



Analyzing for a Better
Future

NOIDA TESTING LABORATORIES

(A Government Approved Testing Laboratory)

An ISO 9001:2015 & 45001:2018 (OHSAS) Certified Laboratory

MoEF & CC (Ministry of Environment, Forest & Climate Change), UPPCB & HSPCB Recognized Laboratory

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TEST CERTIFICATE

Test Report of	Report Code	Date of Issue
Ambient Air Quality Analysis	AAQ-231221-01	29/12/2021

Issued To: M/s India Glycols Limited
A-1, Industrial Area, Bazpur Road, Kashipur (Uttarakhand)- 244713

SAMPLING & ANALYSIS DATA

Sample Drawn By : NTL
Date of Sample Received : 21/12/2021 to 22/12/2021
Sample Description : Ambient Air
Sampling Location : **Bio Gas Plant - Behind Laboratory**
Sampling Plan & Procedure : SOP-AAQ/08
Analysis Duration : 23/12/2021 to 29/12/2021
Average Flow Rate of SPM (m³/min.) : 1.10
Average Flow Rate of Gases (lpm) : 1.0
Sampling Instrument Used : Respirable Dust Sampler (PM₁₀) Fine Particulate Sampler (PM_{2.5}) With Gaseous Attachment
Weather Condition : Clear

TEST RESULT					
S. No.	Parameter	Test Method	Results	Units	Limits as per Environment (Protection) Act.
1.	Particulate Matter (PM ₁₀)	IS:5182 Part-XXIII	80.26	µg /m ³	100.0
2.	Particulate Matter (PM _{2.5})	CPCB Volume - I / Gravimetric	43.18	µg /m ³	60.0
3.	Sulphur Dioxide	IS:5182 Part-II	14.60	µg /m ³	80.0
4.	Nitrogen Dioxide	IS:5182 Part-VI	19.74	µg /m ³	80
5.	Carbon Monoxide	IS:5182 Part-X	< 1.15	mg/m ³	4.0
6.	Lead (as Pb)	IS:5182 Part-XXII	<0.10	µg /m ³	1.0
7.	Nickel (as Ni)	APHA-AIR420	<20.00	ng /m ³	20.0
8.	Arsenic (as As)	APHA-AIR302	<5.00	ng /m ³	6.0
9.	Ozone (as O ₃)	IS:5182 Part-IX	<10.0	µg /m ³	180.0
10.	Ammonia (as NH ₃)	APHA-AIR402	< 20.00	µg /m ³	400.0
11.	Benzene (as C ₆ H ₆)	IS:5182 Part-XI	< 1.00	µg /m ³	5.0
12.	Benzo(a) Pyrene- Particulate phase only	IS:5182 Part-XI	< 1.00	ng /m ³	1.0
13.	Methane (as CH ₄)	APHA-AIR	0.019	PPM	-
14.	Volatile Organic Compounds (VOCs)	IS:5182 Part-XI	0.042	PPM	-

Notes:-

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- The test samples will be disposed off after two weeks from the date of issue of test report, unless until specified by the customer

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AUTHORIZED SIGNATORY



Laboratory : GT-20, Sector-117, Noida Gautam Budh Nagar - 201301

Branch Office :

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TEST CERTIFICATE

Test Report of	Report Code	Date of Issue
Ambient Air Quality Analysis	AAQ-231221-02	29/12/2021

Issued To: **M/s India Glycols Limited**
A-1, Industrial Area, Bazpur Road, Kashipur (Uttarakhand)- 244713

SAMPLING & ANALYSIS DATA

Sample Drawn By : NTL
 Date of Sample Received : 21/12/2021 to 22/12/2021
 Sample Description : Ambient Air
 Sampling Location : **Coal Yard near Slop 2 Control Room**
 Sampling Plan & Procedure : SOP-AAQ/08
 Analysis Duration : 23/12/2021 to 29/12/2021
 Average Flow Rate of SPM (m³/min.) : 1.14
 Average Flow Rate of Gases (lpm) : 1.0
 Sampling Instrument Used : Respirable Dust Sampler (PM₁₀) Fine Particulate Sampler (PM_{2.5}) With Gaseous Attachment
 Weather Condition : Clear

