



INDIA GLYCOLS LIMITED, LABORATORY

(NABL ACCREDITED LABORATORY)

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

A-1, Industrial Area Bazpur Road, Kashipur

District - Udham Singh Nagar - 244713 (Uttarakhand)

Email: igllabksp@gmail.com

TEST REPORT

Test Report No. TR/AAQ/2019/12/06-001		Issue Date: 06.12.2019
Issued to:-	M/s India Glycols Limited A - 1, Industrial Area, Bazpur Road Kashipur - 244713, U. S. Nagar (Uttarakhand)	
Type of Sample:	Ambient Air	
Sampling Location:	Bio Gas Plant - Behind Laboratory	
Date of Sampling:	25.11.2019 to 26.11.2019	
Mode of Collection of Sample:	Sampling by Laboratory	
Packing, Marking & Seal:	Fliter Paper in Plastic Envelop, Absorbing Solution in Reagent Bottle.	
Sampling Protocol:	IS: 5182 (P-14)	
Sample Drawn by:	Mr. Deepak Sati & Team	
Date of Sample Receiving:	26.11.2019	
Time of Sampling:	24 Hrs (0930 Hrs to 0930 Hrs)	
Testing Protocol:	National Ambient Air Quality Standards (NAAQS) 2009	
Environmental Condition:	Sunny Day	
Analysis Duration:	26.11.2019 to 27.11.2019	

RESULTS

S.No	Test Parameters	Units	Results	NAAQS, 2009		Test Method
				Annual*	24 Hours**	
1.	Particulate Matter (PM ₁₀)	µg/m ³	83.40	Annual*	60	IS:5182 (23) 2006
				24 Hours**	100	
2.	Sulphur Dioxide (SO ₂)	µg/m ³	12.74	Annual*	50	IS :5182 (2) 2001
				24 Hours**	80	
3.	Nitrogen Oxides (as NO ₂)	µg/m ³	28.55	Annual*	40	IS :5182 (6) 2006
				24 Hours**	80	
4.	Particulate Matter (PM _{2.5})	µg/m ³	41.49	Annual*	40	US EPA 40 CFR (P-50)
				24 Hours**	60	
5.	Ammonia	µg/m ³	11.24	Annual*	100	APHA IIInd Ed. Method 801: 1977
				24 Hours**	400	
6.	Ozone (8 Hours)	µg/m ³	BDL	8 Hours*	100	IS :5182 (IX)-1974 R 2003
				1 Hour**	180	
7.	Carbon Monoxide (as CO) (1Hour) [#]	mg/m ³	ND	8 Hours*	02	Electrochemical Method
				1 Hour**	04	

*Annual Arithmetic mean of minimum 104 measurements in a year at a particular site taken twice a week 24 hourly at uniform interval.

**24 hourly 08 hourly or 1 hourly monitored values, as applicable shall be complied with 98% of the time in a year. 2% of the time, they may exceed the limits but not on two consecutive days of monitoring.

[#]Marked Parameter not in our NABL Scope.

ND- Not detected, BDL - Below Detection Limit (Detection Limit - 10.0 µg/m³)

End of Report

Rahul Kumar
(Rahul Kumar)
(Checked by)



Note:

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A-1, Industrial Area Bazpur Road, Kashipur

District - Udham Singh Nagar - 244713 (Uttarakhand)

Email: igllabksp@gmail.com

TEST REPORT

Test Report No. TR/AAQ/2019/12/06-002		Issue Date: 06.12.2019
Issued to:-	M/s India Glycols Limited A - 1, Industrial Area, Bazpur Road Kashipur - 244713, U. S. Nagar (Uttarakhand)	
Type of Sample:	Ambient Air	
Sampling Location:	Main Gate Near Security Office	
Date of Sampling:	26.11.2019 to 27.11.2019	
Mode of Collection of Sample:	Sampling by Laboratory	
Packing, Marking & Seal:	Fliter Paper in Plastic Envelop, Absorbing Solution in Reagent Bottle.	
Sampling Protocol:	IS: 5182 (P-14)	
Sample Drawn by:	Mr. Deepak Sati & Team	
Date of Sample Receiving:	27.11.2019	
Time of Sampling:	24 Hrs (1100 Hrs to 1100 Hrs)	
Testing Protocol:	National Ambient Air Quality Standards (NAAQS) 2009	
Environmental Condition:	Sunny Day	
Analysis Duration:	27.11.2019 to 28.11.2019	

