



NOIDA TESTING LABORATORIES

(A Government of India Approved Testing Laboratory)

(An ISO : 9001 : 2015, ISO 45001 : 2018 (OH&S) Certified & NABL Accredited Laboratory)

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

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

TEST CERTIFICATE

Test Report of	Report Code	Date of Issue
Ambient Air Quality Analysis	AAQ-160922-01	21/09/2022

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

SAMPLING & ANALYSIS DATA

Sample Drawn By : NTL
 Date of Sample Received : 14/09/2022 to 15/09/2022
 Sample Description : Ambient Air
 Sampling Location : **Bio Gas Plant – Behind Laboratory**
 Sampling Plan & Procedure : SOP-AAQ/08
 Analysis Duration : 16/09/2022 to 21/09/2022
 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	75.10	µg /m ³	100.0
2.	Particulate Matter (PM _{2.5})	IS:5182 Part-XXIV	42.60	µg /m ³	60.0
3.	Sulphur Dioxide	IS:5182 Part-II	7.80	µg /m ³	80.0
4.	Nitrogen Dioxide	IS:5182 Part-VI	16.20	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)	IS:5182 Part-XXV	< 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	0.015	PPM	-
14.	Volatile Organic Compounds (VOCs)	IS:5182 Part-XI	0.032	PPM	-

Notes: -

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CHECKED BY

Ajali

AUTHORIZED SIGNATORY



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

Branch Office :

HARIDWAR | RUDRAPUR | CHANDIGARH | DEHRADUN | PUNE

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



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Analyzing for an Assured Future

TEST CERTIFICATE

Test Report of	Report Code	Date of Issue
Ambient Air Quality Analysis	AAQ-160922-02	21/09/2022

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

SAMPLING & ANALYSIS DATA

Sample Drawn By : NTL
 Date of Sample Received : 14/09/2022 to 15/09/2022
 Sample Description : Ambient Air
 Sampling Location : Coal Yard near Slop 2 Control Room
 Sampling Plan & Procedure : SOP-AAQ/08
 Analysis Duration : 16/09/2022 to 21/09/2022
 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})	IS:5182 Part-XXIV	45.08	µg /m ³	60.0
3.	Sulphur Dioxide	IS:5182 Part-II	8.34	µg /m ³	80.0
4.	Nitrogen Dioxide	IS:5182 Part-VI	19.40	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)	IS:5182 Part-XXV	< 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) 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-160922-03	21/09/2022

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

SAMPLING & ANALYSIS DATA

Sample Drawn By : NTL
 Date of Sample Received : 14/09/2022 to 15/09/2022
 Sample Description : Ambient Air
 Sampling Location : Fire Station
 Sampling Plan & Procedure : SOP-AAQ/08
 Analysis Duration : 16/09/2022 to 21/09/2022
 Average Flow Rate of SPM (m³/min.) : 1.09
 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	70.16	µg /m ³	100.0
2.	Particulate Matter (PM _{2.5})	IS:5182 Part-XXIV	35.80	µg /m ³	60.0
3.	Sulphur Dioxide	IS:5182 Part-II	7.02	µg /m ³	80.0
4.	Nitrogen Dioxide	IS:5182 Part-VI	16.18	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)	IS:5182 Part-XXV	< 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
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-160922-04	21/09/2022

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

SAMPLING & ANALYSIS DATA

Sample Drawn By : NTL
Date of Sample Received : 15/09/2022 to 16/09/2022
Sample Description : Ambient Air
Sampling Location : IGL Colony Near STP
Sampling Plan & Procedure : SOP-AAQ/08
Analysis Duration : 16/09/2022 to 21/09/2022
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	78.10	µg /m ³	100.0
2.	Particulate Matter (PM _{2.5})	IS:5182 Part-XXIV	42.30	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	19.80	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)	IS:5182 Part-XXV	< 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
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-160922-05	21/09/2022