TEST RESULT

S. No.	Parameter	Test Method	Results	Units	Limits as per Environment (Protection) Act.
1.	Particulate Matter (PM ₁₀)	IS:5182 Part-XXIII	86.05	µg/m ³	100.0
2.	Particulate Matter (PM _{2.5})	CPCB Volume - I / Gravimetric	42.12	µg/m ³	60.0
3.	Sulphur Dioxide	IS:5182 Part-II	10.55	µg/m ³	80.0
4.	Nitrogen Dioxide	IS:5182 Part-VI	20.89	µg/m ³	80
5.	Carbon Monoxide	IS:5182 Part-X	< 1.15	mg/m ³	4.0
6.	Lead (as Pb)	IS:5182 Part-XXII	<0.10	µg/m ³	1.0
7.	Nickel (as Ni)	APHA-AIR420	<20.00	ng/m ³	20.0
8.	Arsenic (as As)	APHA-AIR302	<5.00	ng/m ³	6.0
9.	Ozone (as O ₃)	IS:5182 Part-IX	<10.0	µg/m ³	180.0
10.	Ammonia (as NH ₃)	APHA-AIR402	< 20.00	µg/m ³	400.0
11.	Benzene (as C ₆ H ₆)	IS:5182 Part-XI	< 1.00	µg/m ³	5.0
12.	Benzo(a) Pyrene-Particulate phase only	IS:5182 Part-XI	< 1.00	ng/m ³	1.0
13.	Methane (as CH ₄)	APHA-AIR	ND	PPM	-
14.	Volatile Organic Compounds (VOCs)	IS:5182 Part-XI	ND	PPM	-

Notes: -

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TEST CERTIFICATE

Test Report of	Report Code	Date of Issue
Ambient Air Quality Analysis	AAQ-231221-03	29/12/2021

Issued To: **M/s India Glycols Limited**
A-1, Industrial Area, Bazpur Road, Kashipur (Uttarakhand)- 244713

SAMPLING & ANALYSIS DATA

Sample Drawn By : NTL
Date of Sample Received : 21/12/2021 to 22/12/2021
Sample Description : Ambient Air
Sampling Location : **Fire Station**
Sampling Plan & Procedure : SOP-AAQ/08
Analysis Duration : 23/12/2021 to 29/12/2021
Average Flow Rate of SPM (m³/min.) : 1.13
Average Flow Rate of Gases (lpm) : 1.0
Sampling Instrument Used : Respirable Dust Sampler (PM₁₀) Fine Particulate Sampler (PM_{2.5}) With Gaseous Attachment
Weather Condition : Clear

TEST RESULT					
S. No.	Parameter	Test Method	Results	Units	Limits as per Environment (Protection) Act.
1.	Particulate Matter (PM ₁₀)	IS:5182 Part-XXIII	76.19	µg /m ³	100.0
2.	Particulate Matter (PM _{2.5})	CPCB Volume - 1 / Gravimetric	39.26	µg /m ³	60.0
3.	Sulphur Dioxide	IS:5182 Part-II	8.74	µg /m ³	80.0
4.	Nitrogen Dioxide	IS:5182 Part-VI	15.02	µg /m ³	80
5.	Carbon Monoxide	IS:5182 Part-X	< 1.15	mg/m ³	4.0
6.	Lead (as Pb)	IS:5182 Part-XXII	<0.10	µg /m ³	1.0
7.	Nickel (as Ni)	APHA-AIR420	<20.00	ng /m ³	20.0
8.	Arsenic (as As)	APHA-AIR302	<5.00	ng /m ³	6.0
9.	Ozone (as O ₃)	IS:5182 Part-IX	<10.0	µg /m ³	180.0
10.	Ammonia (as NH ₃)	APHA-AIR402	< 20.00	µg /m ³	400.0
11.	Benzene (as C ₆ H ₆)	IS:5182 Part-XI	< 1.00	µg /m ³	5.0
12.	Benzo(a) Pyrine- Particulate phase only	IS:5182 Part-XI	< 1.00	ng /m ³	1.0
13.	Methane (as CH ₄)	APHA-AIR	ND	PPM	-
14.	Volatile Organic Compounds (VOCs)	IS:5182 Part-XI	ND	PPM	-

