



Analyzing for an Assured Future

NOIDA TESTING LABORATORIES

(A Government Approved Testing Laboratory)

(An ISO : 9001 : 2015, 14001 : 2015 & ISO 45001 : 2018 & NABL Accredited 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
Stack Emission	ST-030321-06	12/03/2021

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 : 40 minutes
 Sampling Location : Slop Boiler - 2
 Sampling Plan & Procedure : IS:11255
 Analysis Duration : 03/03/2021 to 08/03/2021
 Stack Temperature (°C) : 145
 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) : 12.1

TEST RESULT

S. No.	Parameter	Test Method	Results	Units	Emission Limits
1.	Particulate Matter (PM) @12% O ₂ Correction	IS:11255(Part-1)1985	82.15	mg/Nm ³	150
2.	Sulphur dioxide (as SO ₂)	IS:11255(Part-2)1985	46.20	mg/Nm ³	Limit Not Specified
3.	Nitrogen Oxide (as NO _x)	IS:11255(Part-7) 2005	62.16	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	-

*ND- Not Detected

Notes:

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

Branch Office : IP-2, Haridwar, Uttarakhand

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TEST CERTIFICATE

Test Report of	Report Code	Date of Issue
Stack Emission	ST-030321-01	12/03/2021

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	:	32 minutes
Sampling Location	:	DG 1 & 2
Sampling Plan & Procedure	:	IS:11255
Analysis Duration	:	03/03/2021 to 08/03/2021
Stack Temperature (°C)	:	116
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

TEST RESULT

S. No.	Parameter	Test Method	Results	Units	Emission Limits
1.	Particulate Matter (PM) @15% O ₂ Correction	IS:11255(Part-1)1985	86.23	mg/Nm ³	150
2.	Sulphur dioxide (as SO ₂)	IS:11255(Part-2)1985	38.50	mg/Nm ³	Limit Not Specified
3.	Nitrogen Oxide (as NO _x)	IS:11255(Part-7) 2005	70.46	ppmv	1100

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TEST CERTIFICATE

Test Report of	Report Code	Date of Issue
Stack Emission	ST-220221-02	27/02/2021

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 : 40 minutes
 Sampling Location : DG 3
 Sampling Plan & Procedure : IS:11255
 Analysis Duration : 22/02/2021 to 26/02/2021
 Stack Temperature (°C) : 128
 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) : 12.2

TEST RESULT

S. No.	Parameter	Test Method	Results	Units	Emission Limits
1.	Particulate Matter (PM) @15% O ₂ Correction	IS:11255(Part-1)1985	86.12	mg/Nm ³	150
2.	Sulphur dioxide (as SO ₂)	IS:11255(Part-2)1985	40.18	mg/Nm ³	Limit Not Specified
3.	Nitrogen Oxide (as NO _x)	IS:11255(Part-7) 2005	73.05	ppmv	1100

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TEST CERTIFICATE

Test Report of	Report Code	Date of Issue
Stack Emission	ST-030321-03	12/03/2021

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 : DG 4
 Sampling Plan & Procedure : IS:11255
 Analysis Duration : 03/03/2021 to 08/03/2021
 Stack Temperature (°C) : 123
 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) : 13.2

TEST RESULT

S. No.	Parameter	Test Method	Results	Units	Emission Limits
1.	Particulate Matter (PM) @15% O ₂ Correction	IS:11255(Part-1)1985	86.50	mg/Nm ³	150
2.	Sulphur dioxide (as SO ₂)	IS:11255(Part-2)1985	42.18	mg/Nm ³	Limit Not Specified
3.	Nitrogen Oxide (as NO _x)	IS:11255(Part-7) 2005	80.22	ppmv	1100

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TEST CERTIFICATE

Test Report of	Report Code	Date of Issue
Stack Emission	ST-030321-04	12/03/2021

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 : 36 minutes
Sampling Location : MEG Heater (B -110)
Sampling Plan & Procedure : IS:11255
Analysis Duration : 03/03/2021 to 08/03/2021
Stack Temperature (°C) : 131
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) : 10.5

TEST RESULT

S. No.	Parameter	Test Method	Results	Units	Emission Limits
1.	Particulate Matter (PM)	IS:11255(Part-1)1985	78.80	mg/Nm ³	150
2.	Sulphur dioxide (as SO ₂)	IS:11255(Part-2)1985	34.56	mg/Nm ³	Limit Not Specified
3.	Nitrogen Oxide (as NO _x)	IS:11255(Part-7) 2005	51.20	mg/Nm ³	Limit Not Specified