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

SAMPLING & ANALYSIS DATA

Sample Drawn By : NTL
 Date of Sample Received : 15/09/2022 to 16/09/2022
 Sample Description : Ambient Air
 Sampling Location : Main Gate Near Security Office
 Sampling Plan & Procedure : SOP-AAQ/08
 Analysis Duration : 16/09/2022 to 21/09/2022
 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	78.80	µg /m ³	100.0
2.	Particulate Matter (PM _{2.5})	IS:5182 Part-XXIV	45.20	µg /m ³	60.0
3.	Sulphur Dioxide	IS:5182 Part-II	8.60	µg /m ³	80.0
4.	Nitrogen Dioxide	IS:5182 Part-VI	19.50	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)	IS:5182 Part-XXV	< 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
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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AUTHORIZED SIGNATORY



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

Branch Office :

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INDIA GLYCOLS LIMITED, LABORATORY

(A unit of India Glycols Limited, an ISO: 9001, ISO: 14001, OHSAS: 18001, ISO: 22000, ISSC: 22000, SA: 8000, ISO: 50001 certified Company)

A-1, Industrial Area Bazpur Road, Kashipur
District - Udham Singh Nagar - 244713 (Uttarakhand)
Email: igllabksn@gmail.com



TC - 10289

TEST REPORT

ULR No.	TC10289000000162F
Test Report No: TR/SM/2022/09/24-001	Issued Date: 24.09.2022
Issued to	M/s India Glycols Limited A - 1 Industrial Area, Bazpur Road Kashipur - 244713
Sample Description	Stack Emission
Sampling Location	DG 1 & 2
Date of Sampling	21.09.2022
Capacity (TPH/ KVA/ Kg/Hr)	3.0 MW
Type of Stack (Metal/RCC/Brick)	Metal
Shape of Stack (Circular/Rectangular)	Circular
Diameter of Stack (Meter)	1.0
Height of Stack from Ground Level (M)	45
Type of Fuel used (HSD/FO/Coal etc.)	RFO/FO
Fuel consumed per Hour	610 Kg
Ambient Temperature (°C)	29.0
Stack Temperature (°C)	152.0
Average velocity of emission (m/sec)	7.92
Average Flow Rate (LPM)	24.0
Duration of Sampling (min.)	42.0 (1330 Hrs. to 1413 Hrs.)
Sampling Protocol	IS:11255
Sampling Packing & Marking	Sealed Zip Poly Bag & plastic Bottle
Sample Drawn By	Sampling by Laboratory
Environmental Condition	Sunny Day
Date of Receipt of Sample:	21.09.2022
Analysis Duration	21.09.2022 to 22.09.2022

S.No	Test Parameter	Unit	Results	Emission Limits	Test Method
1.	Particulate Matter (PM) @ 12% CO ₂ correction	mg/Nm ³	85.53	150.0	IS: 11255 (P-1) 1985
2.	Sulphur Dioxide (SO ₂)	mg/Nm ³	46.38	--	IS: 11255 (P-2) 1985
3.	Nitrogen Oxides (as NO _x)	Ppmv	53.37	1100	IS: 11255 (P-7) 2005

End of Report

(Pradeep Pathak)
(Checked By)

(Authorized Signatory)
Dr. CHAKRESH PATHAK
QUALITY MANAGER
INDIA GLYCOLS LIMITED
LABORATORY
Kashipur (U.S. Nagar)

Note:

- 1) The test report refers only to tested sample and applicable parameters.
- 2) This report can neither be used as evidence in the court of law nor can it be used in part or full in any media without prior permission.
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INDIA GLYCOLS LIMITED, LABORATORY

(A unit of India Glycols Limited, an ISO: 9001, ISO: 14001, OHSAS: 18001, ISO: 22003, PSSC: 22000, SA: 8000, ISO: 51001 certified Company)

A-1, Industrial Area Bazpur Road, Kashipur
District - Udham Singh Nagar - 244713 (Uttarakhand)
Email: iullabksp@gmail.com



