Carbon Mono Oxide(CO)	mg/Nm <sup>3</sup>	N.A	--	BY CO METER
5	Oxygen (O <sub>2</sub> )	%	N.A	--	BY Orset Method

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## Test Report

Report No.: AEL/2018/208 Reporting Date:13/03/2018

Issued to: <b>M/S NUVOCO VISTAS CORPORATION Ltd.</b> P.O- Rahargora, Jojobera, Jamshedpur- 831016	<b>Sample I'd</b> : AEL/18/208 <b>Date</b> : 07.03.2018 <b>Period of testing</b> : 07.03.2018 to 12.03.2018
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### SAMPLE PARTICULARS:

Type of the Sample	Process Stack Emission
Date of Sampling	06.03.2018
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	27
Stack Temperature, °C	66
Flue gas velocity, m/sec	9.63
Sampling flow rate, liter per minute	18

Sr. No.	Parameters	Unit	Results	Standards Limit	Test Protocol
1	PM(Particulate Matter)	mg/Nm <sup>3</sup>	23.3	30	IS 11255(P-1)
2	Sulphur Dioxide (SOX)	mg/Nm <sup>3</sup>	N.A	--	IS 11255(P-2)
3	Oxides of Nitrogen(NO <sub>2</sub> )	mg/Nm <sup>3</sup>	N.A	--	IS 11255(P-7)
4	Carbon Mono Oxide(CO)	mg/Nm <sup>3</sup>	N.A	--	BY CO METER
5	Oxygen (O <sub>2</sub> )	%	N.A	--	BY Orset Method

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## Test Report

<b>Report No.:</b> AEL/2018/209	<b>Reporting Date:</b> 13/03/2018
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<b>Issued to:</b> <b>M/S NUVOCO VISTAS CORPORATION Ltd.</b> P.O- Rahargora, Jojobera, Jamshedpur-831016	<b>Sample I'd</b>	: AEL/18/209
	<b>Date</b>	: 07.03.2018
	<b>Period of testing</b>	: 07.03.2018 to 12.03.2018

SAMPLE PARTICULARS:	
<b>Type of the Sample</b>	Process Stack Emission
<b>Date of Sampling</b>	06.03.2018
<b>Stack Attach to</b>	Bag Filter No.-571 BF-2
<b>Emission due to</b>	Process Activity( Clinker Grinding Circuit)
<b>Stack height(From the Ground level)</b>	30 Meter
<b>Stack diameter</b>	1.12 Meter
<b>Sample Collected By</b>	Lab Rep.
<b>Purpose of Analysis</b>	Monitoring

SAMPLE OBSERVATIONS	
<b>Ambient Temperature, °C</b>	26
<b>Stack Temperature, °C</b>	64
<b>Flue gas velocity, m/sec</b>	9.31
<b>Sampling flow rate, liter per minute</b>	17

Sr. No.	Parameters	Unit	Results	Standards Limit	Test Protocol
1	PM(Particulate Matter)	mg/Nm <sup>3</sup>	24.7	30	IS 11255(P-1)
2	Sulphur Dioxide (SOX)	mg/Nm <sup>3</sup>	N.A	--	IS 11255(P-2)
3	Oxides of Nitrogen(NO <sub>2</sub> )	mg/Nm <sup>3</sup>	N.A	--	IS 11255(P-7)
4	Carbon Mono Oxide(CO)	mg/Nm <sup>3</sup>	N.A	--	BY CO METER
5	Oxygen (O <sub>2</sub> )	%	N.A	--	BY Orset Method

  
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## Test Report

<b>Report No.:</b> AEL/2018/210	<b>Reporting Date:</b> 13/03/2018
<b>Issued to:</b> <b>M/S NUVOCO VISTAS CORPORATION Ltd.</b> P.O- Rahargora, Jojobera, Jamshedpur-831016	<b>Sample I'd</b> : AEL/18/210 <b>Date</b> : 07.03.2018 <b>Period of testing</b> : 07.03.2018 to 12.03.2018

