



Analyzing for an Assured Future

NOIDA TESTING LABORATORIES

(An ISO : 9001 : 2015, ISO 14001:2015 & ISO 45001:2018 & NABL Accredited Laboratory)
MoEF & CC (Ministry of Environment, Forest & Climate Change), UPPCB & HSPCB Recognized Laboratory

+91-9313611642, 8510081921, 7503031145, 8527870572, 7503031146, 9999794369

TEST CERTIFICATE

Test Report of	Report Code	Date of Issue
Stack Emission	ST-050920-03	10/09/2020

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	:	IJT 80 T Boiler
Sampling Plan & Procedure	:	IS:11255
Analysis Duration	:	05/09/2020 to 10/09/2020
Stack Temperature (°C)	:	114
Capacity (TPH/KVA/Kg/Hr)	:	80 TPH
Type of Fuel used	:	Coal
Operating Load	:	Normal
Type of Stack	:	RCC circular
Diameter of Stack(meter)	:	1.5
Height of Stack from Ground level(meter)	:	80.0
Average Flow Rate (LPM)	:	15
Average Velocity of Emission (m/sec)	:	10.6

TEST RESULT

S. No.	Parameter	Test Method	Results	Units	Emission Limits
1.	Particulate Matter (PM) @12% CO ₂ Correction	IS:11255(Part-1)1985	88.20	mg/Nm ³	150
2.	Sulphur dioxide (as SO ₂)	IS:11255(Part-2)1985	52.40	mg/Nm ³	Limit Not Specified
3.	Nitrogen Oxide (as NO _x)	IS:11255(Part-7) 2005	65.80	mg/Nm ³	Limit Not Specified

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AUTHORIZED SIGNATORY



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

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TEST CERTIFICATE

Test Report of Stack Emission	Report Code ST-050920-09	Date of Issue 10/09/2020
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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	:	TBW Boiler
Sampling Plan & Procedure	:	IS:11255
Analysis Duration	:	05/09/2020 to 10/09/2020
Stack Temperature (°C)	:	110
Capacity (TPH/KVA/Kg/Hr)	:	45 TPH
Type of Fuel used	:	Coal
Operating Load	:	Normal
Type of Stack	:	Metal circular
Diameter of Stack (meter)	:	1.5
Height of Stack from Ground level (meter)	:	68.0
Average Flow Rate (LPM)	:	13
Average Velocity of Emission (m/sec)	:	10.1

TEST RESULT

S. No.	Parameter	Test Method	Results	Units	Emission Limits
1.	Particulate Matter (PM) @12% CO ₂ Correction	IS:11255(Part-1)1985	78.24	mg/Nm ³	150
2.	Sulphur dioxide (as SO ₂)	IS:11255(Part-2)1985	46.80	mg/Nm ³	Limit Not Specified
3.	Nitrogen Oxide (as NO _x)	IS:11255(Part-7) 2005	77.45	mg/Nm ³	Limit Not Specified

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TEST CERTIFICATE

Test Report of	Report Code	Date of Issue
Stack Emission	ST-050920-07	10/09/2020

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	:	Slop Boiler - 1
Sampling Plan & Procedure	:	IS:11255
Analysis Duration	:	05/09/2020 to 10/09/2020
Stack Temperature (°C)	:	124
Capacity (TPH/KVA/Kg/Hr)	:	50 TPH
Type of Fuel used	:	Coal + Slop
Operating Load	:	Normal
Type of Stack	:	RCC circular
Diameter of Stack(meter)	:	2.5
Height of Stack from Ground level(meter)	:	81.0
Average Flow Rate (LPM)	:	26
Average Velocity of Emission (m/sec)	:	10.8

TEST RESULT

S. No.	Parameter	Test Method	Results	Units	Emission Limits
1.	Particulate Matter (PM) @12% CO ₂ Correction	IS:11255(Part-1)1985	58.20	mg/Nm ³	150
2.	Sulphur dioxide (as SO ₂)	IS:11255(Part-2)1985	66.40	mg/Nm ³	Limit Not Specified
3.	Nitrogen Oxide (as NO _x)	IS:11255(Part-7) 2005	75.31	mg/Nm ³	Limit Not Specified

