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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-100322-020	16/03/2022

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 : 07/03/2022 to 08/03/2022
Sample Description : Ambient Air
Sampling Location : **Bio Gas Plant – Behind Laboratory**
Sampling Plan & Procedure : SOP-AAQ/08
Analysis Duration : 10/03/2022 to 16/03/2022
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	82.16	µg /m ³	100.0
2.	Particulate Matter (PM _{2.5})	IS:5182 Part-XXIV	45.72	µg /m ³	60.0
3.	Sulphur Dioxide	IS:5182 Part-II	12.50	µg /m ³	80.0
4.	Nitrogen Dioxide	IS:5182 Part-VI	18.36	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	0.016	PPM	-
14.	Volatile Organic Compounds (VOCs)	IS:5182 Part-XI	0.038	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-100322-021	16/03/2022

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 : 07/03/2022 to 08/03/2022
 Sample Description : Ambient Air
 Sampling Location : Coal Yard near Slop 2 Control Room
 Sampling Plan & Procedure : SOP-AAQ/08
 Analysis Duration : 10/03/2022 to 16/03/2022
 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	85.60	µg/m ³	100.0
2.	Particulate Matter (PM _{2.5})	IS:5182 Part-XXIV	46.27	µg/m ³	60.0
3.	Sulphur Dioxide	IS:5182 Part-II	10.89	µg/m ³	80.0
4.	Nitrogen Dioxide	IS:5182 Part-VI	21.54	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	12.0	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	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-100322-022	16/03/2022

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 : 07/03/2022 to 08/03/2022
Sample Description : Ambient Air
Sampling Location : **Fire Station**
Sampling Plan & Procedure : SOP-AAQ/08
Analysis Duration : 10/03/2022 to 16/03/2022
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	78.50	µg /m ³	100.0
2.	Particulate Matter (PM _{2.5})	IS:5182 Part-XXIV	40.16	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	16.35	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) 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-100322-023	16/03/2022

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 : 08/03/2022 to 09/03/2022
Sample Description : Ambient Air
Sampling Location : IGL Colony Near STP
Sampling Plan & Procedure : SOP-AAQ/08
Analysis Duration : 10/03/2022 to 16/03/2022
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	80.25	µg /m ³	100.0
2.	Particulate Matter (PM _{2.5})	IS:5182 Part-XXIV	41.06	µg /m ³	60.0
3.	Sulphur Dioxide	IS:5182 Part-II	8.14	µg /m ³	80.0
4.	Nitrogen Dioxide	IS:5182 Part-VI	19.20	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	12.2	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	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-100322-023	16/03/2022

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 : 08/03/2022 to 09/03/2022
Sample Description : Ambient Air
Sampling Location : Main Gate Near Security Office
Sampling Plan & Procedure : SOP-AAQ/08
Analysis Duration : 10/03/2022 to 16/03/2022
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	86.15	µg/m ³	100.0
2.	Particulate Matter (PM _{2.5})	IS:5182 Part-XXIV	44.60	µg/m ³	60.0
3.	Sulphur Dioxide	IS:5182 Part-II	9.58	µg/m ³	80.0
4.	Nitrogen Dioxide	IS:5182 Part-VI	20.46	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	12.5	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) 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 Stack Emission	Report Code ST-070322-038	Date of Issue 16/03/2022
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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	08/03/2022
Sample Drawn By	NTL
Sample description	Stack Emission
Sampling Time	30 minutes
Sampling Location	DG 1 & 2
Sampling Plan & Procedure	IS:11255
Analysis Duration	10/03/2022 to 16/03/2022
Stack Temperature (°C)	126
Capacity (TPH/KVA/Kg/Hr)	3 MW
Fuel Consumption per hour	610 kg
Type of Fuel used (HSD/FO/Coal etc)	RFO/FO
Operating Load	Normal
Type of Stack	Metal circular
Diameter of Stack(meter)	2.0
Height of Stack from Ground level(meter)	45.0
Average Flow Rate (LPM)	15
Average Velocity of Emission (m/sec)	10.4
Quantity of Emission (Nm ³ /hr)	3216.0

TEST RESULT

S. No.	Parameter	Test Method	Results	Units	Emission limits
1.	Particulate Matter (PM) @15% O ₂ Correction	IS:11255(Part-1)1985	94.12	mg/Nm ³	150
2.	Sulphur dioxide (as SO ₂)	IS:11255(Part-2)1985	48.50	mg/Nm ³	Limit Not Specified
3.	Nitrogen Oxide (as NO _x)	IS:11255(Part-7) 2005	82.10	ppmv	1100

Notes:

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Every
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TEST CERTIFICATE