TC - 10289

TEST REPORT

ULR No.	TC10289000000163F
Test Report No: TR/SM/2022/09/24-002	Issued Date: 24.09.2022
Issued to	M/s India Glycols Limited A - 1 Industrial Area, Bazpur Road Kashipur - 244713
Sample Description	Stack Emission
Sampling Location	DG 3
Date of Sampling	21.09.2022
Capacity (TPH/ KVA/ Kg/Hr)	4.0 MW
Type of Stack (Metal/RCC/Brick)	Metal
Shape of Stack (Circular/Rectangular)	Circular
Diameter of Stack (Meter)	1.5
Height of Stack from Ground Level (M)	45
Type of Fuel used (HSD/FO/Coal etc.)	RFO/FO
Fuel consumed per Hour	810 Kg
Ambient Temperature (°C)	30.0
Stack Temperature (°C)	150.0
Average velocity of emission (m/sec)	8.38
Average Flow Rate (LPM)	25.0
Duration of Sampling (min.)	40.0 (1030 Hrs. to 1110 Hrs.)
Sampling Protocol	IS:11255
Sampling Packing & Marking	Sealed Zip Poly Bag & plastic Bottle
Sample Drawn By	Sampling by Laboratory
Environmental Condition	Sunny Day
Date of Receipt of Sample:	21.09.2022
Analysis Duration	21.09.2022 to 22.09.2022

RESULTS

S.No	Test Parameter	Unit	Results	Emission Limits	Test Method
1.	Particulate Matter (PM) @ 15% O ₂ correction	mg/Nm ³	76.65	150.0	IS: 11255 (P-1) 1985
2.	Sulphur Dioxide (SO ₂)	mg/Nm ³	57.72	—	IS: 11255 (P-2) 1985
3.	Nitrogen oxides (as NO _x)	ppmv	36.56	1100	IS: 11255 (P-7) 2005

End of Report

(Pradeep Pathak)
(Checked By)

(Authorized Signatory)
Dr. CHAKRESH PATHAK
QUALITY MANAGER
INDIA GLYCOLS LIMITED
LABORATORY
KASHIPUR (U.S. Nagar)

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INDIA GLYCOLS LIMITED, LABORATORY

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A-1, Industrial Area Bazpur Road, Kashipur
District - Udham Singh Nagar - 244713 (Uttarakhand)
Email: izllabso@gmail.com



TC - 10289

TEST REPORT

ULR No.	TC10289000000164F
Test Report No: TR/SM/2022/09/24-003	: Issued Date: 24.09.2022
Issued to	: M/s India Glycols Limited A - 1 Industrial Area, Bazpur Road Kashipur - 244713
Sample Description	: Stack Emission
Sampling Location	: DG 4
Date of Sampling	: 22.09.2022
Capacity (TPH/ KVA/ Kg/Hr)	: 4.0 MW
Type of Stack (Metal/RCC/Brick)	: Metal
Shape of Stack (Circular/Rectangular)	: Circular
Diameter of Stack (Meter)	: 1.5
Height of Stack from Ground Level (M)	: 45
Type of Fuel used (HSD/FO/Coal etc.)	: RFO/FO
Fuel consumed per Hour	: 810 Kg
Ambient Temperature (°C)	: 30.0
Stack Temperature (°C)	: 162.0
Average velocity of emission (m/sec)	: 8.60
Average Flow Rate (LPM)	: 25.0
Duration of Sampling (min.)	: 40.0 (1620 to 1700Hrs.)
Sampling Protocol	: IS:11255
Sampling Packing & Marking	: Sealed Zip Poly Bag & plastic Bottle
Sample Drawn By	: Sampling by Laboratory
Environmental Condition	: Sunny Day
Date of Receipt of Sample:	: 22.09.2022
Analysis Duration	: 22.09.2022 to 23.09.2022