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TEST CERTIFICATE

Test Report of	Report Code	Date of Issue
Stack Emission	ST-050920-08	10/09/2020

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	:	Slop Boiler- 02
Sampling Plan & Procedure	:	IS:11255
Analysis Duration	:	05/09/2020 to 10/09/2020
Stack Temperature (°C)	:	123
Capacity (TPH/KVA/Kg/Hr)	:	50 TPH
Type of Fuel used	:	Coal + Slop
Operating Load	:	Normal
Type of Stack	:	RCC circular
Diameter of Stack (meter)	:	2.5
Height of Stack from Ground level (meter)	:	98.0
Average Flow Rate (LPM)	:	14
Average Velocity of Emission (m/sec)	:	12.5

TEST RESULT

S. No.	Parameter	Test Method	Results	Units	Emission Limits
1.	Particulate Matter (PM) @12% CO ₂ Correction	IS:11255(Part-1)1985	76.23	mg/Nm ³	150
2.	Sulphur dioxide (as SO ₂)	IS:11255(Part-2)1985	51.80	mg/Nm ³	Limit Not Specified
3.	Nitrogen Oxide (as NO _x)	IS:11255(Part-7) 2005	72.50	mg/Nm ³	Limit Not Specified

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TEST CERTIFICATE

Test Report of	Report Code	Date of Issue
Stack Emission	ST-050920-05	10/09/2020

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	MEG Heater (B-110 A)
Sampling Plan & Procedure	IS:11255
Analysis Duration	05/09/2020 to 10/09/2020
Stack Temperature (°C)	117
Capacity (TPH/KVA/Kg/Hr)	-
Type of Fuel used	FO + Biogas
Fuel Consumption (per hour)	0.25 + 200
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)	14
Average Velocity of Emission (m/sec)	10.5

TEST RESULT

S. No.	Parameter	Test Method	Results	Units	Emission Limits
1.	Particulate Matter (PM)	IS:11255(Part-1)1985	63.25	mg/Nm ³	150
2.	Sulphur dioxide (as SO ₂)	IS:11255(Part-2)1985	52.12	mg/Nm ³	Limit Not Specified
3.	Nitrogen Oxide (as NO _x)	IS:11255(Part-7) 2005	75.06	mg/Nm ³	Limit Not Specified

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TEST CERTIFICATE

Test Report of	Report Code	Date of Issue
Stack Emission	ST-050920-04	10/09/2020

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	:	MEG Heater (B-110)
Sampling Plan & Procedure	:	IS:11255
Analysis Duration	:	05/09/2020 to 10/09/2020
Stack Temperature (°C)	:	116
Capacity (TPH/KVA/Kg/Hr)	:	-
Type of Fuel used	:	FO + Biogas
Fuel Consumption (per hour)	:	0.25 + 200
Operating Load	:	Normal
Type of Stack	:	Metal circular
Diameter of Stack(meter)	:	0.838
Height of Stack from Ground level(meter)	:	30.0
Average Flow Rate (LPM)	:	28
Average Velocity of Emission (m/sec)	:	10.8

TEST RESULT

S. No.	Parameter	Test Method	Results	Units	Emission Limits
1.	Particulate Matter (PM)	IS:11255(Part-1)1985	58.18	mg/Nm ³	150
2.	Sulphur dioxide (as SO ₂)	IS:11255(Part-2)1985	41.26	mg/Nm ³	Limit Not Specified
3.	Nitrogen Oxide (as NO _x)	IS:11255(Part-7) 2005	65.50	mg/Nm ³	Limit Not Specified

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TEST CERTIFICATE

Test Report of	Report Code	Date of Issue
Stack Emission	ST-050920-06	10/09/2020

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	MEG Heater (B-110 B)
Sampling Plan & Procedure	IS:11255
Analysis Duration	05/09/2020 to 10/09/2020
Stack Temperature (°C)	121
Capacity (TPH/KVA/Kg/Hr)	-
Type of Fuel used	FO + Biogas
Fuel Consumption (per hour)	0.25 + 200
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)	14
Average Velocity of Emission (m/sec)	10.8