Test Report of	Report Code	Date of Issue
Stack Emission	ST-070322-039	16/03/2022

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

SAMPLING & ANALYSIS DATA

Sample Drawn On	:	08/03/2022
Sample Drawn By	:	NTL
Sample description	:	Stack Emission
Sampling Time	:	30 minutes
Sampling Location	:	DG 3
Sampling Plan & Procedure	:	IS:11255
Analysis Duration	:	10/03/2022 to 16/03/2022
Stack Temperature (°C)	:	138
Capacity (TPH/KVA/Kg/Hr)	:	4 MW
Fuel Consumption per hour	:	810 kg
Type of Fuel used (HSD/FO/Coal etc)	:	RFO/FO
Operating Load	:	Normal
Type of Stack	:	Metal circular
Diameter of Stack(meter)	:	1.5
Height of Stack from Ground level(meter)	:	45.0
Average Flow Rate (LPM)	:	17
Average Velocity of Emission (m/sec)	:	12.5
Quantity of Emission (Nm ³ /hr)	:	3408.0

TEST RESULT

S. No.	Parameter	Test Method	Results	Units	Emission limits
1.	Particulate Matter (PM) @15% O ₂ Correction	IS:11255(Part-1)1985	96.40	mg/Nm ³	150
2.	Sulphur dioxide (as SO ₂)	IS:11255(Part-2)1985	52.16	mg/Nm ³	Limit Not Specified
3.	Nitrogen Oxide (as NO _x)	IS:11255(Part-7) 2005	78.34	ppmv	1100

Notes:

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TEST CERTIFICATE

Test Report of	Report Code	Date of Issue
Stack Emission	ST-070322-040	16/03/2022

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

SAMPLING & ANALYSIS DATA

Sample Drawn On	:	08/03/2022
Sample Drawn By	:	NTL
Sample description	:	Stack Emission
Sampling Time	:	30 minutes
Sampling Location	:	DG 4
Sampling Plan & Procedure	:	IS:11255
Analysis Duration	:	10/03/2022 to 16/03/2022
Stack Temperature (°C)	:	134
Capacity (TPH/KVA/Kg/Hr)	:	4 MW
Fuel Consumption per hour	:	810 kg
Type of Fuel used (HSD/FO/Coal etc)	:	RFO/FO
Operating Load	:	Normal
Type of Stack	:	Metal circular
Diameter of Stack(meter)	:	1.5
Height of Stack from Ground level(meter)	:	45.0
Average Flow Rate (LPM)	:	17
Average Velocity of Emission (m/sec)	:	10.9
Quantity of Emission (Nm ³ /hr)	:	3411.0

TEST RESULT

S. No.	Parameter	Test Method	Results	Units	Emission limits
1.	Particulate Matter (PM) @15% O ₂ Correction	IS:11255(Part-1)1985	85.16	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	76.29	ppmv	1100

Notes:

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Industry Environmental
Testing

TEST CERTIFICATE

Test Report of	Report Code	Date of Issue
Stack Emission	ST-070322-046	16/03/2022

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

SAMPLING & ANALYSIS DATA

Sample Drawn On	:	08/03/2022
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	:	10/03/2022 to 16/03/2022
Stack Temperature (°C)	:	118
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)	:	10.5
Quantity of Emission (Nm ³ /hr)	:	2412.8

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)	44.76	mg /Nm ³	50
2.	Sulphur dioxide (SO ₂)	IS:11255(Part-2)	89.12	mg /Nm ³	600
3.	Nitrogen dioxide (NO ₂)	IS:11255(Part-7)	94.36	mg /Nm ³	300
4.	Mercury (as Hg)	APHA-AIR	<0.01	mg /Nm ³	0.03

Notes:

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AUTHORIZED SIGNATORY

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

Branch Office :

HARIDWAR | RUDRAPUR | CHANDIGARH | DEHRADUN | PUNE

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Haridwar, Dehradun & Noida
Laboratory

TEST CERTIFICATE

Test Report of	Report Code	Date of Issue
Stack Emission	ST-070322-047	16/03/2022

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

SAMPLING & ANALYSIS DATA

Sample Drawn On	:	08/03/2022
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	:	10/03/2022 to 16/03/2022
Stack Temperature (°C)	:	121
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)	:	3456.80

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)	38.60	mg /Nm ³	50
2.	Sulphur dioxide (SO ₂)	IS:11255(Part-2)	57.18	mg /Nm ³	600
3.	Nitrogen dioxide (NO ₂)	IS:11255(Part-7)	68.29	mg /Nm ³	300
4.	Mercury (as Hg)	APHA-AIR	<0.01	mg /Nm ³	0.03

Notes:

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Established by Government of India