### SAMPLE PARTICULARS:

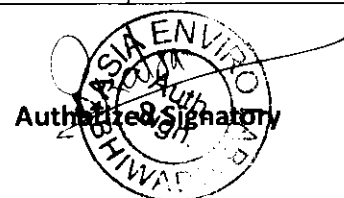
<b>Type of the Sample</b>	Process Stack Emission
<b>Date of Sampling</b>	06.03.2018
<b>Stack Attach to</b>	Bag Filter No.-661 BF-1
<b>Emission due to</b>	Process Activity( Packing Plant)
<b>Stack height(From the Ground level)</b>	50 Meter
<b>Stack diameter</b>	1.28 Meter
<b>Sample Collected By</b>	Lab Rep.
<b>Purpose of Analysis</b>	Monitoring

### SAMPLE OBSERVATIONS

<b>Ambient Temperature, °C</b>	27
<b>Stack Temperature, °C</b>	36
<b>Flue gas velocity, m/sec</b>	7.86
<b>Sampling flow rate, liter per minute</b>	17

Sr. No.	Parameters	Unit	Results	Standards Limit	Test Protocol
1	PM(Particulate Matter)	mg/Nm <sup>3</sup>	18.9	30	IS 11255(P-1)
2	Sulphur Dioxide (SOX)	mg/Nm <sup>3</sup>	N.A	--	IS 11255(P-2)
3	Oxides of Nitrogen(NO <sub>2</sub> )	mg/Nm <sup>3</sup>	N.A	--	IS 11255(P-7)
4	Carbon Mono Oxide(CO)	mg/Nm <sup>3</sup>	N.A	--	BY CO METER
5	Oxygen (O <sub>2</sub> )	%	N.A	--	BY Orset Method

  
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## Test Report

Report No.: AEL/2018/211 Reporting Date: 13/03/2018

Issued to: <b>M/S NUVOCO VISTAS CORPORATION Ltd.</b> P.O- Rahargora, Jojobera, Jamshedpur- 831016	Sample I'd : AEL/18/211 Date : 07.03.2018 Period of testing : 07.03.2018 to 12.03.2018
--	--

SAMPLE PARTICULARS:	
Type of the Sample	Process Stack Emission
Date of Sampling	06.03.2018
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	26
Stack Temperature, °C	36
Flue gas velocity, m/sec	8.36
Sampling flow rate, liter per minute	16

Sr. No.	Parameters	Unit	Results	Standards Limit	Test Protocol
1	PM(Particulate Matter)	mg/Nm <sup>3</sup>	20.3	30	IS 11255(P-1)
2	Sulphur Dioxide (SOX)	mg/Nm <sup>3</sup>	N.A	--	IS 11255(P-2)
3	Oxides of Nitrogen(NO <sub>2</sub> )	mg/Nm <sup>3</sup>	N.A	--	IS 11255(P-7)
4	Carbon Mono Oxide(CO)	mg/Nm <sup>3</sup>	N.A	--	BY CO METER
5	Oxygen (O <sub>2</sub> )	%	N.A	--	BY Orset Method

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## Test Report

<b>Report No.:</b> AEL/2018/212	<b>Reporting Date:</b> 13/03/2018
Issued to: <b>M/S NUVOCO VISTAS CORPORATION Ltd.</b> P.O- Rahargora, Jojobera, Jamshedpur-831016	<b>Sample I'd</b> : AEL/18/212 <b>Date</b> : 07.03.2018 <b>Period of testing</b> : 07.03.2018 to 12.03.2018

SAMPLE PARTICULARS:	
Type of the Sample	Process Stack Emission
Date of Sampling	06.03.2018
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	27
Stack Temperature, °C	38
Flue gas velocity, m/sec	8.36
Sampling flow rate, liter per minute	16

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

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## Test Report

<b>Report No.:</b> AEL/2018/213	<b>Reporting Date:</b> 13/03/2018
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<b>Issued to:</b> <b>M/S NUVOCO VISTAS CORPORATION Ltd.</b> P.O- Rahargora, Jojobera, Jamshedpur-831016	<b>Sample I'd</b>	: AEL/18/213
	<b>Date</b>	: 07.03.2018
	<b>Period of testing</b>	: 07.03.2018 to 12.03.2018

SAMPLE PARTICULARS:	
Type of the Sample	Process Stack Emission
Date of Sampling	06.03.2018
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	27
Stack Temperature, °C	88
Flue gas velocity, m/sec	10.8
Sampling flow rate, liter per minute	18