TEST RESULT

S. No.	Parameter	Test Method	Results	Units	Emission Limits
1.	Particulate Matter (PM)	IS:11255(Part-1)1985	62.35	mg/Nm ³	150
2.	Sulphur dioxide (as SO ₂)	IS:11255(Part-2)1985	45.60	mg/Nm ³	Limit Not Specified
3.	Nitrogen Oxide (as NO _x)	IS:11255(Part-7) 2005	78.12	mg/Nm ³	Limit Not Specified

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TEST CERTIFICATE

Test Report of	Report Code	Date of Issue
Work Zone Air Quality Analysis	WZ-050920-012	10/09/2020

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

SAMPLING & ANALYSIS DATA

Sample Drawn On : 05/09/2020
Sample Drawn By : NTL
Sampling Location : Chemical Plant

Test Results

S.No.	Parameter	Test Method	Results	Unit	Permission Limit
1.	Suspended Particulate matter (SPM)	IS:5182 (P-4)	0.098	mg/m ³	15 as per OSHA
2.	Sulphur dioxide (SO ₂)	IS:5182 (P-2)	0.014	mg/m ³	5.0 as per factories act, 1948
3.	Nitrogen dioxide (NO ₂)	IS:5182 (P-6)	0.018	mg/m ³	6.0 as per factories act, 1948
4.	Lead (as Pb)	IS:5182 (P-22)	<0.1	mg/m ³	0.15 as per factories act, 1948
5.	Hydrogen Chloride (as HCL)	SOP-S/99/31	2.10	mg/m ³	7.0 as per factories act, 1948

OSHA-Occupational Safety & Health Administration.

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TEST CERTIFICATE

Test Report of	Report Code	Date of Issue
Work Zone Air Quality Analysis	WZ-050920-014	10/09/2020

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

SAMPLING & ANALYSIS DATA

Sample Drawn On : 05/09/2020
 Sample Drawn By : NTL
 Sampling Location : Ethoxylate Plant

Test Results

S.No.	Parameter	Test Method	Results	Unit	Permission Limit
1.	Suspended Particulate matter (SPM)	IS:5182 (P-4)	0.095	mg/m ³	15 as per OSHA
2.	Sulphur dioxide (SO ₂)	IS:5182 (P-2)	0.012	mg/m ³	5.0 as per factories act, 1948
3.	Nitrogen dioxide (NO ₂)	IS:5182 (P-6)	0.015	mg/m ³	6.0 as per factories act, 1948
4.	Lead (as Pb)	IS:5182 (P-22)	<0.1	mg/m ³	0.15 as per factories act, 1948
5.	Hydrogen Chloride (as HCL)	SOP-S/99/31	1.78	mg/m ³	7.0 as per factories act, 1948

OSHA-Occupational Safety & Health Administration.

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TEST CERTIFICATE

Test Report of	Report Code	Date of Issue
Work Zone Air Quality Analysis	WZ-050920-013	10/09/2020

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

SAMPLING & ANALYSIS DATA

Sample Drawn On : 05/09/2020
Sample Drawn By : NTL
Sampling Location : Formulation Plant

Test Results

S.No.	Parameter	Test Method	Results	Unit	Permission Limit
1.	Suspended Particulate matter (SPM)	IS:5182 (P-4)	0.097	mg/m ³	15 as per OSHA
2.	Sulphur dioxide (SO ₂)	IS:5182 (P-2)	0.010	mg/m ³	5.0 as per factories act, 1948
3.	Nitrogen dioxide (NO ₂)	IS:5182 (P-6)	0.016	mg/m ³	6.0 as per factories act, 1948
4.	Lead (as Pb)	IS:5182 (P-22)	<0.1	mg/m ³	0.15 as per factories act, 1948
5.	Hydrogen Chloride (as HCL)	SOP-S/99/31	1.21	mg/m ³	7.0 as per factories act, 1948

OSHA-Occupational Safety & Health Administration.