RESULTS

S.No	Test Parameters	Units	Results	NAAQS, 2009		Test Method
				Annual*	24 Hours**	
1.	Particulate Matter (PM ₁₀)	µg/m ³	80.31	Annual*	60	IS:5182 (23) 2006
				24 Hours**	100	
2.	Sulphur Dioxide (SO ₂)	µg/m ³	8.97	Annual*	50	IS :5182 (2) 2001
				24 Hours**	80	
3.	Nitrogen Oxides (as NO ₂)	µg/m ³	14.28	Annual*	40	IS :5182 (6) 2006
				24 Hours**	80	
4.	Particulate Matter (PM _{2.5})	µg/m ³	38.93	Annual*	40	US EPA 40 CFR (P-50)
				24 Hours**	60	
5.	Ammonia	µg/m ³	BDL	Annual*	100	APHA IInd Ed. Method 801: 1977
				24 Hours**	400	
6.	Ozone (8 Hours)	µg/m ³	BDL	8 Hours*	100	IS :5182 (IX)-1974 R 2003
				1 Hour**	180	
7.	Carbon Monoxide (as CO) (1Hour) [#]	mg/m ³	ND	8 Hours*	02	Electrochemical Method
				1 Hour**	04	

* Annual Arithmetic mean of minimum 104 measurements in a year at a particular site taken twice a week 24 hourly at uniform interval.

**24 hourly 08 hourly or 1 hourly monitored values, as applicable shall be complied with 98% of the time in a year. 2% of the time, they may exceed the limits but not on two consecutive days of monitoring.

[#]Marked Parameter is not in our NABL Scope.

BDL- Below Detection Limit (Detection Limit : Ozone - 10.0 µg/m³, Ammonia -10.0 µg/m³).

ND- Not detected

End of Report

Rahul Kumar
(Rahul Kumar)
(Checked by)



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District - Udham Singh Nagar - 244713 (Uttarakhand)

Email: igllabksp@gmail.com

TEST REPORT

Test Report No. TR/AAQ/2019/12/06-003		Issue Date: 06.12.2019
Issued to:	M/s India Glycols Limited A - 1, Industrial Area, Bazpur Road Kashipur - 244713, U. S. Nagar (Uttarakhand)	
Type of Sample:	Ambient Air	
Sampling Location:	Fire Station	
Date of Sampling:	27.11.2019 to 28.11.2019	
Mode of Collection of Sample:	Sampling by Laboratory	
Packing, Marking & Seal:	Fliter Paper in Plastic Envelop, Absorbing Solution in Reagent Bottle.	
Sampling Protocol:	IS: 5182 (P-14)	
Sample Drawn by:	Mr. Deepak Sati & Team	
Date of Sample Receiving:	28.11.2019	
Time of Sampling:	24 Hrs (1215 Hrs to 1215 Hrs)	
Testing Protocol:	National Ambient Air Quality Standards (NAAQS) 2009	
Environmental Condition:	Sunny Day	
Analysis Duration:	28.11.2019 to 29.11.2019	