Sr. No.	Parameters	Unit	Results	Standards Limit	Test Protocol
1	PM(Particulate Matter)	mg/Nm <sup>3</sup>	23.5	30	IS 11255(P-1)
2	Sulphur Dioxide (SOX)	mg/Nm <sup>3</sup>	N.A	--	IS 11255(P-2)
3	Oxides of Nitrogen(NO <sub>2</sub> )	mg/Nm <sup>3</sup>	N.A	--	IS 11255(P-7)
4	Carbon Mono Oxide(CO)	mg/Nm <sup>3</sup>	N.A	--	BY CO METER
5	Oxygen (O <sub>2</sub> )	%	N.A	--	BY Orset Method

*BS*  
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*[Signature]*  
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\*BHIWADI\*

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# 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 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/2018/214	Reporting Date:13/03/2018
--------------------------	---------------------------

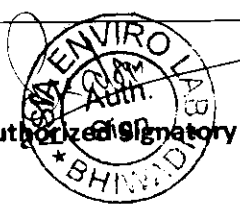
Issued to: <b>M/S NUVOCO VISTAS CORPORATION Ltd.</b> P.O- Rahargora, Jojobera, Jamshedpur- 831016	Sample I'd : AEL/18/214 Date : 07.03.2018 Period of testing : 07.03.2018 to 12.03.2018
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SAMPLE PARTICULARS:	
Type of the Sample	Process Stack Emission
Date of Sampling	06.03.2018
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	26
Stack Temperature, °C	81
Flue gas velocity, m/sec	11.0
Sampling flow rate, liter per minute	18

Sr. No.	Parameters	Unit	Results	Standards Limit	Test Protocol
1	PM(Particulate Matter)	mg/Nm <sup>3</sup>	19.9	30	IS 11255(P-1)
2	Sulphur Dioxide (SOX)	mg/Nm <sup>3</sup>	N.A	--	IS 11255(P-2)
3	Oxides of Nitrogen(NO <sub>2</sub> )	mg/Nm <sup>3</sup>	N.A	--	IS 11255(P-7)
4	Carbon Mono Oxide(CO)	mg/Nm <sup>3</sup>	N.A	--	BY CO METER
5	Oxygen (O <sub>2</sub> )	%	N.A	--	BY Orset Method

  
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## Test Report

Report No.: AEL/2018/219 Reporting Date:13/03/2018

Issued to: <b>M/S NUVOCO VISTAS CORPORATION Ltd.</b> P.O- Rahargora, Jojobera, Jamshedpur- 831016	<b>Sample I'd</b> : AEL/18/219 <b>Date</b> : 07.03.2018 <b>Period of testing</b> : 07.03.2018 to 12.03.2018
--	---

### SAMPLE PARTICULARS:

Type of the Sample	Ambient Air Sample
Date of Sampling	05.03.2018 to 06.03.2018
Point of Sample Collection	Near Auto Garage
Sample Collected By	Lab Rep.
Purpose of Analysis	Monitoring

### SAMPLE OBSERVATIONS

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

Sr. No.	Parameters	Unit	Results	Standards Limit	Test Protocol
1	Particulate Matter(PM <sub>10</sub> )	µg/m <sup>3</sup>	87.2	100	IS: 5182,(P-23)
2	Particulate Matter(PM <sub>2.5</sub> )	µg/m <sup>3</sup>	51.1	60	PM 2.5 Sampler (Gravimetric)
3	Sulphur Dioxide (SOX)	µg/m <sup>3</sup>	37.4	80	IS: 5182,(P-2)
4	Nitrogen Dioxide (NOX)	µg/m <sup>3</sup>	42.8	80	IS: 5182,(P-6)

  
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## Test Report

Report No.: AEL/2018/217 Reporting Date:13/03/2018

Issued to: <b>M/S NUVOCO VISTAS CORPORATION Ltd.</b> P.O- Rahargora, Jojobera, Jamshedpur- 831016	Sample I'd : AEL/18/217 Date : 07.03.2018 Period of testing : 07.03.2018 to 12.03.2018
--	--

### SAMPLE PARTICULARS:

Type of the Sample	Ambient Air Sample
Date of Sampling	05.03.2018 to 06.03.2018
Point of Sample Collection	Near LOCO Railway Gate
Sample Collected By	Lab Rep.
Purpose of Analysis	Monitoring

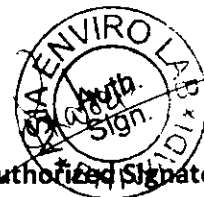
### SAMPLE OBSERVATIONS

Sampling flow rate (m <sup>3</sup> /min.)	1.23
Period of sampling (minutes)	1449.6
Total volume of air sampled (m <sup>3</sup> )	1783.0