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Analytical Laboratory
Noida

TEST CERTIFICATE

Test Report of	Report Code	Date of Issue
Ambient Air Quality Analysis	AAQ-231221-04	29/12/2021

Issued To: M/s India Glycols Limited
A-1, Industrial Area, Bazpur Road, Kashipur (Uttarakhand)- 244713

SAMPLING & ANALYSIS DATA

Sample Drawn By : NTL
Date of Sample Received : 22/12/2021 to 23/12/2021
Sample Description : Ambient Air
Sampling Location : IGL Colony Near STP
Sampling Plan & Procedure : SOP-AAQ/08
Analysis Duration : 23/12/2021 to 29/12/2021
Average Flow Rate of SPM (m³/min.) : 1.10
Average Flow Rate of Gases (lpm) : 1.0
Sampling Instrument Used : Respirable Dust Sampler (PM₁₀) Fine Particulate Sampler (PM_{2.5}) With Gaseous Attachment
Weather Condition : Clear

TEST RESULT

S. No.	Parameter	Test Method	Results	Units	Limits as per Environment (Protection) Act.
1.	Particulate Matter (PM ₁₀)	IS:5182 Part-XXIII	76.21	µg /m ³	100.0
2.	Particulate Matter (PM _{2.5})	CPCB Volume - I / Gravimetric	40.35	µg /m ³	60.0
3.	Sulphur Dioxide	IS:5182 Part-II	8.26	µg /m ³	80.0
4.	Nitrogen Dioxide	IS:5182 Part-VI	17.54	µg /m ³	80
5.	Carbon Monoxide	IS:5182 Part-X	< 1.15	mg/m ³	4.0
6.	Lead (as Pb)	IS:5182 Part-XXII	<0.10	µg /m ³	1.0
7.	Nickel (as Ni)	APHA-AIR420	<20.00	ng /m ³	20.0
8.	Arsenic (as As)	APHA-AIR302	<5.00	ng /m ³	6.0
9.	Ozone (as O ₃)	IS:5182 Part-IX	<10.0	µg /m ³	180.0
10.	Ammonia (as NH ₃)	APHA-AIR402	< 20.00	µg /m ³	400.0
11.	Benzene (as C ₆ H ₆)	IS:5182 Part-XI	< 1.00	µg /m ³	5.0
12.	Benzo(a) Pyrene- Particulate phase only	IS:5182 Part-XI	< 1.00	ng /m ³	1.0
13.	Methane (as CH ₄)	APHA-AIR	ND	PPM	-
14.	Volatile Organic Compounds (VOCs)	IS:5182 Part-XI	ND	PPM	-

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Laboratory : GT-20, Sector-117, Noida Gautam Budh Nagar - 201301

Branch Office : IP-2, Handwar, Uttrakhand

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TEST CERTIFICATE

Test Report of	Report Code	Date of Issue
Ambient Air Quality Analysis	AAQ-231221-05	29/12/2021

Issued To: **M/s India Glycols Limited**
A-1, Industrial Area, Bazpur Road, Kashipur (Uttarakhand)- 244713

SAMPLING & ANALYSIS DATA

Sample Drawn By : NTL
Date of Sample Received : 22/12/2021 to 23/12/2021
Sample Description : Ambient Air
Sampling Location : **Main Gate Near Security Office**
Sampling Plan & Procedure : SOP-AAQ/08
Analysis Duration : 23/12/2021 to 29/12/2021
Average Flow Rate of SPM (m³/min.) : 1.16
Average Flow Rate of Gases (lpm) : 1.0
Sampling Instrument Used : Respirable Dust Sampler (PM₁₀) Fine Particulate Sampler (PM_{2.5}) With Gaseous Attachment
Weather Condition : Clear