RESULTS

S.No	Test Parameters	Units	Results	NAAQS, 2019		Test Method
				Annual*	24 Hours**	
1.	Particulate Matter (PM ₁₀)	µg/m ³	75.47	Annual*	60	IS:5182 (23) 2006
				24 Hours**	100	
2.	Sulphur Dioxide (SO ₂)	µg/m ³	8.99	Annual*	50	IS :5182 (2) 2001
				24 Hours**	80	
3.	Nitrogen Oxides (as NO ₂)	µg/m ³	12.90	Annual*	40	IS :5182 (6) 2006
				24 Hours**	80	
4.	Particulate Matter (PM _{2.5})	µg/m ³	32.91	Annual*	40	US EPA 40 CFR (P-50)
				24 Hours**	60	
5.	Ammonia	µg/m ³	BDL	Annual*	100	APHA IInd Ed. Method 801: 1977
				24 Hours**	400	
6.	Ozone (8 Hours)	µg/m ³	BDL	8 Hours*	100	IS :5182 (IX)-1974 R 2003
				1 Hour**	180	
7.	Carbon Monoxide (as CO) (1Hour) [#]	mg/m ³	ND	8 Hours*	02	Electrochemical Method
				1 Hour**	04	

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[#] Marked Parameter is not in our NABL Scope.

BDL- Below Detection Limit (Detection Limit : Ozone - 10.0 µg/m³, Ammonia -10.0 µg/m³). ND- Not detected

End of Report

Ruhay
(Ruhay kumar)
(Checked by)

(Authorized Signatory)
Signature
Ruhay kumar
Kashipur (Uttarakhand)

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District - Udham Singh Nagar - 244713 (Uttarakhand)
Email: igllabksp@gmail.com

TEST REPORT

Test Report No. TR/AAQ/2019/12/06-004		Issue Date: 06.12.2019
Issued to:	M/s India Glycols Limited A - 1 Industrial Area, Bazpur Road Kashipur - 244713, U. S. Nagar (Uttarakhand)	
Type of Sample:	Ambient Air	
Sampling Location:	Coal Yard near Slop 2 Control Room	
Date of Sampling:	28.11.2019 to 29.11.2019	
Mode of Collection of Sample:	Sampling by Laboratory	
Packing, Marking & Seal:	Fliter Paper in Plastic Envelop, Absorbing Solution in Reagent Bottle.	
Sampling Protocol:	IS: 5182 (P-14)	
Sample Drawn by:	Mr. Satveer Yadav & Team	
Date of Sample Receiving:	29.11.2019	
Time of Sampling:	24 Hrs (1400 Hrs to 1400 Hrs)	
Testing Protocol:	National Ambient Air Quality Standards (NAAQS) 2009	
Environmental Condition:	Sunny Day	
Analysis Duration:	29.11.2019 to 30.11.2019	

RESULTS

S.No	Test Parameters	Units	Results	NAAQS, 2009		Test Method
				Annual*	24 Hours**	
1.	Particulate Matter (PM ₁₀)	µg/m ³	91.45	Annual*	60	IS:5182 (23) 2006
				24 Hours**	100	
2.	Sulphur Dioxide (SO ₂)	µg/m ³	14.01	Annual*	50	IS :5182 (2) 2001
				24 Hours**	80	
3.	Nitrogen Oxides (as NO ₂)	µg/m ³	30.05	Annual*	40	IS :5182 (6) 2006
				24 Hours**	80	
4.	Particulate Matter (PM _{2.5})	µg/m ³	40.20	Annual*	40	US EPA 40 CFR (P-50)
				24 Hours**	60	
5.	Ammonia	µg/m ³	BDL	Annual*	100	APHA IInd Ed. Method 801: 1977
				24 Hours**	400	
6.	Ozone (8 Hours)	µg/m ³	BDL	8 Hours*	100	IS :5182 (IX)-1974 R 2003
				1 Hour**	180	
7.	Carbon Monoxide (as CO) (1Hour) [#]	mg/m ³	ND	8 Hours*	02	Electrochemical Method
				1 Hour**	04	

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[#]Marked Parameter is not in our NABL Scope.