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TEST CERTIFICATE

Test Report of	Report Code	Date of Issue
Ambient Air Quality Analysis	AAQ-050920-05	10/09/2020

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 : 05/09/2020
Sample Description : Ambient Air
Sampling Location : Main Gate Near Security Office
Sampling Plan & Procedure : SOP-AAQ/08
Analysis Duration : 05/09/2020 to 06/09/2020
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	81.2	µg/m ³	100.0
2.	Particulate Matter (PM _{2.5})	CPCB Volume - 1 / Gravimetric	41.39	µg/m ³	60.0
3.	Sulphur Dioxide	IS:5182 Part-II	8.41	µg/m ³	80.0
4.	Nitrogen Dioxide	IS:5182 Part-VI	16.25	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

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AUTHORIZED SIGNATORY



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TEST CERTIFICATE

Test Report of Ambient Air Quality Analysis	Report Code AAQ-050920-04	Date of Issue 10/09/2020
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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 : 05/09/2020
Sample Description : Ambient Air
Sampling Location : IGL Colony Near STP
Sampling Plan & Procedure : SOP-AAQ/08
Analysis Duration : 05/09/2020 to 06/09/2020
Average Flow Rate of SPM (m³/min.) : 1.15
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	73.21	µg/m ³	100.0
2.	Particulate Matter (PM _{2.5})	CPCB Volume - 1 / Gravimetric	38.10	µg/m ³	60.0
3.	Sulphur Dioxide	IS:5182 Part-II	7.60	µg/m ³	80.0
4.	Nitrogen Dioxide	IS:5182 Part-VI	14.89	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(α) Pyrine- Particulate phase only	IS:5182 Part-XI	< 1.00	ng/m ³	1.0

Notes: -

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TEST CERTIFICATE

Test Report of	Report Code	Date of Issue
Ambient Air Quality Analysis	AAQ-050920-01	10/09/2020

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 : 05/09/2020
Sample Description : Ambient Air
Sampling Location : Bio Gas Plant – Behind Laboratory
Sampling Plan & Procedure : SOP-AAQ/08
Analysis Duration : 05/09/2020 to 06/09/2020
Average Flow Rate of SPM (m³/min.) : 1.12
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	80.24	µg /m ³	100.0
2.	Particulate Matter (PM _{2.5})	CPCB Volume – 1 / Gravimetric	44.32	µg /m ³	60.0
3.	Sulphur Dioxide	IS:5182 Part-II	14.6	µg /m ³	80.0
4.	Nitrogen Dioxide	IS:5182 Part-VI	24.7	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(α) Pyrine- Particulate phase only	IS:5182 Part-XI	< 1.00	ng /m ³	1.0

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TEST CERTIFICATE

Test Report of	Report Code	Date of Issue
Ambient Air Quality Analysis	AAQ-050920-02	10/09/2020

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 : 05/09/2020
Sample Description : Ambient Air
Sampling Location : **Coal Yard near Slop 2 Control Room**
Sampling Plan & Procedure : SOP-AAQ/08
Analysis Duration : 05/09/2020 to 06/09/2020
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	90.12	µg/m ³	100.0
2.	Particulate Matter (PM _{2.5})	CPCB Volume - I / Gravimetric	48.7	µg/m ³	60.0
3.	Sulphur Dioxide	IS:5182 Part-II	12.4	µg/m ³	80.0
4.	Nitrogen Dioxide	IS:5182 Part-VI	27.2	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

Notes:-

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TEST CERTIFICATE

Test Report of	Report Code	Date of Issue
Ambient Air Quality Analysis	AAQ-050920-03	10/09/2020

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 : 05/09/2020
Sample Description : Ambient Air
Sampling Location : Fire Station
Sampling Plan & Procedure : SOP-AAQ/08
Analysis Duration : 05/09/2020 to 06/09/2020
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	72.86	µg /m ³	100.0
2.	Particulate Matter (PM _{2.5})	CPCB Volume - 1 / Gravimetric	37.12	µg /m ³	60.0
3.	Sulphur Dioxide	IS:5182 Part-II	8.55	µg /m ³	80.0
4.	Nitrogen Dioxide	IS:5182 Part-VI	14.78	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(α) Pyrine- Particulate phase only	IS:5182 Part-XI	< 1.00	ng /m ³	1.0

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TEST CERTIFICATE

Test Report of Waste Water	Report Code WW-050920-05	Date of Issue 10/09/2020
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Issued To: **M/s India Glycols Limited**
A-1, Industrial Area, Bazpur Road, Kashipur (Uttarakhand)- 244713

SAMPLING & ANALYSIS DATA

Sample Received On : 05/09/2020
Sample Collected By : Laboratory
Sampling Location : **IGL Colony**
Sample Description : **STP Outlet**
Analysis Duration : 05/09/2020 to 10/09/2020