TEST RESULT					
S. No.	Parameter	Test Method	Results	Units	Limits as per Environment (Protection) Act.
1.	Particulate Matter (PM ₁₀)	IS:5182 Part-XXIII	84.20	µg /m ³	100.0
2.	Particulate Matter (PM _{2.5})	CPCB Volume - I / Gravimetric	42.16	µg /m ³	60.0
3.	Sulphur Dioxide	IS:5182 Part-II	9.45	µg /m ³	80.0
4.	Nitrogen Dioxide	IS:5182 Part-VI	18.72	µg /m ³	80
5.	Carbon Monoxide	IS:5182 Part-X	< 1.15	mg/m ³	4.0
6.	Lead (as Pb)	IS:5182 Part-XXII	<0.10	µg /m ³	1.0
7.	Nickel (as Ni)	APHA-AIR420	<20.00	ng /m ³	20.0
8.	Arsenic (as As)	APHA-AIR302	<5.00	ng /m ³	6.0
9.	Ozone (as O ₃)	IS:5182 Part-IX	<10.0	µg /m ³	180.0
10.	Ammonia (as NH ₃)	APHA-AIR402	< 20.00	µg /m ³	400.0
11.	Benzene (as C ₆ H ₆)	IS:5182 Part-XI	< 1.00	µg /m ³	5.0
12.	Benzo(a) Pyrene-Particulate phase only	IS:5182 Part-XI	< 1.00	ng /m ³	1.0
13.	Methane (as CH ₄)	APHA-AIR	ND	PPM	-
14.	Volatile Organic Compounds (VOCs)	IS:5182 Part-XI	ND	PPM	-

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TEST CERTIFICATE

Test Report of	Report Code	Date of Issue
Ambient Air Quality Analysis	AAQ-231221-05	29/12/2021

Issued To: **M/s India Glycols Limited**
A-1, Industrial Area, Bazpur Road, Kashipur (Uttarakhand)- 244713

SAMPLING & ANALYSIS DATA

Sample Drawn By : NTL
Date of Sample Received : 22/12/2021 to 23/12/2021
Sample Description : Ambient Air
Sampling Location : **Main Gate Near Security Office**
Sampling Plan & Procedure : SOP-AAQ/08
Analysis Duration : 23/12/2021 to 29/12/2021
Average Flow Rate of SPM (m³/min.) : 1.16
Average Flow Rate of Gases (lpm) : 1.0
Sampling Instrument Used : Respirable Dust Sampler (PM₁₀) Fine Particulate Sampler (PM_{2.5}) With Gaseous Attachment
Weather Condition : Clear

TEST RESULT					
S. No.	Parameter	Test Method	Results	Units	Limits as per Environment (Protection) Act.
1.	Particulate Matter (PM ₁₀)	IS:5182 Part-XXIII	84.20	µg /m ³	100.0
2.	Particulate Matter (PM _{2.5})	CPCB Volume - I / Gravimetric	42.16	µg /m ³	60.0
3.	Sulphur Dioxide	IS:5182 Part-II	9.45	µg /m ³	80.0
4.	Nitrogen Dioxide	IS:5182 Part-VI	18.72	µg /m ³	80
5.	Carbon Monoxide	IS:5182 Part-X	< 1.15	mg/m ³	4.0
6.	Lead (as Pb)	IS:5182 Part-XXII	<0.10	µg /m ³	1.0
7.	Nickel (as Ni)	APHA-AIR420	<20.00	ng /m ³	20.0
8.	Arsenic (as As)	APHA-AIR302	<5.00	ng /m ³	6.0
9.	Ozone (as O ₃)	IS:5182 Part-IX	<10.0	µg /m ³	180.0
10.	Ammonia (as NH ₃)	APHA-AIR402	< 20.00	µg /m ³	400.0
11.	Benzene (as C ₆ H ₆)	IS:5182 Part-XI	< 1.00	µg /m ³	5.0
12.	Benzo(a) Pyrene-Particulate phase only	IS:5182 Part-XI	< 1.00	ng /m ³	1.0
13.	Methane (as CH ₄)	APHA-AIR	ND	PPM	-
14.	Volatile Organic Compounds (VOCs)	IS:5182 Part-XI	ND	PPM	-