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TEST CERTIFICATE

Report of	Report Code	Date of Issue
Stack Emission	ST-030321-05	12/03/2021

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 : 28 minutes
Sampling Location : MEG Heater (B -110 B)
Sampling Plan & Procedure : IS:11255
Analysis Duration : 03/03/2021 to 08/03/2021
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) : 12.2

TEST RESULT

S. No.	Parameter	Test Method	Results	Units	Emission Limits
1.	Particulate Matter (PM)	IS:11255(Part-1)1985	81.23	mg/Nm ³	150
2.	Sulphur dioxide (as SO ₂)	IS:11255(Part-2)1985	37.45	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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TEST CERTIFICATE

Test Report of	Report Code	Date of Issue
Stack Emission	ST-030321-07	12/03/2021

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 : 36 minutes
Sampling Location : TBW Boiler
Sampling Plan & Procedure : IS:11255
Analysis Duration : 08/12/2020 to 15/12/2020
Stack Temperature (°C) : 126
Capacity (TPH/KVA/Kg/Hr) : 45 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) : 1.5
Height of Stack from Ground level(meter) : 68.0
Average Flow Rate (LPM) : 16
Average Velocity of Emission (m/sec) : 11.5

TEST RESULT

S. No.	Parameter	Test Method	Results	Units	Emission Limits
1.	Particulate Matter (PM) @12% O ₂ Correction	IS:11255(Part-1)1985	80.76	mg/Nm ³	150.0
2.	Sulphur dioxide (as SO ₂)	IS:11255(Part-2)1985	40.21	mg/Nm ³	600.0
3.	Nitrogen Oxide (as NO _x)	IS:11255(Part-7) 2005	65.50	mg/Nm ³	300.0
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	-

*ND- Not Detected

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TEST CERTIFICATE

Test Report of	Report Code	Date of Issue
Stack Emission	ST-030321-08	12/03/2021

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 : 36 minutes
 Sampling Location : CVL- Boiler
 Sampling Plan & Procedure : IS:11255
 Analysis Duration : 08/12/2020 to 15/12/2020
 Stack Temperature (°C) : 126
 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) : 11.5

TEST RESULT

S. No.	Parameter	Test Method	Results	Units	Emission Limits
1.	Particulate Matter (PM) @12% O ₂ Correction	IS:11255(Part-1)1985	80.76	mg/Nm ³	150.0
2.	Sulphur dioxide (as SO ₂)	IS:11255(Part-2)1985	40.21	mg/Nm ³	600.0
3.	Nitrogen Oxide (as NO _x)	IS:11255(Part-7) 2005	65.50	mg/Nm ³	300.0
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	-

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TEST CERTIFICATE

Test Report of	Report Code	Date of Issue
Stack Emission	ST-060321-03	15/03/2021

Issued To: M/s India Glycols Limited

A-1, Industrial Area, Bazpur Road, Kashipur (Uttarakhand)- 244713

SAMPLING & ANALYSIS DATA

Sample Drawn By	:	N.T.L.
Sample description	:	Stack Emission
Sampling Time	:	30 minutes
Sampling Location	:	Slop Boiler - 01
Sampling Plan & Procedure	:	IS:11255
Analysis Duration	:	08/03/2021 to 12/03/2021
Stack Temperature (°C)	:	120
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
Average Flow Rate (LPM)	:	26.0
Average Velocity of Emission (m/sec)	:	11.0

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)	44.89	mg /Nm ³	50
2.	Sulphur dioxide (SO ₂)	IS:11255(Part-2)	62.35	mg /Nm ³	600
3.	Nitrogen dioxide (NO ₂)	IS:11255(Part-7)	78.28	mg /Nm ³	300
4.	Mercury (as Hg)	APHA-AIR	<0.01	mg/l	0.03

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TEST CERTIFICATE

Test Report of	Report Code	Date of Issue
Stack Emission	ST-060321-02	15/03/2021

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	:	35 minutes
Sampling Location	:	IJT 80 T Boiler
Sampling Plan & Procedure	:	IS:11255
Analysis Duration	:	08/03/2021 to 12/03/2021
Stack Temperature (°C)	:	123
Capacity (TPH/KVA/Kg/Hr)	:	80 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)	:	80
Average Flow Rate (LPM)	:	15.8
Average Velocity of Emission (m/sec)	:	11.1