S.No	Test Parameter	Unit	Results	Emission Limits	Test Method
1.	Particulate Matter (PM) @ 12% CO ₂ correction	mg/Nm ³	84.67	150.0	IS: 11255 (P-1) 1985
2.	Sulphur Dioxide (SO ₂)	mg/Nm ³	46.21	--	IS: 11255 (P-2) 1985
3.	Nitrogen Oxides (as NO _x)	Ppmv	55.60	1100	IS: 11255 (P-7) 2005

End of Report

(Pradeep Pathak)
(Checked By)

(Authorized Signatory)
Dr. CHAKRESH PATHAK
QUALITY MANAGER
INDIA GLYCOLS LIMITED
LABORATORY
Kashipur (U.S. Nagar)

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TEST CERTIFICATE

Test Report of Stack Emission	Report Code ST-160922-042	Date of Issue 21/09/2022
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Issued To: **M/s India Glycols Limited**
Address: **A-1, Industrial Area, Bazpur Road, Kashipur (Uttarakhand)- 244713**

SAMPLING & ANALYSIS DATA

Sample Drawn On	:	14/09/2022
Sample Drawn By	:	NTL
Sample description	:	Stack Emission
Sampling Time	:	30 minutes
Sampling Location	:	Slop Boiler - 2
Sampling Plan & Procedure	:	IS:11255
Analysis Duration	:	16/09/2022 to 21/09/2022
Stack Temperature (°C)	:	147
Capacity (TPH/KVA/Kg/Hr)	:	50 TPH
Fuel Consumption per hour	:	-
Type of Fuel used (HSD/FO/Coal etc)	:	Coal + Slop
Operating Load	:	Normal
Type of Stack	:	RCC circular
Diameter of Stack(meter)	:	2.5
Height of Stack from Ground level(meter)	:	100.0
Average Flow Rate (LPM)	:	16
Average Velocity of Emission (m/sec)	:	10.5
Quantity of Emission (Nm ³ /hr)	:	2612.0

TEST RESULT

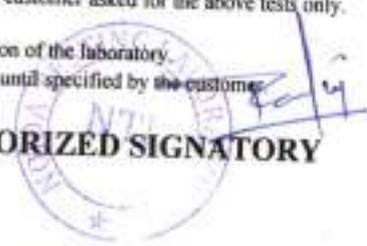
S. No.	Parameter	Test Method	Results	Units	Emission limits
1.	Particulate Matter (PM) @12% O ₂ Correction	IS:11255(Part-1)1985	86.50	mg/Nm ³	100
2.	Sulphur dioxide (as SO ₂)	IS:11255(Part-2)1985	62.40	mg/Nm ³	Limit Not Specified
3.	Nitrogen Oxide (as NO _x)	IS:11255(Part-7) 2005	71.20	mg/Nm ³	Limit Not Specified
4.	Mercury (as Hg)	APHA - AIR	ND	mg/Nm ³	-
5.	VOCs	GC-FID	ND	PPM	Limit Not Specified
6.	Methane	APHA-AIR	<0.1	mg/Nm ³	-

Notes:

1. The results given above are related to the tested sample, as received & mentioned parameters. The customer asked for the above tests only.
2. Responsibility of the Laboratory is limited to the invoiced amount only.
3. This test report will not be generated again, either wholly or in part, without prior written permission of the laboratory.
4. 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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TEST CERTIFICATE

Test Report of	Report Code	Date of Issue
Stack Emission	ST-160922-026	21/09/2022

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

SAMPLING & ANALYSIS DATA

Sample Drawn On	:	14/09/2022
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	:	16/09/2022 to 21/09/2022
Stack Temperature (°C)	:	124
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)	:	10.8
Quantity of Emission (Nm ³ /hr)	:	2512.0

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)	42.80	mg /Nm ³	50
2.	Sulphur dioxide (SO ₂)	IS:11255(Part-2)	110.0	mg /Nm ³	600
3.	Nitrogen dioxide (NO ₂)	IS:11255(Part-7)	95.8	mg /Nm ³	300
4.	Mercury (as Hg)	APHA-AIR	<0.01	mg /Nm ³	0.03