Notes: -

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TEST CERTIFICATE

Test Report of	Report Code	Date of Issue
Ambient Noise	AN-211221-06	29/12/2021

Issued To: **M/s India Glycols Limited**
A-1, Industrial Area, Bazpur Road, Kashipur (Uttarakhand)- 244713

SAMPLING & ANALYSIS DATA

Sample Drawn By : NTL
 Sample Received On : 21/12/2021
 Sample description : Ambient Noise
 Sampling Location : Bio Gas Plant

TEST RESULT

S. No	Test Parameters	Results	Units	Requirement (as per CPCB Guidelines Limits in dB (A) Leq		
				Category of Area/ Zone	Day Time	Night Time
1.	EQUIVALENT NOISE LEVEL (6.0 AM TO 10.0 PM)	72.5	dB(A)	Industrial Area	75	70
				Commercial Area	65	55
2.	EQUIVALENT NOISE LEVEL (10.0 PM TO 6.0 AM)	56.8	dB(A)	Residential Area	55	45
				Silence Zone	50	40

Notes:

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TEST CERTIFICATE

Test Report of	Report Code	Date of Issue
Ambient Noise	AN-211221-07	29/12/2021

Issued To: **M/s India Glycols Limited**
A-1, Industrial Area, Bazpur Road, Kashipur (Uttarakhand)- 244713

SAMPLING & ANALYSIS DATA

Sample Drawn By : NTL
Sample Received On : 21/12/2021
Sample description : Ambient Noise
Sampling Location : Coal Yard

TEST RESULT

S. No	Test Parameters	Results	Units	Requirement (as per CPCB Guidelines Limits in dB (A) Leq		
				Category of Area/ Zone	Day Time	Night Time
1.	EQUIVALENT NOISE LEVEL (6.0 AM TO 10.0 PM)	68.2	dB(A)	Industrial Area	75	70
				Commercial Area	65	55
2.	EQUIVALENT NOISE LEVEL (10.0 PM TO 6.0 AM)	52.5	dB(A)	Residential Area	55	45
				Silence Zone	50	40

Notes:

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TEST CERTIFICATE

Test Report of	Report Code	Date of Issue
Ambient Noise	AN-211221-08	29/12/2021

Issued To: **M/s India Glycols Limited**
A-1, Industrial Area, Bazpur Road, Kashipur (Uttarakhand)- 244713

SAMPLING & ANALYSIS DATA

Sample Drawn By : NTL
Sample Received On : 21/12/2021
Sample description : Ambient Noise
Sampling Location : Fire Station

TEST RESULT						
S. No	Test Parameters	Results	Units	Requirement (as per CPCB Guidelines Limits in dB (A) Leq		
				Category of Area/ Zone	Day Time	Night Time
1.	EQUIVALENT NOISE LEVEL (6.0 AM TO 10.0 PM)	66.8	dB(A)	Industrial Area	75	70
				Commercial Area	65	55
2.	EQUIVALENT NOISE LEVEL (10.0 PM TO 6.0 AM)	54.1	dB(A)	Residential Area	55	45
				Silence Zone	50	40

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AUTHORIZED SIGNATORY



Laboratory : GT-20, Sector-117, Noida Gautam Budh Nagar - 201301

Branch Office :

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ISO 9001:2015
ISO 45001:2018

TEST CERTIFICATE

Test Report of	Report Code	Date of Issue
Ambient Noise	AN-211221-09	29/12/2021

Issued To: **M/s India Glycols Limited**
A-1, Industrial Area, Bazpur Road, Kashipur (Uttarakhand)- 244713

SAMPLING & ANALYSIS DATA

Sample Drawn By : NTL
 Sample Received On : 21/12/2021
 Sample description : Ambient Noise
 Sampling Location : IGL Colony