TEST RESULTS

S. No.	Parameter	Test Method	Results	Units	Limits as per CPCB norms
1.	pH	IS:3025(Part-11):1983	7.24	-	5.0-9.0
2.	Total Suspended Solid	IS:3025(Part-17):1984	35.0	mg/l	100.0
3.	Chemical Oxygen Demand (as O ₂)	APHA 5220 B:2005	78.8	mg/l	250
4.	Biological Oxygen Demand (as O ₂)	IS:3025(Part-44):1993	18.2	mg/l	30
5.	Oil & grease	IS:3025(Part-39):1984	<1.0	mg/l	10

Remarks: Test parameters coming in under limit, prescribe limits are given by MoEF/Central Pollution Control Board.

Notes:

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TEST CERTIFICATE

Test Report of Waste Water	Report Code WW-050920-016	Date of Issue 10/09/2020
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Issued To: **M/s India Glycols Limited**
A-1, Industrial Area, Bazpur Road, Kashipur (Uttarakhand)- 244713

SAMPLING & ANALYSIS DATA

Sample Received On : 05/09/2020
Sample Collected By : Laboratory
Sampling Location : **Chemical Plant**
Sample Description : Effluent Treatment Plant
Analysis Duration : 05/09/2020 to 10/09/2020

TEST RESULTS

S. No.	Parameter	Test Method	Results	Units	Limits as per CPCB norms
1.	pH	IS:3025(Part-11):1983	7.31	-	5.0-9.0
2.	Total Suspended Solid	IS:3025(Part-17):1984	28.0	mg/l	100.0
3.	Chemical Oxygen Demand (as O ₂)	APHA 5220 B:2005	92.0	mg/l	250
4.	Biological Oxygen Demand (as O ₂)	IS:3025(Part-44):1993	18.0	mg/l	30
5.	Oil & grease	IS:3025(Part-39):1984	<1.0	mg/l	10

Remarks: Test parameters coming in under limit, prescribe limits are given by MoEF/Central Pollution Control Board.

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TEST CERTIFICATE

Test Report of	Report Code	Date of Issue
Waste Water	WW-050920-03	10/09/2020

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

SAMPLING & ANALYSIS DATA

Sample Received On : 05/09/2020
Sample Collected By : Laboratory
Sampling Location : Substation Area
Sample Description : STP Outlet
Analysis Duration : 05/09/2020 to 10/09/2020

TEST RESULTS

S. No.	Parameter	Test Method	Results	Units	Limits as per CPCB norms
1.	pH	IS:3025(Part-11):1983	7.18	-	5.0-9.0
2.	Total Suspended Solid	IS:3025(Part-17):1984	41.0	mg/l	100.0
3.	Chemical Oxygen Demand (as O ₂)	APHA 5220 B:2005	75.0	mg/l	250
4.	Biological Oxygen Demand (as O ₂)	IS:3025(Part-44):1993	19.0	mg/l	30
5.	Oil & grease	IS:3025(Part-39):1984	<1.0	mg/l	10

Remarks: Test parameters coming in under limit, prescribe limits are given by MoEF/Central Pollution Control Board.

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TEST CERTIFICATE

Test Report of Waste Water	Report Code WW-050920-04	Date of Issue 10/09/2020
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Issued To: **M/s India Glycols Limited**
A-1, Industrial Area, Bazpur Road, Kashipur (Uttarakhand)- 244713

SAMPLING & ANALYSIS DATA

Sample Received On : 05/09/2020
 Sample Collected By : Laboratory
 Sampling Location : **Surfactant Area**
 Sample Description : STP Outlet
 Analysis Duration : 05/09/2020 to 10/09/2020

TEST RESULTS

S. No.	Parameter	Test Method	Results	Units	Limits as per CPCB norms
1.	pH	IS:3025(Part-11):1983	7.38	-	5.0-9.0
2.	Total Suspended Solid	IS:3025(Part-17):1984	46.0	mg/l	100.0
3.	Chemical Oxygen Demand (as O ₂)	APHA 5220 B:2005	74.0	mg/l	250
4.	Biological Oxygen Demand (as O ₂)	IS:3025(Part-44):1993	21.0	mg/l	30
5.	Oil & grease	IS:3025(Part-39):1984	<1.0	mg/l	10

Remarks: Test parameters coming in under limit, prescribe limits are given by MoEF/Central Pollution Control Board.