Notes:

1. The results given above are related to the tested sample, as received & mentioned parameters. The customer asked for the above tests only.
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4. 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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TEST CERTIFICATE

Test Report of Stack Emission	Report Code ST-160922-027	Date of Issue 21/09/2022
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Issued To: M/s India Glycols Limited
Address: A-1, Industrial Area, Bazpur Road, Kashipur (Uttarakhand)- 244713

SAMPLING & ANALYSIS DATA

Sample Drawn On	:	14/09/2022
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	:	16/09/2022 to 21/09/2022
Stack Temperature (°C)	:	136
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)	:	10.4
Quantity of Emission (Nm ³ /hr)	:	3218.4

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)	47.50	mg /Nm ³	50
2.	Sulphur dioxide (SO ₂)	IS:11255(Part-2)	82.10	mg /Nm ³	600
3.	Nitrogen dioxide (NO ₂)	IS:11255(Part-7)	64.20	mg /Nm ³	300
4.	Mercury (as Hg)	APHA-AIR	<0.01	mg /Nm ³	0.03

Notes:

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TEST CERTIFICATE

Test Report of	Report Code	Date of Issue
Stack Emission	ST-160922-028	21/09/2022

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

SAMPLING & ANALYSIS DATA

Sample Drawn On	:	14/09/2022
Sample Drawn By	:	NTL
Sample description	:	Stack Emission
Sampling Time	:	30 minutes
Sampling Location	:	Slop Boiler - 01
Sampling Plan & Procedure	:	IS:11255
Analysis Duration	:	16/09/2022 to 21/09/2022
Stack Temperature (°C)	:	135
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)	:	10.8
Quantity of Emission (Nm ³ /hr)	:	3456.4

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)	48.0	mg /Nm ³	50
2.	Sulphur dioxide (SO ₂)	IS:11255(Part-2)	91.2	mg /Nm ³	600
3.	Nitrogen dioxide (NO ₂)	IS:11255(Part-7)	86.5	mg /Nm ³	300
4.	Mercury (as Hg)	APHA-AIR	<0.01	mg /Nm ³	0.03

Notes:

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TEST CERTIFICATE

Test Report of	Report Code	Date of Issue
Stack Emission	ST-160922-029	21/09/2022

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

SAMPLING & ANALYSIS DATA

Sample Drawn On	:	14/09/2022
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	:	16/09/2022 to 21/09/2022
Stack Temperature (°C)	:	145
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)	:	10.4
Quantity of Emission (Nm ³ /hr)	:	2812.5

TEST RESULT

S. No.	Parameter	Test Method	Results	Units	Emission limits
1.	Particulate Matter (PM)	IS:11255(Part-1)	46.20	mg /Nm ³	50
2.	Sulphur dioxide (SO ₂)	IS:11255(Part-2)	60.51	mg /Nm ³	600
3.	Nitrogen dioxide (NO ₂)	IS:11255(Part-7)	89.16	mg /Nm ³	300
4.	Mercury (as Hg)	APHA-AIR	<0.01	mg /Nm ³	0.03

Notes:

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TEST CERTIFICATE

Test Report of	Report Code	Date of Issue
Stack Emission	ST-160922-040	21/09/2022

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

SAMPLING & ANALYSIS DATA

Sample Drawn On	:	14/09/2022
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	:	16/09/2022 to 21/09/2022
Stack Temperature (°C)	:	132
Capacity (TPH/KVA/Kg/Hr)	:	-
Fuel Consumption per hour	:	0.25 + 200
Type of Fuel used (HSD/FO/Coal etc)	:	FO + Biogas
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)	:	16
Average Velocity of Emission (m/sec)	:	8.2
Quantity of Emission (Nm ³ /hr)	:	2880.0