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)	42.16	mg /Nm ³	50
2.	Sulphur dioxide (SO ₂)	IS:11255(Part-2)	52.23	mg /Nm ³	600
3.	Nitrogen dioxide (NO ₂)	IS:11255(Part-7)	67.80	mg /Nm ³	300
4.	Mercury (as Hg)	APHA-AIR	<0.01	mg/l	0.03

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TEST CERTIFICATE

Test Report of	Report Code	Date of Issue
Stack Emission	ST-060321-01	15/03/2021

Issued To: M/s India Glycols Limited

A-1, Industrial Area, Bazpur Road, Kashipur (Uttarakhand)- 244713

SAMPLING & ANALYSIS DATA

Sample Drawn By	:	N.T.L.
Sample description	:	Stack Emission
Sampling Time	:	30 minutes
Sampling Location	:	CVL 30 T Boiler
Sampling Plan & Procedure	:	IS:11255
Analysis Duration	:	08/03/2021 to 12/03/2021
Stack Temperature (°C)	:	106
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)	:	11.5

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)	45.20	mg /Nm ³	50
2.	Sulphur dioxide (SO ₂)	IS:11255(Part-2)	68.83	mg /Nm ³	600
3.	Nitrogen dioxide (NO ₂)	IS:11255(Part-7)	85.12	mg /Nm ³	300
4.	Mercury (as Hg)	APHA-AIR	<0.01	mg/l	0.03

Notes:

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Mohi Shrivastava
 President
 N.T.L.
 Noida Testing Laboratories
 GT-20, Sector-117, Noida Gautam Budh Nagar - 201301

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TEST CERTIFICATE

Test Report of	Report Code	Date of Issue
Stack Emission	ST-060321-04	15/03/2021

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	:	40 minutes
Sampling Location	:	MEG Heater (B -110 A)
Sampling Plan & Procedure	:	IS:11255
Analysis Duration	:	08/03/2021 to 12/03/2021
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
Average Flow Rate (LPM)	:	16.2
Average Velocity of Emission (m/sec)	:	11.5

TEST RESULT

S. No.	Parameter	Test Method	Results	Units	Emission limits
1.	Particulate Matter (PM)	IS:11255(Part-1)	68.56	mg /Nm ³	50
2.	Sulphur dioxide (SO ₂)	IS:11255(Part-2)	35.12	mg /Nm ³	Limit not specified
3.	Nitrogen dioxide (NO ₂)	IS:11255(Part-7)	57.26	mg /Nm ³	Limit not specified

Notes:

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TEST CERTIFICATE

Test Report of	Report Code	Date of Issue
Scrubber Vent Emission	ST-160221-03	18/02/2021

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

SAMPLING & ANALYSIS DATA

Sample drawn on : 15/02/2021
 Sample Drawn By : NTL
 Sample description : Scrubber vent
 Sampling Time : 30 minutes
 Sampling Plan & Procedure : SOP/SE/09
 Analysis Duration : 16/02/2021 to 18/02/2021
 Stack Temperature (°C) : 43
 Source of Emission : **Scrubber**
 Location : HCL Scrubber – Bio EO Plant
 Operating Load : Normal
 Attached APCS : Scrubber Vent
 Height of Stack from ground level(feet) : 74.0
 Average Velocity of Flue Emission (m/s) : 8.3

TEST RESULTS

S.N.	Parameter	Test Method	Results	Units	Specification/ Limit (As Per CPCB)
1.	Acid Mist (HCl)	Vol. Method	2.1	mg/Nm ³	35
2.	VOC	APHA-AIR	BDL	mg/Nm ³	-
3.	Methane	APHA-AIR	ND	mg/Nm ³	-
4.	Sulphur Dioxide (SO ₂)	IS:11255(Part-2)	BDL	mg/Nm ³	-

Notes:

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TEST CERTIFICATE

Test Report of	Report Code	Date of Issue
Scrubber Vent Emission	ST-160221-04	18/02/2021