ND- Not detected, BDL - Below Detection Limit (Detection Limit - Ozone: 10.0 µg/m³, Ammonia: 10.0 µg/m³)

End of Report

Rohay
(Rohay Kumar)
(Checked by)



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TEST REPORT

Test Report No. TR/AAQ/2019/12/06-005		Issue Date: 06.12.2019	
Issued to:	M/s India Glycols Limited A - ,1 Industrial Area, Bazpur Road Kashipur - 244713, U. S. Nagar (Uttarakhand)		
Type of Sample:	Ambient Air		
Sampling Location:	IGL Colony Near STP		
Date of Sampling:	29.11.2019 to 30.11.2019		
Mode of Collection of Sample:	Sampling by Laboratory		
Packing, Marking & Seal:	Fliter Paper in Plastic Envelop, Absorbing Solution in Reagent Bottle.		
Sampling Protocol:	IS: 5182 (P-14)		
Sample Drawn by:	Mr. Satveer Yadav & Team		
Date of Sample Receiving:	30.11.2019		
Time of Sampling:	24 Hrs (1600 Hrs to 1600 Hrs)		
Testing Protocol:	National Ambient Air Quality Standards (NAAQS) 2009		
Environmental Condition:	Sunny Day		
Analysis Duration:	30.11.2019 to 01.12.2019		

RESULTS

S.No	Test Parameters	Units	Results	NAAQS		Test Method
				Annual*	24 Hours**	
1.	Particulate Matter (PM ₁₀)	µg/m ³	79.75	60	100	IS:5182 (23) 2006
2.	Sulphur Dioxide (SO ₂)	µg/m ³	9.14	50	80	IS :5182 (2) 2001
3.	Nitrogen Oxides (as NO ₂)	µg/m ³	10.39	40	80	IS :5182 (6) 2006
4.	Particulate Matter (PM _{2.5})	µg/m ³	35.01	40	60	US EPA 40 CFR (P-50)
5.	Ammonia	µg/m ³	BDL	100	400	APHA IInd Ed. Method 801: 1977
6.	Ozone (8 Hours)	µg/m ³	BDL	100	180	IS :5182 (IX)-1974 R 2003
7.	Carbon Monoxide (as CO) (1Hour) [#]	mg/m ³	ND	02	04	Electrochemical Method

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**24 hourly 08 hourly or 1 hourly monitored values, as applicable shall be complied with 98% of the time in a year. 2% of the time, they may exceed the limits but not on two consecutive days of monitoring.

[#]Marked Parameter is not in our NABL Scope.

ND- Not detected, BDL - Below Detection Limit (Detection Limit - Ozone: 10.0 µg/m³, Ammonia: 10.0 µg/m³)

End of Report

Rahul Kumar
(Rahul Kumar)
(Checked by)



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District - Udham Singh Nagar - 244713 (Uttarakhand)
Email: igllabksp@gmail.com

TEST REPORT

Test Report No: TR/SM/2019/12/06-004	:	Issued Date: 06/12/2019
Issued to	:	M/s India Glycols Limited A - 1 Industrial Area, Bazpur Road Kashipur - 244713
Sample Description	:	Stack Emission
Sampling Location	:	MEG Heater (B-110)
Date of Sampling	:	20/11/2019
Capacity (TPH/ KVA/ Kg/Hr)	:	--
Type of Stack (Metal/RCC/Brick)	:	Metal
Shape of Stack (Circular/Rectangular)	:	Circular
Diameter of Stack (Meter)	:	0.838
Height of Stack from Ground Level (M)	:	30
Type of Fuel used (HSD/FO/Coal etc.)	:	FO + Biogas
Fuel consumed per Hour	:	0.25 +200
Ambient Temperature (°C)	:	26
Stack Temperature (°C)	:	122
Average velocity of emission (m/sec)	:	10.12
Average Flow Rate (LPM)	:	15
Duration of Sampling (min.)	:	41 (1500 Hrs. to 1541 Hrs.)
Sampling Protocol	:	IS:11255
Sampling Packing & Marking	:	Sealed Zip Poly Bag & plastic Bottle
Sample Drawn By	:	Deepak Sati & Team
Environmental Condition	:	Sunny Day
Date of Receipt of Sample	:	20/11/2019
Analysis Duration	:	20/11/2019 to 21/11/2019