TEST RESULT

S. No	Test Parameters	Results	Units	Requirement (as per CPCB Guidelines Limits in dB (A) Leq		
				Category of Area/ Zone	Day Time	Night Time
1.	EQUIVALENT NOISE LEVEL (6.0 AM TO 10.0 PM)	64.5	dB(A)	Industrial Area	75	70
				Commercial Area	65	55
2.	EQUIVALENT NOISE LEVEL (10.0 PM TO 6.0 AM)	48.8	dB(A)	Residential Area	55	45
				Silence Zone	50	40

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TEST CERTIFICATE

Test Report of	Report Code	Date of Issue
Ambient Noise	AN-211221-010	29/12/2021

Issued To: **M/s India Glycols Limited**
A-1, Industrial Area, Bazpur Road, Kashipur (Uttarakhand)- 244713

SAMPLING & ANALYSIS DATA

Sample Drawn By : NTL
 Sample Received On : 21/12/2021
 Sample description : Ambient Noise
 Sampling Location : Main Gate Near Security Office

TEST RESULT

S. No	Test Parameters	Results	Units	Requirement (as per CPCB Guidelines Limits in dB (A) Leq		
				Category of Area/ Zone	Day Time	Night Time
1.	EQUIVALENT NOISE LEVEL (6.0 AM TO 10.0 PM)	65.2	dB(A)	Industrial Area	75	70
				Commercial Area	65	55
2.	EQUIVALENT NOISE LEVEL (10.0 PM TO 6.0 AM)	50.4	dB(A)	Residential Area	55	45
				Silence Zone	50	40

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TEST CERTIFICATE

Test Report of	Report Code	Date of Issue
Stack Emission	ST-231221-011	29/12/2021

Issued To: **M/s India Glycols Limited**
A-1, Industrial Area, Bazpur Road, Kashipur (Uttarakhand)- 244713

SAMPLING & ANALYSIS DATA

Sample Drawn On	:	21/12/2021
Sample Drawn By	:	NTL
Sample description	:	Stack Emission
Sampling Time	:	30 minutes
Sampling Location	:	CVL 30 T Boiler
Sampling Plan & Procedure	:	IS:11255
Analysis Duration	:	23/12/2021 to 29/12/2021
Stack Temperature (°C)	:	115
Capacity (TPH/KVA/Kg/Hr)	:	30 TPH
Type of Fuel used	:	Coal
Operating Load	:	Normal
Type of Stack	:	Metal circular
Diameter of Stack (meter)	:	3.0
Height of Stack from Ground level (meter)	:	45.0
Average Flow Rate (LPM)	:	16.0
Average Velocity of Emission (m/sec)	:	10.2
Quantity of Emission (Nm ³ /hr)	:	2580.36

TEST RESULT

S. No.	Parameter	Test Method	Results	Units	Emission limits (CPCB/MoEF)
1.	Particulate Matter (PM) (corrected to be 12% CO ₂)	IS:11255(Part-1)	41.89	mg /Nm ³	50
2.	Sulphur dioxide (SO ₂)	IS:11255(Part-2)	72.56	mg /Nm ³	600
3.	Nitrogen dioxide (NO ₂)	IS:11255(Part-7)	86.18	mg /Nm ³	300
4.	Mercury (as Hg)	APHA-AIR	<0.01	mg /Nm ³	0.03

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TEST CERTIFICATE

Test Report of	Report Code	Date of Issue
Stack Emission	ST-231221-012	29/12/2021

Issued To: M/s India Glycols Limited
A-1, Industrial Area, Bazpur Road, Kashipur (Uttarakhand)- 244713

SAMPLING & ANALYSIS DATA

Sample Drawn On	:	21/12/2021
Sample Drawn By	:	NTL
Sample description	:	Stack Emission
Sampling Time	:	30 minutes
Sampling Location	:	IJT 80 T Boiler
Sampling Plan & Procedure	:	IS:11255
Analysis Duration	:	23/12/2021 to 29/12/2021
Stack Temperature (°C)	:	114
Capacity (TPH/KVA/Kg/Hr)	:	80 TPH
Type of Fuel used	:	Coal
Operating Load	:	Normal
Type of Stack	:	Metal circular
Diameter of Stack (meter)	:	2.5
Height of Stack from Ground level (meter)	:	80.0
Average Flow Rate (LPM)	:	15.8
Average Velocity of Emission (m/sec)	:	9.8
Quantity of Emission (Nm ³ /hr)	:	3123.10