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

SAMPLING & ANALYSIS DATA

Sample drawn on : 15/02/2021
 Sample Drawn By : NTL
 Sample description : Scrubber vent
 Sampling Time : 30 minutes
 Sampling Plan & Procedure : SOP/SE/09
 Analysis Duration : 16/02/2021 to 18/02/2021
 Stack Temperature (°C) : 43
 Source of Emission : **Scrubber**
 Location : SO₂ Scrubber – Bio EO Plant
 Operating Load : Normal
 Attached APCS : Scrubber Vent
 Height of Stack from ground level(feet) : 74.0
 Average Velocity of Flue Emission (m/s) : 8.3

TEST RESULT

S.N.	Parameter	Test Method	Results	Units
1.	Acid Mist (HCl)	Vol. Method	1.1	mg/Nm ³
2.	VOC	APHA-AIR	BDL	mg/Nm ³
3.	Methane	APHA-AIR	ND	mg/Nm ³
4.	Sulphur Dioxide (SO ₂)	IS:11255(Part-2)	1.3	mg/Nm ³

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TEST CERTIFICATE

Test Report of	Report Code	Date of Issue
Scrubber Vent Emission	ST-160221-05	18/02/2021

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

SAMPLING & ANALYSIS DATA

Sample drawn on : 15/02/2021
Sample Drawn By : NTL
Sample description : Scrubber vent
Sampling Time : 30 minutes
Sampling Plan & Procedure : SOP/SE/09
Analysis Duration : 16/02/2021 to 18/02/2021
Stack Temperature (°C) : 43
Source of Emission : **Scrubber**
Location : EO Scrubber – Bio EO Plant
Operating Load : Normal
Attached APCS : Scrubber Vent
Height of Stack from ground level(feet) : 74.0
Average Velocity of Flue Emission (m/s) : 8.3

TEST RESULTS

S.N.	Parameter	Test Method	Results	Units	Specification/ Limit (As Per CPCB)
1.	Acid Mist (HCl)	Vol. Method	0.6	mg/Nm ³	35
2.	VOC	APHA-AIR	BDL	mg/Nm ³	-
3.	Methane	APHA-AIR	ND	mg/Nm ³	-
4.	Sulphur Dioxide (SO ₂)	IS:11255(Part-2)	BDL	mg/Nm ³	-

Notes:

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TEST CERTIFICATE

Test Report of	Report Code	Date of Issue
Ambient Air Quality Analysis	AAQ-060320-01	15/03/2021

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 : 06/03/2021
Sample Description : Ambient Air
Sampling Location : Bio Gas Plant – Behind Laboratory
Sampling Plan & Procedure : SOP-AAQ/08
Analysis Duration : 06/03/2021 to 12/03/2021
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	82.22	µg /m ³	100.0
2.	Particulate Matter (PM _{2.5})	CPCB Volume – 1 / Gravimetric	45.16	µg /m ³	60.0
3.	Sulphur Dioxide	IS:5182 Part-II	14.2	µg /m ³	80.0
4.	Nitrogen Dioxide	IS:5182 Part-VI	23.8	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
13.	Methane (as CH ₄)	APHA-AIR	0.026	PPM	-
14.	Volatile Organic Compounds (VOCs)	IS:5182 Part-XI	0.068	PPM	-

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TEST CERTIFICATE

Test Report of	Report Code	Date of Issue
Ambient Air Quality Analysis	AAQ-060320-02	15/03/2021

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 : 05/09/2020
 Sample Description : Ambient Air
 Sampling Location : **Coal Yard near Slop 2 Control Room**
 Sampling Plan & Procedure : SOP-AAQ/08
 Analysis Duration : 06/03/2021 to 12/03/2021
 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	92.23	µg /m ³	100.0
2.	Particulate Matter (PM _{2.5})	CPCB Volume – 1 / Gravimetric	48.86	µg /m ³	60.0
3.	Sulphur Dioxide	IS:5182 Part-II	12.55	µg /m ³	80.0
4.	Nitrogen Dioxide	IS:5182 Part-VI	26.70	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
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-060320-03	15/03/2021

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 : 05/09/2020
Sample Description : Ambient Air
Sampling Location : Fire Station
Sampling Plan & Procedure : SOP-AAQ/08
Analysis Duration : 06/03/2021 to 12/03/2021
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	74.12	µg /m ³	100.0
2.	Particulate Matter (PM _{2.5})	CPCB Volume - 1 / Gravimetric	38.45	µg /m ³	60.0
3.	Sulphur Dioxide	IS:5182 Part-II	8.68	µg /m ³	80.0
4.	Nitrogen Dioxide	IS:5182 Part-VI	14.21	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
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-060320-04	15/03/2021