RESULTS

S.No	Test Parameter	Unit	Results	Emission Limits	Test Method
1.	Particulate Matter (PM)	mg/Nm ³	52.67	150.0	IS: 11255 (P-1) 1985
2.	Sulphur Dioxide (SO ₂)	mg/Nm ³	36.76	NA	IS: 11255 (P-2) 1985
3.	Nitrogen oxides (as NO _x)	mg/Nm ³	59.33	NA	IS: 11255 (P-7) 2005

End of Report

Deepak Sati
(Rachukumar)
(Checked By)



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TEST REPORT

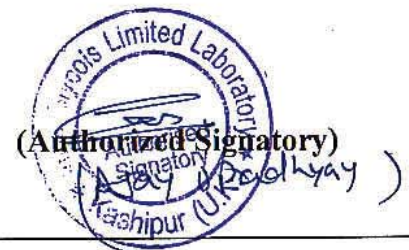
Test Report No: TR/SM/2019/12/06-005	:	Issued Date: 06/12/2019
Issued to	:	M/s India Glycols Limited A - 1 Industrial Area, Bazpur Road Kashipur - 244713
Sample Description	:	Stack Emission
Sampling Location	:	MEG Heater (B-110 A)
Date of Sampling	:	21/11/2019
Capacity (TPH/ KVA/ Kg/Hr)	:	--
Type of Stack (Metal/RCC/Brick)	:	Metal
Shape of Stack (Circular/Rectangular)	:	Circular
Diameter of Stack (Meter)	:	0.850
Height of Stack from Ground Level (M)	:	51
Type of Fuel used (HSD/FO/Coal etc.)	:	FO + Biogas
Fuel consumed per Hour	:	0.25 +200
Ambient Temperature (°C)	:	24
Stack Temperature (°C)	:	120
Average velocity of emission (m/sec)	:	10.42
Average Flow Rate (LPM)	:	15
Duration of Sampling (min.)	:	40 (1100 Hrs. to 1140 Hrs.)
Sampling Protocol	:	IS:11255
Sampling Packing & Marking	:	Sealed Zip Poly Bag & plastic Bottle
Sample Drawn By	:	Deepak Sati & Team
Environmental Condition	:	Sunny Day
Date of Receipt of Sample	:	21/11/2019
Analysis Duration	:	21/11/2019 to 22/11/2019

RESULTS

S.No	Test Parameter	Unit	Results	Emission Limits	Test Method
1.	Particulate Matter (PM)	mg/Nm ³	61.47	150.0	IS: 11255 (P-1) 1985
2.	Sulphur Dioxide (SO ₂)	mg/Nm ³	39.95	NA	IS: 11255 (P-2) 1985
3.	Nitrogen oxides (as NO _x)	mg/Nm ³	67.88	NA	IS: 11255 (P-7) 2005

End of Report

Rahul Kumar
(Rahul Kumar)
(Checked By)



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Email: igllabksp@gmail.com

TEST REPORT

Test Report No: TR/SM/2019/12/06-006	:	Issued Date: 06/12/2019
Issued to	:	M/s India Glycols Limited A - 1 Industrial Area, Bazpur Road Kashipur - 244713
Sample Description	:	Stack Emission
Sampling Location	:	MEG Heater (B-110 B)
Date of Sampling	:	21/11/2019
Capacity (TPH/ KVA/ Kg/Hr)	:	--
Type of Stack (Metal/RCC/Brick)	:	Metal
Shape of Stack (Circular/Rectangular)	:	Circular
Diameter of Stack (Meter)	:	0.850
Height of Stack from Ground Level (M)	:	51
Type of Fuel used (HSD/FO/Coal etc.)	:	FO + Biogas
Fuel consumed per Hour	:	0.25 +200
Ambient Temperature (°C)	:	25
Stack Temperature (°C)	:	118
Average velocity of emission (m/sec)	:	10.99
Average Flow Rate (LPM)	:	16
Duration of Sampling (min.)	:	38(1430 Hrs. to 1508 Hrs.)
Sampling Protocol	:	IS:11255
Sampling Packing & Marking	:	Sealed Zip Poly Bag & plastic Bottle
Sample Drawn By	:	Deepak Sati & Team
Environmental Condition	:	Sunny Day
Date of Receipt of Sample	:	21/11/2019
Analysis Duration	:	21/11/2019 to 22/11/2019