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TEST CERTIFICATE

Test Report of	Report Code	Date of Issue
Water Sample	W-050920-013	10/09/2020

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 : 05/09/2020
Sample Quantity : 2.0 lit
Sample packing Details : In Sealed Plastic Bottle & Glass Bottle
Analysis Duration : 05/09/2020 to 10/09/2020
Sample Description : Bore well Water
Sampling Location : Chemical Plant
Required Test Standard : IS 10500: 2012

MICROBIOLOGICAL REQUIREMENT

RESULTS				
S.No.	Parameter	Test Method	Results	Required as per IS-10500:2012
1.	<i>Escherichia coli</i>	IS-1622	Absent	Absent/100ml
2.	<i>Coliform Bacteria</i>	IS-1622	Absent	Absent/100ml

ORGANOLEPTIC & PHYSICAL PARAMETERS

S.No.	Parameter	Test Method	Result	Unit	Requirement (Acceptable Limit)	Permissible Limit in absence of alternate source
1.	Colour	IS-3025(P-04)	<1.00	Hazen Unit	5	15
2.	Odour	IS-3025(P-05)	Agreeable	-	Agreeable	Agreeable
3.	Taste	IS-3025(P-07 & 08)	Agreeable	-	Agreeable	-
4.	Turbidity	IS-3025(P-10)	<1.00	NTU	1	5
5.	pH value	IS-3025(P-11)	7.127	-	6.5 - 8.5	-
6.	Total dissolve solid (TDS)	IS-3025(P-16)	289	mg/l	500	2000

GENERAL PARAMETERS CONCERNING SUBSTANCES UNDESIRABLE IN EXCESSIVE AMOUNTS

S.No.	Parameter	Test method	Result	Unit	Requirement (Acceptable Limit)	Permissible Limit in absence of alternate source
1.	Aluminium (as Al)	IS: 3025 (P- 55)	<0.01	mg/l	0.03	0.2
2.	Total Ammonia	IS: 3025 (P- 34)	<0.10	mg/l	0.5	No Relaxation
3.	Anionic Detergents (as MBAS)	Annex K of IS-13428	<0.10	mg/l	0.2	1.0
4.	Barium (as Ba)	IS: 15302	<0.10	mg/l	0.7	No Relaxation
5.	Boron (as B)	IS: 3025 (P- 57)	<0.10	mg/l	0.5	1.0
6.	Calcium (as Ca)	IS: 3025 (P- 40)	32.50	mg/l	75	200

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7.	Chloramines (as Cl ₂)	IS: 3025 (P- 26)	<1.00	mg/l	4.0	No Relaxation
8.	Chloride (as Cl)	IS: 3025 (P- 32)	24.60	mg/l	250	1000
9.	Copper (as Cu)	IS : 3025 (P-42)	<0.05	mg/l	0.05	1.5
10.	Fluoride (as F)	IS: 3025 (P-60)	<1.0	mg/l	1.0	1.5
11.	Free Residual Chlorine	IS: 3025 (P-26)	BDL	mg/l	0.2	1.0
					To be applicable only when water is chlorinated, Tested at consumer end. When protection against viral infection is required, it should be minimum 0.5 mg/l.	
12.	Iron (as Fe)	IS: 3025(P-53)	0.045	mg/l	1.0	No Relaxation
13.	Magnesium (as mg)	IS: 3025 (P-46)	27.88	mg/l	30	100
14.	Manganese (as Mn)	IS: 3025 (P-59)	<0.10	mg/l	0.1	0.3
15.	Mineral Oil	Clause 6 of IS: 3025	<0.50	mg/l	0.5	No Relaxation
16.	Nitrate (as NO ₃)	IS: 3025 (P- 34)	2.12	mg/l	45	No Relaxation
17.	Selenium (as Se)	IS: 3025 (P- 56)	<0.01	mg/l	0.01	No Relaxation
18.	Silver (as Ag)	Annex J IS: 13428	<0.05	mg/l	0.1	No Relaxation
19.	Sulphate (as SO ₄)	IS: 3025 (P- 24)	16.8	mg/l	200	400
20.	Sulphide(as H ₂ S)	IS-3025 (P-29)	<0.05	mg/l	0.05	No Relaxation
21.	Alkalinity (as Ca CO ₃)	IS: 3025 (P- 23)	189.0	mg/l	200	600
22.	Total Hardness (as CaCO ₃)	IS: 3025 (P- 21)	196.0	mg/l	200	600
23.	Zinc (as Zn)	IS: 3025 (P- 49)	<0.05	mg/l	5.0	15