TEST RESULT

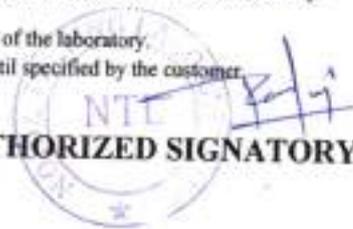
S. No.	Parameter	Test Method	Results	Units	Emission limits
1.	Particulate Matter (PM)	IS:11255(Part-1)1985	36.21	mg/Nm ³	50
2.	Sulphur dioxide (as SO ₂)	IS:11255(Part-2)1985	76.50	mg/Nm ³	600
3.	Nitrogen Oxide (as NO _x)	IS:11255(Part-7) 2005	60.18	mg/Nm ³	300
4.	Mercury (as Hg)	APHA-Air	<0.01	mg/Nm ³	0.03

Notes:

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TEST CERTIFICATE

Test Report of	Report Code	Date of Issue
Stack Emission	ST-160922-041	21/09/2022

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

SAMPLING & ANALYSIS DATA

Sample Drawn On	:	14/09/2022
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	:	16/09/2022 to 21/09/2022
Stack Temperature (°C)	:	136
Capacity (TPH/KVA/Kg/Hr)	:	-
Fuel Consumption per hour	:	0.25 + 200
Type of Fuel used (HSD/FO/Coal etc)	:	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)	:	17
Average Velocity of Emission (m/sec)	:	11.2
Quantity of Emission (Nm ³ /hr)	:	2821.0

TEST RESULT

S. No.	Parameter	Test Method	Results	Units	Emission limits
1.	Particulate Matter (PM)	IS:11255(Part-1)1985	41.20	mg/Nm ³	50
2.	Sulphur dioxide (as SO ₂)	IS:11255(Part-2)1985	28.50	mg/Nm ³	600
3.	Nitrogen Oxide (as NO _x)	IS:11255(Part-7)2005	76.80	mg/Nm ³	300
4.	Mercury (as Hg)	APHA-Air	<0.01	mg/Nm ³	0.03

Notes:

1. The results given above are related to the tested sample, as received & mentioned parameters. The customer asked for the above tests only.
2. Responsibility of the Laboratory is limited to the invoiced amount only.
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4. 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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TEST CERTIFICATE

Test Report of Stack Emission	Report Code ST-160922-043	Date of Issue 21/09/2022
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Issued To: **M/s India Glycols Limited**
Address: **A-1, Industrial Area, Bazpur Road, Kashipur (Uttarakhand)- 244713**

SAMPLING & ANALYSIS DATA

Sample Drawn On	:	14/09/2022
Sample Drawn By	:	NTL
Sample description	:	Stack Emission
Sampling Time	:	30 minutes
Sampling Location	:	TBW Boiler
Sampling Plan & Procedure	:	IS:11255
Analysis Duration	:	16/09/2022 to 21/09/2022
Stack Temperature (°C)	:	154.0
Capacity (TPH/KVA/Kg/Hr)	:	45 TPH
Fuel Consumption per hour	:	-
Type of Fuel used (HSD/FO/Coal etc)	:	Coal
Operating Load	:	Normal
Type of Stack	:	RCC circular
Diameter of Stack (meter)	:	1.5
Height of Stack from Ground level (meter)	:	68.0
Average Flow Rate (LPM)	:	16
Average Velocity of Emission (m/sec)	:	11.8
Quantity of Emission (Nm ³ /hr)	:	2921.8

TEST RESULT

S. No.	Parameter	Test Method	Results	Units	Emission limits
1.	Particulate Matter (PM) @12% O ₂ Correction	IS:11255(Part-1)1985	45.16	mg/Nm ³	50
2.	Sulphur dioxide (as SO ₂)	IS:11255(Part-2)1985	60.25	mg/Nm ³	600
3.	Nitrogen Oxide (as NO _x)	IS:11255(Part-7)2005	72.80	mg/Nm ³	300
4.	Mercury (as Hg)	APHA - AIR	ND	mg/Nm ³	0.03
5.	VOCs	GC-FID	ND	PPM	Limit Not Specified
6.	Methane	APHA-AIR	<0.1	mg/Nm ³	-