Sr. No.	Parameters	Unit	Results	Standards Limit	Test Protocol
1.	Particulate Matter(PM <sub>10</sub> )	µg/m <sup>3</sup>	89.3	100	IS: 5182,(P-23)
2.	Particulate Matter(PM <sub>2.5</sub> )	µg/m <sup>3</sup>	47.6	60	PM 2.5 Sampler (Gravimetric)
3.	Sulphur Dioxide (SOX)	µg/m <sup>3</sup>	38.3	80	IS: 5182,(P-2)
4.	Nitrogen Dioxide (NOX)	µg/m <sup>3</sup>	43.9	80	IS: 5182,(P-6)

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## Test Report

Report No.: AEL/2018/218 Reporting Date:13/03/2018

Issued to: <b>M/S NUVOCO VISTAS CORPORATION Ltd.</b> P.O- Rahargora, Jojobera, Jamshedpur- 831016	Sample I'd : AEL/18/218 Date : 07.03.2018 Period of testing : 07.03.2018 to 12.03.2018
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### SAMPLE PARTICULARS:

Type of the Sample	Ambient Air Sample
Date of Sampling	05.03.2018 to 06.03.2018
Point of Sample Collection	Near Time Office
Sample Collected By	Lab Rep.
Purpose of Analysis	Monitoring

### SAMPLE OBSERVATIONS

Sampling flow rate (m <sup>3</sup> /min.)	1.20
Period of sampling (minutes)	1441.8
Total volume of air sampled (m <sup>3</sup> )	1730.2

Sr. No.	Parameters	Unit	Results	Standards Limit	Test Protocol
1.	Particulate Matter(PM <sub>10</sub> )	µg/m <sup>3</sup>	83.5	100	IS: 5182,(P-23)
2.	Particulate Matter(PM <sub>2.5</sub> )	µg/m <sup>3</sup>	43.2	60	PM 2.5Sampler (Gravimetric)
3.	Sulphur Dioxide (SOX)	µg/m <sup>3</sup>	35.6	80	IS: 5182,(P-2)
4.	Nitrogen Dioxide (NOX)	µg/m <sup>3</sup>	41.3	80	IS: 5182,(P-6)

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## Test Report

Report No.: AEL/2018/220 Reporting Date:13/03/2018

Issued to: <b>M/S NUVOCO VISTAS CORPORATION Ltd.</b> P.O- Rahargora, Jojobera, Jamshedpur- 831016	Sample I'd : AEL/18/220 Date : 07.03.2018 Period of testing : 07.03.2018 to 12.03.2018
--	--

### SAMPLE PARTICULARS:

Type of the Sample	Ambient Air Sample
Date of Sampling	05.03.2018 to 06.03.2018
Point of Sample Collection	Near Material Gate
Sample Collected By	Lab Rep.
Purpose of Analysis	Monitoring

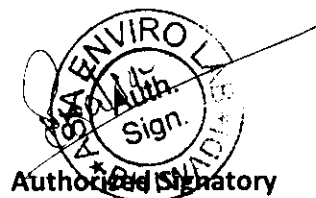
### SAMPLE OBSERVATIONS

Sampling flow rate (m <sup>3</sup> /min.)	1.15
Period of sampling (minutes)	1449.0
Total volume of air sampled (m <sup>3</sup> )	1666.4

Sr. No.	Parameters	Unit	Results	Standards Limit	Test Protocol
1	Particulate Matter(PM <sub>10</sub> )	µg/m <sup>3</sup>	88.2	100	IS: 5182,(P-23)
2	Particulate Matter(PM <sub>2.5</sub> )	µg/m <sup>3</sup>	51.9	60	PM <sub>2.5</sub> Sampler (Gravimetric)
3	Sulphur Dioxide (SOX)	µg/m <sup>3</sup>	41.9	80	IS: 5182,(P-2)
4	Nitrogen Dioxide (NOX)	µg/m <sup>3</sup>	49.8	80	IS: 5182,(P-6)