Parameters Concerning Toxic Substances:

S.No.	Parameter	Test method	Result	Unit	Requirement (Acceptable Limit)	Permissible Limit in absence of alternate source
1.	Cadmium (as Cd)	IS-3025(P-41)	<0.001	mg/l	0.003	No Relaxation
2.	Cyanide (as CN)	IS-3025(P-27)	<0.01	mg/l	0.05	No Relaxation
3.	Lead (as Pb)	IS-3025(P-47)	<0.01	mg/l	0.01	No Relaxation
4.	Mercury (as Hg)	IS-3025(P-48)	<0.001	mg/l	0.001	No Relaxation
5.	Molybdenum (Mo)	IS-3025(P-2)	<0.05	mg/l	0.07	No Relaxation
6.	Nickel (as Ni)	IS-3025(P-54)	<0.01	mg/l	0.02	No Relaxation
7.	Poly nuclear Aromatic Hydro Carbons	APHA 6440	<0.0001	mg/l	0.0001	No Relaxation
8.	Poly chlorinated biphenyl	APHA 6630	<0.0001	mg/l	0.0005	No Relaxation
9.	Total Arsenic (as As)	IS-3025(P-37)	<0.01	mg/l	0.01	No Relaxation
10.	Total Chromium (as Cr)	IS-3025(P-52)	<0.05	mg/l	0.05	No Relaxation

BDL: Below Detection limit.

Notes:

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- This test report will not be used for any publicity/legal purpose.
- The test samples will be disposed off after two weeks from the date of issue of test report, unless until specified by the customer.

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AUTHORIZED SIGNATORY



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

E. : noida.laboratory@gmail.com, info@noidalabs.com W.: www.noidalabs.com



TEST CERTIFICATE

Test Report of	Report Code	Date of Issue
Water Sample	W-050920-014	10/09/2020

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 : 05/09/2020
 Sample Quantity : 2.0 lit
 Sample packing Details : In Sealed Plastic Bottle & Glass Bottle
 Analysis Duration : 05/09/2020 to 10/09/2020
 Sample Description : Bore well Water
 Sampling Location : Ethanol Plant
 Required Test Standard : IS 10500: 2012

MICROBIOLOGICAL REQUIREMENT

RESULTS				
S.No.	Parameter	Test Method	Results	Required as per IS-10500:2012
1.	<i>Escherichia coli</i>	IS-1622	Absent	Absent/100ml
2.	<i>Coliform Bacteria</i>	IS-1622	Absent	Absent/100ml

ORGANOLEPTIC & PHYSICAL PARAMETERS

S.No.	Parameter	Test Method	Result	Unit	Requirement (Acceptable Limit)	Permissible Limit in absence of alternate source
1.	Colour	IS-3025(P-04)	<1.00	Hazen Unit	5	15
2.	Odour	IS-3025(P-05)	Agreeable	-	Agreeable	Agreeable
3.	Taste	IS-3025(P-07 & 08)	Agreeable	-	Agreeable	-
4.	Turbidity	IS-3025(P-10)	<1.00	NTU	1	5
5.	pH value	IS-3025(P-11)	7.18	-	6.5 - 8.5	-
6.	Total dissolve solid (TDS)	IS-3025(P-16)	368	mg/l	500	2000

GENERAL PARAMETERS CONCERNING SUBSTANCES UNDESIRABLE IN EXCESSIVE AMOUNTS

S.No.	Parameter	Test method	Result	Unit	Requirement (Acceptable Limit)	Permissible Limit in absence of alternate source
1.	Aluminium (as Al)	IS: 3025 (P- 55)	<0.01	mg/l	0.03	0.2
2.	Total Ammonia	IS: 3025 (P- 34)	<0.10	mg/l	0.5	No Relaxation
3.	Anionic Detergents (as MBAS)	Annex K of IS-13428	<0.10	mg/l	0.2	1.0
4.	Barium (as Ba)	IS: 15302	<0.10	mg/l	0.7	No Relaxation
5.	Boron (as B)	IS: 3025 (P- 57)	<0.10	mg/l	0.5	1.0
6.	Calcium (as Ca)	IS: 3025 (P- 40)	48.21	mg/l	75	200