RESULTS

S.No	Test Parameter	Unit	Results	Emission Limits	Test Method
1.	Particulate Matter (PM)	mg/Nm ³	70.49	150.0	IS: 11255 (P-1) 1985
2.	Sulphur Dioxide (SO ₂)	mg/Nm ³	35.02	NA	IS: 11255 (P-2) 1985
3.	Nitrogen oxides (as NO _x)	mg/Nm ³	67.97	NA	IS: 11255 (P-7) 2005

End of Report

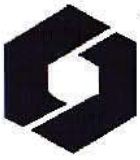
Rahul Kumar
(Rahul Kumar)
(Checked By)



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District - Udham Singh Nagar - 244713 (Uttarakhand)
Email: igllabksp@gmail.com

TEST REPORT

Test Report No: TR/SM/2019/12/06-007	:	Issued Date: 06/12/2019
Issued to	:	M/s India Glycols Limited A - 1 Industrial Area, Bazpur Road Kashipur - 244713
Sample Description	:	Stack Emission
Sampling Location	:	TBW Boiler
Date of Sampling	:	22/11/2019
Capacity (TPH/ KVA/ Kg/Hr)	:	45.0 TPH
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)	:	68
Type of Fuel used (HSD/FO/Coal etc.)	:	Coal
Fuel consumed per Hour	:	--
Ambient Temperature (°C)	:	24
Stack Temperature (°C)	:	115
Average velocity of emission (m/sec)	:	10.76
Average Flow Rate (LPM)	:	16
Duration of Sampling (min.)	:	38 (1000 Hrs. to 1038 Hrs.)
Sampling Protocol	:	IS:11255
Sampling Packing & Marking	:	Sealed Zip Poly Bag & plastic Bottle
Sample Drawn By	:	Deepak Sati & Team
Environmental Condition	:	Sunny Day
Date of Receipt of Sample	:	22/11/2019
Analysis Duration	:	22/11/2019 to 23/11/2019

RESULTS

S.No	Test Parameter	Unit	Results	Emission Limits	Test Method
1.	Particulate Matter (PM) ₁₀ @ 12% CO ₂ Correction	mg/Nm ³	87.65	150.0	IS: 11255 (P-1) 1985
2.	Sulphur Dioxide (SO ₂)	mg/Nm ³	37.04	NA	IS: 11255 (P-2) 1985
3.	Nitrogen oxides (as NO _x)	mg/Nm ³	63.04	NA	IS: 11255 (P-7) 2005

End of Report

Rahul Kumar
(Rahul Kumar)
(Checked By)



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INDIA GLYCOLS LIMITED, LABORATORY



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

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

TEST REPORT

Test Report No: TR/SM/2019/12/06-008	: Issued Date: 06/12/2019
Issued to	: M/s India Glycols Limited A - 1 Industrial Area, Bazpur Road Kashipur - 244713
Sample Description	: Stack Emission
Sampling Location	: CVL 20 T Boiler
Date of Sampling	: 22/11/2019
Capacity (TPH/ KVA/ Kg/Hr)	: 20 TPH
Type of Stack (Metal/RCC/Brick)	: Metal
Shape of Stack (Circular/Rectangular)	: Circular
Diameter of Stack (Meter)	: 1.47
Height of Stack from Ground Level (M)	: 45
Type of Fuel used (HSD/FO/Coal etc.)	: Coal
Fuel consumed per Hour	: --
Ambient Temperature (°C)	: 23
Stack Temperature (°C)	: 110
Average velocity of emission (m/sec)	: 10.77
Average Flow Rate (LPM)	: 16
Duration of Sampling (min.)	: 38 (1610 Hrs. to 1648 Hrs.)
Sampling Protocol	: IS:11255
Sampling Packing & Marking	: Sealed Zip Poly Bag & plastic Bottle
Sample Drawn By	: Deepak Sati & Team
Environmental Condition	: Sunny Day
Date of Receipt of Sample	: 22/11/2019
Analysis Duration	: 22/11/2019 to 23/11/2019