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## Test Report

Report No.: AEL/2018/221 Reporting Date:13/03/2018

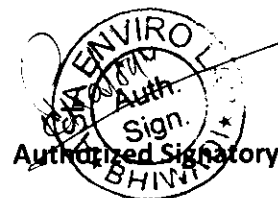
Issued to: <b>M/S NUVOCO VISTAS CORPORATION Ltd.</b> P.O- Rahargora, Jojobera, Jamshedpur- 831016	<b>Sample I'd</b> : AEL/18/221 <b>Date</b> : 07.03.2018 <b>Period of testing</b> : 07.03.2018 to 12.03.2018
--	---

SAMPLE PARTICULARS:	
Type of the Sample	Ambient Air Sample
Date of Sampling	05.03.2018 to 06.03.2018
Point of Sample Collection	Near Gypsum Yard
Sample Collected By	Lab Rep.
Purpose of Analysis	Monitoring

SAMPLE OBSERVATIONS	
Sampling flow rate (m <sup>3</sup> /min.)	1.19
Period of sampling (minutes)	1453.2
Total volume of air sampled (m <sup>3</sup> )	1729.1

Sr. No.	Parameters	Unit	Results	Standards Limit	Test Protocol
1	Particulate Matter(PM <sub>10</sub> )	µg/m <sup>3</sup>	77.5	100	IS: 5182,(P-23)
2	Particulate Matter(PM <sub>2.5</sub> )	µg/m <sup>3</sup>	39.4	60	PM 2.5Sampler (Gravimetric)
3	Sulphur Dioxide (SOX)	µg/m <sup>3</sup>	33.8	80	IS: 5182,(P-2)
4	Nitrogen Dioxide (NOX)	µg/m <sup>3</sup>	39.5	80	IS: 5182,(P-6)

  
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## Test Report

Report No.: AEL/2018/222 Reporting Date:13/03/2018

Issued to: <b>M/S NUVOCO VISTAS CORPORATION Ltd.</b> P.O- Rahargora, Jojobera, Jamshedpur- 831016	Sample I'd : AEL/18/222 Date : 07.03.2018
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SAMPLE PARTICULARS:	
Type of the Sample	Noise Level Testing (Ambient Air)
Date of Sampling	05.03.2018 to 06.03.2018
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)	65.8	58.9	75 db(A) (Day Time) & 70 dB(A) Night Time

  
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## Test Report

Report No.: **AEL/2018/223** Reporting Date: **13/03/2018**

Issued to: <b>M/S NUVOCO VISTAS CORPORATION Ltd.</b> P.O- Rahargora, Jojobera, Jamshedpur- 831016	Sample I'd : <b>AEL/18/223</b> Date : <b>07.03.2018</b>
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### SAMPLE PARTICULARS:

Type of the Sample	Noise Level Testing (Ambient Air)
Date of Sampling	05.03.2018 to 06.03.2018
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)	71.8	68.2	75 db(A) (Day Time) & 70 dB(A) Night Time



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## Test Report

Report No.: AEL/2018/224 Reporting Date:13/03/2018

Issued to: <b>M/S NUVOCO VISTAS CORPORATION Ltd.</b> P.O- Rahargora, Jojobera, Jamshedpur- 831016	Sample I'd : AEL/18/224 Date : 07.03.2018
--	--

### SAMPLE PARTICULARS:

Type of the Sample	Noise Level Testing (Ambient Air)
Date of Sampling	05.03.2018 to 06.03.2018
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)	70.4	67.2	75 db(A) (Day Time) & 70 dB(A) Night Time

  
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## Test Report

Report No.: AEL/2018/215	Reporting Date:13/03/2018
Issued to: <b>M/S NUVOCO VISTAS CORPORATION Ltd.</b> P.O- Rahargora, Jojobera, Jamshedpur-831016	Sample I'd : AEL/18/215 Date : 07.03.2018 Period of testing : 07.03.2018 to 12.03.2018

SAMPLE PARTICULARS:	
Type of the Sample	Treated Sewage Water Sample
Date of Sample Receiving	05.03.2018
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	--	7.36	5.5-9.0	IS-3025 (P-11)
2	COD	mg/l	41.6	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	2.4	10	IS-3025 (P-39)
6	Total Dissolved Solids	mg/l	1120	--	IS-3025(P-16)
7	Total Hardness,(as CaCO <sub>3</sub> )	mg/l	162.5	--	IS-3025(P-21)
8	Calcium Hardness, (as Ca)	mg/l	39.2	--	IS-3025(P-40)
9	Magnesium Hardness,(as Mg)	mg/l	15.7	--	IS-3025(P-46)
10	Sulphate,(as SO <sub>4</sub> )	mg/l	71.2	--	IS-3025(P-24)