TEST RESULT

S. No.	Parameter	Test Method	Results	Units	Emission limits (CPCB/MoEF)
1.	Particulate Matter (PM) (corrected to be 12% CO ₂)	IS:11255(Part-1)	42.0	mg /Nm ³	50
2.	Sulphur dioxide (SO ₂)	IS:11255(Part-2)	56.24	mg /Nm ³	600
3.	Nitrogen dioxide (NO ₂)	IS:11255(Part-7)	68.19	mg /Nm ³	300
4.	Mercury (as Hg)	APHA-AIR	<0.01	mg /Nm ³	0.03

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TEST CERTIFICATE

Test Report of	Report Code	Date of Issue
Stack Emission	ST-231221-013	29/12/2021

Issued To: **M/s India Glycols Limited**
A-1, Industrial Area, Bazpur Road, Kashipur (Uttarakhand)- 244713

SAMPLING & ANALYSIS DATA

Sample Drawn On	:	21/12/2021
Sample Drawn By	:	NTL
Sample description	:	Stack Emission
Sampling Time	:	30 minutes
Sampling Location	:	Slop Boiler - 01
Sampling Plan & Procedure	:	IS:11255
Analysis Duration	:	23/12/2021 to 29/12/2021
Stack Temperature (°C)	:	118
Capacity (TPH/KVA/Kg/Hr)	:	50 TPH
Type of Fuel used	:	Coal + Slop
Operating Load	:	Normal
Type of Stack	:	RCC
Diameter of Stack(meter)	:	2.5
Height of Stack from Ground level (meter)	:	100.0
Average Flow Rate (LPM)	:	26.0
Average Velocity of Emission (m/sec)	:	10.2
Quantity of Emission (Nm ³ /hr)	:	2964.80

TEST RESULT

S. No.	Parameter	Test Method	Results	Units	Emission limits (CPCB/MoEF)
1.	Particulate Matter (PM) (corrected to be 12% CO ₂)	IS:11255(Part-1)	44.50	mg /Nm ³	50
2.	Sulphur dioxide (SO ₂)	IS:11255(Part-2)	78.21	mg /Nm ³	600
3.	Nitrogen dioxide (NO ₂)	IS:11255(Part-7)	89.35	mg /Nm ³	300
4.	Mercury (as Hg)	APHA-AIR	<0.01	mg /Nm ³	0.03

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TEST CERTIFICATE

Test Report of	Report Code	Date of Issue
Stack Emission	ST-231221-014	29/12/2021

Issued To: **M/s India Glycols Limited**
A-1, Industrial Area, Bazpur Road, Kashipur (Uttarakhand)- 244713

SAMPLING & ANALYSIS DATA

Sample Drawn On	21/12/2021
Sample Drawn By	NTL
Sample description	Stack Emission
Sampling Time	30 minutes
Sampling Location	MEG Heater (B -110 A)
Sampling Plan & Procedure	IS:11255
Analysis Duration	23/12/2021 to 29/12/2021
Stack Temperature (°C)	148
Capacity (TPH/KVA/Kg/Hr)	-
Fuel Consumption per hour	0.25 + 200
Type of Fuel Used	FO + Biogas
Operating Load	Normal
Type of Stack	Metal Circular
Diameter of Stack(meter)	0.850
Height of Stack from Ground level (meter)	45.0
Average Flow Rate (LPM)	16.2
Average Velocity of Emission (m/sec)	11.2
Quantity of Emission (Nm ³ /hr)	2356.40

TEST RESULT

S. No.	Parameter	Test Method	Results	Units	Emission limits
1.	Particulate Matter (PM)	IS:11255(Part-1)	44.50	mg /Nm ³	50
2.	Sulphur dioxide (SO ₂)	IS:11255(Part-2)	56.12	mg /Nm ³	600
3.	Nitrogen dioxide (NO ₂)	IS:11255(Part-7)	78.36	mg /Nm ³	300
4.	Mercury (as Hg)	APHA-AIR	<0.01	mg /Nm ³	0.03