Notes:

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- Responsibility of the Laboratory is limited to the invoiced amount only.
- This test report will not be generated again, either wholly or in part, without prior written permission of the laboratory.
- 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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TEST CERTIFICATE

Test Report of	Report Code	Date of Issue
Stack Emission	ST-160922-044	21/09/2022

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

SAMPLING & ANALYSIS DATA

Sample Drawn On	:	14/09/2022
Sample Drawn By	:	NTL
Sample description	:	Stack Emission
Sampling Time	:	30 minutes
Sampling Location	:	CVL- Boiler
Sampling Plan & Procedure	:	IS:11255
Analysis Duration	:	16/09/2022 to 21/09/2022
Stack Temperature (°C)	:	137
Capacity (TPH/KVA/Kg/Hr)	:	20 TPH
Fuel Consumption per hour	:	-
Type of Fuel used (HSD/FO/Coal etc)	:	Coal + Slop
Operating Load	:	Normal
Type of Stack	:	RCC circular
Diameter of Stack(meter)	:	1.47
Height of Stack from Ground level(meter)	:	45.0
Average Flow Rate (LPM)	:	16
Average Velocity of Emission (m/sec)	:	10.7
Quantity of Emission (Nm ³ /hr)	:	2940.0

TEST RESULT

S. No.	Parameter	Test Method	Results	Units	Emission limits
1.	Particulate Matter (PM) @12% O ₂ Correction	IS:11255(Part-1)1985	47.10	mg/Nm ³	50
2.	Sulphur dioxide (as SO ₂)	IS:11255(Part-2)1985	62.50	mg/Nm ³	600
3.	Nitrogen Oxide (as NO _x)	IS:11255(Part-7)2005	89.20	mg/Nm ³	300
4.	Mercury (as Hg)	APHA - AIR	ND	mg/Nm ³	0.03
5.	VOCs	GC-FID	ND	PPM	Limit Not Specified
6.	Methane	APHA-AIR	<0.1	mg/Nm ³	-

Notes:

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(An ISO : 9001 : 2015, ISO 45001 : 2018 (OH&S) Certified & NABL Accredited Laboratory)

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

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TEST CERTIFICATE

Test Report of Waste Water	Report Code WW-160922-025	Date of Issue 21/09/2022
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Issued To: **M/s India Glycols Limited**
Address: **A-1, Industrial Area, Bazpur Road, Kashipur (Uttarakhand)- 244713**

SAMPLING & ANALYSIS DATA

Sample Drawn On : 15/09/2022
Sample Drawn By : NTL
Sample Description : ETP Outlet
Sample Received On : 16/09/2022
Sample Quantity/Packing detail : 2 lt/Plastic Cane
Analysis Duration : 16/09/2022 to 21/09/2022

TEST RESULTS

S.No	Parameter	Test Method	Results	Units	Limits as per E(P) Rule
1.	pH	USEPA-150.1	7.38	-	5.0 - 9.0
2.	Chemical Oxygen demand (as O ₂)	USEPA-410.4	141.0	mg/l	250.0
3.	Biological Oxygen demand (as O ₂)	USEPA-405.1	23.0	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	0.25	mg/l	5.0
6.	Phosphates, (as P)	IS:3025(Part-31)	1.02	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)	38.0	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

Notes:

- The results given above are related to the tested sample, as received & mentioned parameters. The customer asked for the above tests only.
- Responsibility of the Laboratory is limited to the invoiced amount only.
- This test report will not be generated again, either wholly or in part, without prior written permission of the laboratory.
- The test samples will be disposed off after two weeks from the date of issue of test report, unless until specified by the customer.

Checked by
Aljali
CHECKED BY

AUTHORIZED SIGNATORY



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

Branch Office :

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