Noida Testing Laboratories

(An ISO : 9001 : 2015, ISO 14001:2015 & ISO 45001:2018 & NABL Accredited Laboratory)

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

+91-9313611642, 8510081921, 7503031145, 8527870572, 7503031146, 9999794369

Analyzing for an Assured Future

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7.	Chloramines (as Cl ₂)	IS: 3025 (P- 26)	<1.00	mg/l	4.0	No Relaxation
8.	Chloride (as Cl)	IS: 3025 (P- 32)	27.18	mg/l	250	1000
9.	Copper (as Cu)	IS : 3025 (P-42)	<0.05	mg/l	0.05	1.5
10.	Fluoride (as F)	IS: 3025 (P-60)	<1.0	mg/l	1.0	1.5
11.	Free Residual Chlorine	IS: 3025 (P-26)	BDL	mg/l	0.2	1.0
To be applicable only when water is chlorinated. Tested at consumer end. When protection against viral infection is required, it should be minimum 0.5 mg/l.						
12.	Iron (as Fe)	IS: 3025(P-53)	0.061	mg/l	1.0	No Relaxation
13.	Magnesium (as mg)	IS: 3025 (P-46)	22.95	mg/l	30	100
14.	Manganese (as Mn)	IS: 3025 (P-59)	<0.10	mg/l	0.1	0.3
15.	Mineral Oil	Clause 6 of IS: 3025	<0.50	mg/l	0.5	No Relaxation
16.	Nitrate (as NO ₃)	IS: 3025 (P- 34)	2.38	mg/l	45	No Relaxation
17.	Selenium (as Se)	IS: 3025 (P- 56)	<0.01	mg/l	0.01	No Relaxation
18.	Silver (as Ag)	Annex J IS: 13428	<0.05	mg/l	0.1	No Relaxation
19.	Sulphate (as SO ₄)	IS: 3025 (P- 24)	21.5	mg/l	200	400
20.	Sulphide(as H ₂ S)	IS-3025 (P-29)	<0.05	mg/l	0.05	No Relaxation
21.	Alkalinity (as Ca CO ₃)	IS: 3025 (P- 23)	208.0	mg/l	200	600
22.	Total Hardness (as CaCO ₃)	IS: 3025 (P- 21)	215.0	mg/l	200	600
23.	Zinc (as Zn)	IS: 3025 (P- 49)	<0.05	mg/l	5.0	15

Parameters Concerning Toxic Substances:

S.No.	Parameter	Test method	Result	Unit	Requirement (Acceptable Limit)	Permissible Limit in absence of alternate source
1.	Cadmium (as Cd)	IS-3025(P-41)	<0.001	mg/l	0.003	No Relaxation
2.	Cyanide (as CN)	IS-3025(P-27)	<0.01	mg/l	0.05	No Relaxation
3.	Lead (as Pb)	IS-3025(P-47)	<0.01	mg/l	0.01	No Relaxation
4.	Mercury (as Hg)	IS-3025(P-48)	<0.001	mg/l	0.001	No Relaxation
5.	Molybdenum (Mo)	IS-3025(P-2)	<0.05	mg/l	0.07	No Relaxation
6.	Nickel (as Ni)	IS-3025(P-54)	<0.01	mg/l	0.02	No Relaxation
7.	Poly nuclear Aromatic Hydro Carbons	APHA 6440	<0.0001	mg/l	0.0001	No Relaxation
8.	Poly chlorinated biphenyl	APHA 6630	<0.0001	mg/l	0.0005	No Relaxation
9.	Total Arsenic (as As)	IS-3025(P-37)	<0.01	mg/l	0.01	No Relaxation
10.	Total Chromium (as Cr)	IS-3025(P-52)	<0.05	mg/l	0.05	No Relaxation

BDL: Below Detection limit.

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E. : noida.laboratory@gmail.com, info@noidalabs.com W.: www.noidalabs.com