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TEST CERTIFICATE

Test Report of	Report Code	Date of Issue
Stack Emission	ST-231221-015	29/12/2021

Issued To: M/s India Glycols Limited
A-1, Industrial Area, Bazpur Road, Kashipur (Uttarakhand)- 244713

SAMPLING & ANALYSIS DATA

Sample Drawn By	:	NTL
Sample description	:	Stack Emission
Sampling Time	:	30 minutes
Sampling Location	:	Stack Boiler (Bottling Plant)
Sampling Plan & Procedure	:	IS:11255
Analysis Duration	:	23/12/2021 to 29/12/2021
Stack Temperature (°C)	:	136
Capacity (TPH/KVA/Kg/Hr)	:	850 kg
Fuel Consumption per hour	:	52 kg/hr
Type of Fuel used (HSD/FO/Coal etc)	:	HSD
Operating Load	:	Normal
Type of Stack	:	Metal circular
Diameter of Stack(meter)	:	0.35
Height of Stack from Ground level(meter)	:	21.0
Average Flow Rate (LPM)	:	17
Average Velocity of Emission (m/sec)	:	11.4

TEST RESULT

S. No.	Parameter	Test Method	Results	Units	Emission Limits
1.	Particulate Matter (PM) @12% O ₂ Correction	IS:11255(Part-1)1985	256.0	mg/Nm ³	1200
2.	Sulphur dioxide (as SO ₂)	IS:11255(Part-2)1985	18.20	mg/Nm ³	Limit Not Specified
3.	Nitrogen Oxide (as NO _x)	IS:11255(Part-7) 2005	41.50	mg/Nm ³	Limit Not Specified

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TEST CERTIFICATE

Test Report of	Report Code	Date of Issue
Waste Water	WW-231221-024	29/12/2021

Issued To: M/s India Glycols Limited
A-1, Industrial Area, Bazpur Road, Kashipur (Uttarakhand)- 244713

SAMPLING & ANALYSIS DATA

Sample Drawn On : 22/12/2021
Sample Drawn By : NTL
Sample Description : ETP Outlet
Sample Received On : 23/12/2021
Sample Quantity/Packing detail : 2 lt/Plastic Cane
Analysis Duration : 23/12/2021 to 29/12/2021

TEST RESULTS

S.No	Parameter	Test Method	Results	Units	Limits as per E(P) Rule
1.	pH	USEPA-150.1	7.56	-	5.0 - 9.0
2.	Chemical Oxygen demand (as O ₂)	USEPA-410.4	112.0	mg/l	250.0
3.	Biological Oxygen demand (as O ₂)	USEPA-405.1	21.0	mg/l	100.0
4.	Oil & grease	USEPA-1664	<1.0	mg/l	10.0
5.	Phenolic Compound (C ₆ H ₅ OH)	APHA 5530 B C & D	0.26	mg/l	5.0
6.	Phosphates, (as P)	IS:3025(Part-31)	1.15	mg/l	5.0
7.	Cyanide (as CN)	IS-3025(P-27)	BDL	mg/l	0.2
8.	Sulphide (as H ₂ S)	IS-3025 (P-29)	BDL	mg/l	2.0
9.	Total Suspended Solid (TSS)	IS:3025(Part-17)	28.0	mg/l	100.0
Metal					
10.	Total Chromium (as Cr)	USEPA-6010c	BDL	mg/l	1.0
11.	Total Arsenic (as As)	USEPA-200.7	BDL	mg/l	0.2
12.	Lead (as Pb)	USEPA-6010c	BDL	mg/l	0.1
13.	Mercury (as Hg)	USEPA-6010c	BDL	mg/l	0.01
14.	Silver (as Ag)	USEPA-6010c	BDL	mg/l	No Limit Specified
15.	Bio Assay Test (%Survival of Fish 96 hrs%)	IS-6582:1972(R.A003)	100	mg/l	Should be 90 % Survival

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