  
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
## Test Report

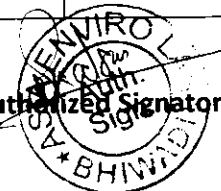
Report No.: AEL/2018/216 Reporting Date:13/03/2018

Issued to: <b>M/S NUVOCO VISTAS CORPORATION Ltd.</b> P.O- Rahargora, Jojobera, Jamshedpur-831016	<b>Sample I'd</b> : AEL/18/216 <b>Date</b> : 07.03.2018 <b>Period of testing</b> : 07.03.2018 to 12.03.2018
--	---

SAMPLE PARTICULARS:	
Type of the Sample	Effluent Water Sample
Date of Sample Receiving	05.03.2018
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	--	7.62	5.5-9.0	IS-3025 (P-11)
2	COD	mg/l	62.3	250	IS-3025 (P-58)
3	BOD (at 27°C for 3 days)	mg/l	13.5	30	IS-3025 (P-44)
4	Total Suspended Solids	mg/l	18.0	100	IS-3025 (P-17)
5	Oil & Grease	mg/l	2.8	10	IS-3025 (P-39)
6	Total Dissolved Solids	mg/l	1212	--	IS-3025(P-16)
7	Total Hardness,(as CaCO <sub>3</sub> )	mg/l	142.6	--	IS-3025(P-21)
8	Calcium Hardness, (as Ca)	mg/l	34.4	--	IS-3025(P-40)
9	Magnesium Hardness,(as Mg)	mg/l	13.8	--	IS-3025(P-46)
10	Sulphate,(as SO <sub>4</sub> )	mg/l	82.3	--	IS-3025(P-24)

  
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.  
3. Any complaints about this report should be communicated within 7 days of issue of this report  
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# 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 Pollution NOC etc.

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

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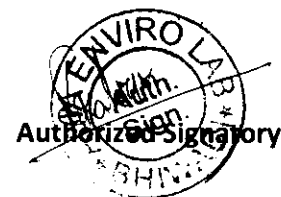
## Test Report

<b>Report No.:</b> AEL/2018/225	<b>Reporting Date:</b> 13/03/2018
<b>Issued to:</b> M/S NUVOCO VISTAS CORPORATION Ltd. P.O- Rahargora, Jojobera, Jamshedpur-831016	<b>Sample I'd</b> : AEL/18/225 <b>Date</b> : 07.03.2018 <b>Period of testing</b> : 07.03.2018 to 12.03.2018

<b>SAMPLE PARTICULARS:</b>	
<b>Type of the Sample</b>	Drinking Water Sample
<b>Date of Sample Receiving</b>	05.03.2018
<b>Point of Sample Collection</b>	From Canteen
<b>Sample Collected By</b>	Customer
<b>Purpose of Analysis</b>	Monitoring

<b>TEST RESULTS:</b>						
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	--	7.49	6.5 - 8.5	No relaxation	IS-3025(P-11)
6	Total Hardness,(as CaCO <sub>3</sub> )	mg/l	38.6	200 max.	600 max.	IS-3025(P-21)
7	Iron,(as Fe)	mg/l	< 0.05	0.30 max.	No relaxation.	APHA 22 <sup>nd</sup> Ed.
8	Chloride,(as Cl)	mg/l	16.3	250 max.	1000 max.	IS-3025(P-32)
9	Calcium Hardness, (as Ca)	mg/l	8.8	75 max.	200 max.	IS-3025(P-40)
10	Magnesium Hardness,(as Mg)	mg/l	4.1	30 max.	100 max.	IS-3025(P-46)
11	Total Dissolved Solids	mg/l	92.0	500 max.	2000 max.	IS-3025(P-16)
12	Sulphate,(as SO <sub>4</sub> )	mg/l	4.2	200 max.	400 max.	IS-3025(P-24)
13	Total Alkalinity,(as CaCO <sub>3</sub> )	mg/l	35.3	200 max.	600 max.	IS-3025(P-23)
<b>Bacteriological Test Results</b>						
14	Coli form organisms/100 ml(MPN)	--	<1	Less than 1	No relaxation	IS-1622:1981

Checked By



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