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 : 05/09/2020
Sample Description : Ambient Air
Sampling Location : IGL Colony Near STP
Sampling Plan & Procedure : SOP-AAQ/08
Analysis Duration : 06/03/2021 to 12/03/2021
Average Flow Rate of SPM (m³/min.) : 1.07
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	75.60	µg /m ³	100.0
2.	Particulate Matter (PM _{2.5})	CPCB Volume - 1 / Gravimetric	38.26	µg /m ³	60.0
3.	Sulphur Dioxide	IS:5182 Part-II	8.05	µg /m ³	80.0
4.	Nitrogen Dioxide	IS:5182 Part-VI	15.22	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) 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-060320-05	15/03/2021

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 : 05/09/2020
Sample Description : Ambient Air
Sampling Location : Main Gate Near Security Office
Sampling Plan & Procedure : SOP-AAQ/08
Analysis Duration : 06/03/2021 to 12/03/2021
Average Flow Rate of SPM (m³/min.) : 1.06
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	85.36	µg /m ³	100.0
2.	Particulate Matter (PM _{2.5})	CPCB Volume – 1 / Gravimetric	42.50	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	16.78	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
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
Work Zone Air Quality Analysis	WZ-060321-014	15/03/2021

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

SAMPLING & ANALYSIS DATA

Sample Drawn On : 05/03/2021
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)	0.098	mg/m ³	15 as per OSHA
2.	Sulphur dioxide (SO ₂)	IS:5182 (P-2)	0.016	mg/m ³	5.0 as per factories act, 1948
3.	Nitrogen dioxide (NO ₂)	IS:5182 (P-6)	0.017	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	1.84	mg/m ³	7.0 as per factories act, 1948

OSHA-Occupational Safety & Health Administration.

Notes:

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TEST CERTIFICATE

Test Report of	Report Code	Date of Issue
Work Zone Air Quality Analysis	WZ-060321-012	15/03/2021

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

SAMPLING & ANALYSIS DATA

Sample Drawn On : 05/03/2021
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)	0.108	mg/m ³	15 as per OSHA
2.	Sulphur dioxide (SO ₂)	IS:5182 (P-2)	0.019	mg/m ³	5.0 as per factories act, 1948
3.	Nitrogen dioxide (NO ₂)	IS:5182 (P-6)	0.023	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	2.17	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-060321-013	15/03/2021

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

SAMPLING & ANALYSIS DATA

Sample Drawn On : 05/03/2021
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)	0.102	mg/m ³	15 as per OSHA
2.	Sulphur dioxide (SO ₂)	IS:5182 (P-2)	0.015	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	1.25	mg/m ³	7.0 as per factories act, 1948

OSHA-Occupational Safety & Health Administration.

Notes:

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TEST CERTIFICATE

Test Report of	Report Code	Date of Issue
Waste Water	WW-060321-020	15/03/2021

Issued To: M/s India Glycols Limited

A-1, Industrial Area, Bazpur Road, Kashipur (Uttarakhand)- 244713

SAMPLING & ANALYSIS DATA

Sample Drawn On : 06/03/2021
 Sample Drawn By : NTL
 Sample Description : ETP Outlet
 Sample Received On : 08/03/2021
 Sample Quantity/Packing detail : 2lt/Plastic Cane
 Analysis Duration : 08/03/2021 to 15/03/2021

TEST RESULTS

S.No	Parameter	Test Method	Results	Units	Limits as per E(P)Rule
1.	pH	USEPA-150.1	7.23	-	5.0 - 9.0
2.	Chemical Oxygen demand(as O ₂)	USEPA-410.4	88.5	mg/l	250.0
3.	Biological Oxygen demand(as O ₂)	USEPA-405.1	14.0	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	0.23	mg/l	5.0
6.	Nitrate (as NO ₃)	IS: 3025 (P- 34)	3.72	mg/l	10
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
Metal					
10.	Total Chromium (as Cr)	USEPA-6010c	BDL	mg/l	1.0
11.	Nickel (as Ni)	USEPA-6010c	BDL	mg/l	2.0
12.	Copper (as Cu)	USEPA-6010c	0.22	mg/l	2.0
13.	Zinc (as Zn)	USEPA-6010c	0.95	mg/l	5.0
14.	Total Arsenic (as As)	USEPA-200.7	BDL	mg/l	0.2
15.	Lead (as Pb)	USEPA-6010c	BDL	mg/l	0.1
16.	Hexavalent Chromium (as Cr ⁺⁶)	USEPA-218.6	BDL	mg/l	0.05
17.	Mercury (as Hg)	USEPA-6010c	BDL	mg/l	0.01
18.	Silver (as Ag)	USEPA-6010c	BDL	mg/l	No Limit Specified
19.	Bio Assay Test (%Survival of Fish 96 hrs%)	IS-6582:1972(R.A003)	100	mg/l	Should be 90 % Survival