TEST CERTIFICATE

Test Report of	Report Code	Date of Issue
Stack Emission	ST-070322-048	16/03/2022

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

SAMPLING & ANALYSIS DATA

Sample Drawn On	:	08/03/2022
Sample Drawn By	:	NTL
Sample description	:	Stack Emission
Sampling Time	:	30 minutes
Sampling Location	:	Slop Boiler - 01
Sampling Plan & Procedure	:	IS:11255
Analysis Duration	:	10/03/2022 to 16/03/2022
Stack Temperature (°C)	:	124
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)	:	10.5
Quantity of Emission (Nm ³ /hr)	:	3316.20

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)	40.21	mg /Nm ³	50
2.	Sulphur dioxide (SO ₂)	IS:11255(Part-2)	76.35	mg /Nm ³	600
3.	Nitrogen dioxide (NO ₂)	IS:11255(Part-7)	92.18	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-070322-043	16/03/2022

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

SAMPLING & ANALYSIS DATA

Sample Drawn On	:	08/03/2022
Sample Drawn By	:	NTL
Sample description	:	Stack Emission
Sampling Time	:	30 minutes
Sampling Location	:	Slop Boiler - 2
Sampling Plan & Procedure	:	IS:11255
Analysis Duration	:	10/03/2022 to 16/03/2022
Stack Temperature (°C)	:	138
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)	:	2318.0

TEST RESULT

S. No.	Parameter	Test Method	Results	Units	Emission limits
1.	Particulate Matter (PM) @12% O ₂ Correction	IS:11255(Part-1)1985	85.27	mg/Nm ³	100
2.	Sulphur dioxide (as SO ₂)	IS:11255(Part-2)1985	56.40	mg/Nm ³	Limit Not Specified
3.	Nitrogen Oxide (as NO _x)	IS:11255(Part-7) 2005	78.50	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:

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TEST CERTIFICATE

Test Report of Stack Emission	Report Code ST-070322-044	Date of Issue 16/03/2022
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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	:	08/03/2022
Sample Drawn By	:	NTL
Sample description	:	Stack Emission
Sampling Time	:	30 minutes
Sampling Location	:	TBW Boiler
Sampling Plan & Procedure	:	IS:11255
Analysis Duration	:	10/03/2022 to 16/03/2022
Stack Temperature (°C)	:	138
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)	:	2954.10

TEST RESULT

S. No.	Parameter	Test Method	Results	Units	Emission limits
1.	Particulate Matter (PM) @12% O ₂ Correction	IS:11255(Part-1)1985	41.25	mg/Nm ³	50
2.	Sulphur dioxide (as SO ₂)	IS:11255(Part-2)1985	56.80	mg/Nm ³	600
3.	Nitrogen Oxide (as NO _x)	IS:11255(Part-7) 2005	84.16	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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TEST CERTIFICATE

Test Report of	Report Code	Date of Issue
Stack Emission	ST-070322-045	16/03/2022

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

SAMPLING & ANALYSIS DATA

Sample Drawn On	:	08/03/2022
Sample Drawn By	:	NTL
Sample description	:	Stack Emission
Sampling Time	:	30 minutes
Sampling Location	:	CVL- Boiler
Sampling Plan & Procedure	:	IS:11255
Analysis Duration	:	10/03/2022 to 16/03/2022
Stack Temperature (°C)	:	138
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)	:	10.2
Quantity of Emission (Nm ³ /hr)	:	2718.0

TEST RESULT

S. No.	Parameter	Test Method	Results	Units	Emission limits
1.	Particulate Matter (PM) @12% O ₂ Correction	IS:11255(Part-1)1985	44.50	mg/Nm ³	50
2.	Sulphur dioxide (as SO ₂)	IS:11255(Part-2)1985	56.10	mg/Nm ³	600
3.	Nitrogen Oxide (as NO _x)	IS:11255(Part-7) 2005	78.23	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	-

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TEST CERTIFICATE

Test Report of	Report Code	Date of Issue
Waste Water	WW-100322-031	16/03/2022

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

SAMPLING & ANALYSIS DATA

Sample Drawn On : 08/03/2022
Sample Drawn By : NTL
Sample Description : ETP Outlet
Sample Received On : 10/03/2022
Sample Quantity/Packing detail : 2 lb/Plastic Cane
Analysis Duration : 10/03/2022 to 16/03/2022

TEST RESULTS

S.No	Parameter	Test Method	Results	Units	Limits as per E(P) Rule
1.	pH	USEPA-150.1	7.28	-	5.0 - 9.0
2.	Chemical Oxygen demand (as O ₂)	USEPA-410.4	146.0	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	0.28	mg/l	5.0
6.	Phosphates, (as P)	IS:3025(Part-31)	1.19	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)	34.0	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.A.003)	100	mg/l	Should be 90 % Survival

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