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TEST CERTIFICATE

Test Report of	Report Code	Date of Issue
Ambient Noise	N-060321-01	15/03/2021

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 : 06/03/2021
 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)	70.8	dB(A)	Industrial Area	75	70
				Commercial Area	65	55
2.	EQUIVALENT NOISE LEVEL (10.0 PM TO 6.0 AM)	52.6	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	N-060321-02	15/03/2021

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 : 06/03/2021
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)	66.1	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	N-060321-03	15/03/2021

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 : 06/03/2021
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)	63.5	dB(A)	Industrial Area	75	70
				Commercial Area	65	55
2.	EQUIVALENT NOISE LEVEL (10.0 PM TO 6.0 AM)	58.8	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	N-060321-04	15/03/2021

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 : 06/03/2021
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) Leg		
				Category of Area/ Zone	Day Time	Night Time
1.	EQUIVALENT NOISE LEVEL (6.0 AM TO 10.0 PM)	61.3	dB(A)	Industrial Area	75	70
				Commercial Area	65	55
2.	EQUIVALENT NOISE LEVEL (10.0 PM TO 6.0 AM)	50.2	dB(A)	Residential Area	55	45
				Silence Zone	50	40

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TEST CERTIFICATE

Test Report of Ambient Noise	Report Code N-060321-05	Date of Issue 15/03/2021
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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 Received On : 06/03/2021
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)	63.5	dB(A)	Industrial Area	75	70
				Commercial Area	65	55
2.	EQUIVALENT NOISE LEVEL (10.0 PM TO 6.0 AM)	46.6	dB(A)	Residential Area	55	45
				Silence Zone	50	40

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TEST CERTIFICATE

Test Report of	Report Code	Date of Issue
Water Sample	W-060321-018	15/03/2021

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 : 06/03/2021
 Sample Quantity : 2.0 lit
 Sample packing Details : In Sealed Plastic Bottle & Glass Bottle
 Analysis Duration : 06/03/2021 to 14/03/2021
 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)	7.33	-	6.5 - 8.5	-
6.	Total dissolve solid (TDS)	IS-3025(P-16)	315	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)	38.60	mg/l	75	200
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)	18.20	mg/l	250	1000
9.	Copper (as Cu)	IS : 3025 (P-42)	<0.05	mg/l	0.05	1.5

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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
12.	Iron (as Fe)	IS: 3025(P-53)	0.062	mg/l	1.0	No Relaxation
13.	Magnesium (as mg)	IS: 3025 (P-46)	21.50	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)	2.48	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)	18.2	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)	196.0	mg/l	200	600
22.	Total Hardness (as CaCO ₃)	IS: 3025 (P- 21)	210.0	mg/l	200	600
23.	Zinc (as Zn)	IS: 3025 (P- 49)	<0.05	mg/l	6.0	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:

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. This test report will not be used for any publicity/legal purpose.
5. 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
Water Sample	W-060321-017	15/03/2021

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 : 06/03/2021
Sample Quantity : 2.0 lit
Sample packing Details : In Sealed Plastic Bottle & Glass Bottle
Analysis Duration : 06/03/2021 to 14/03/2021
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)	7.56	-	6.5 - 8.5	-
6.	Total dissolve solid (TDS)	IS-3025(P-16)	380	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)	56.60	mg/l	75	200
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)	21.23	mg/l	250	1000
9.	Copper (as Cu)	IS : 3025 (P-42)	<0.05	mg/l	0.05	1.5

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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
12.	Iron (as Fe)	IS: 3025(P-53)	0.078	mg/l	1.0	No Relaxation
13.	Magnesium (as mg)	IS: 3025 (P-46)	24.50	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)	4.60	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)	25.60	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)	212.0	mg/l	200	600
22.	Total Hardness (as CaCO ₃)	IS: 3025 (P- 21)	225.0	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

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