RESULTS

S.No	Test Parameter	Unit	Results	Emission Limits	Test Method
1.	Particulate Matter (PM)@ 12% CO ₂ Correction	mg/Nm ³	78.14	150.0	IS: 11255 (P-1) 1985
2.	Sulphur Dioxide (SO ₂)	mg/Nm ³	59.81	NA	IS: 11255 (P-2) 1985
3.	Nitrogen oxides (as NO _x)	mg/Nm ³	60.12	NA	IS: 11255 (P-7) 2005

End of Report

Rahul Kumar
(Rahul Kumar)
(Checked By)



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District - Udham Singh Nagar - 244713 (Uttarakhand)
Email: igllabksp@gmail.com

TEST REPORT

Test Report No: TR/SM/2019/12/06-009	: Issued Date: 06/12/2019
Issued to	: M/s India Glycols Limited A - 1 Industrial Area, Bazpur Road Kashipur - 244713
Sample Description	: Stack Emission
Sampling Location	: CVL 30 T Boiler
Date of Sampling	: 23/11/2019
Capacity (TPH/ KVA/ Kg/Hr)	: 30 TPH
Type of Stack (Metal/RCC/Brick)	: Metal
Shape of Stack (Circular/Rectangular)	: Circular
Diameter of Stack (Meter)	: 3.0
Height of Stack from Ground Level (M)	: 45
Type of Fuel used (HSD/FO/Coal etc.)	: Coal
Fuel consumed per Hour	: --
Ambient Temperature (°C)	: 25
Stack Temperature (°C)	: 118
Average velocity of emission (m/sec)	: 10.36
Average Flow Rate (LPM)	: 15
Duration of Sampling (min.)	: 40 (1032 Hrs. to 1112 Hrs.)
Sampling Protocol	: IS:11255
Sampling Packing & Marking	: Sealed Zip Poly Bag & plastic Bottle
Sample Drawn By	: Deepak Sati & Team
Environmental Condition	: Sunny Day
Date of Receipt of Sample	: 23/11/2019
Analysis Duration	: 23/11/2019 to 24/11/2019

RESULTS

S.No	Test Parameter	Unit	Results	Emission Limits	Test Method
1.	Particulate Matter (PM)@ 12% CO ₂ Correction	mg/Nm ³	89.05	150.0	IS: 11255 (P-1) 1985
2.	Sulphur Dioxide (SO ₂)	mg/Nm ³	61.14	NA	IS: 11255 (P-2) 1985
3.	Nitrogen oxides (as NO _x)	mg/Nm ³	69.07	NA	IS: 11255 (P-7) 2005

End of Report

Rahul Kumar
(Rahul Kumar)
(Checked By)



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Email: igllabksp@gmail.com

TEST REPORT

Test Report No: TR/SM/2019/12/06-010	:	Issued Date: 06/12/2019
Issued to	:	M/s India Glycols Limited A - 1 Industrial Area, Bazpur Road Kashipur - 244713
Sample Description	:	Stack Emission
Sampling Location	:	IJT-80T Boiler
Date of Sampling	:	23/11/2019
Capacity (TPH/ KVA/ Kg/Hr)	:	80 TPH
Type of Stack (Metal/RCC/Brick)	:	RCC
Shape of Stack (Circular/Rectangular)	:	Circular
Diameter of Stack (Meter)	:	1.5
Height of Stack from Ground Level (M)	:	80
Type of Fuel used (HSD/FO/Coal etc.)	:	Coal
Fuel consumed per Hour	:	--
Ambient Temperature (°C)	:	25
Stack Temperature (°C)	:	108
Average velocity of emission (m/sec)	:	10.29
Average Flow Rate (LPM)	:	15
Duration of Sampling (min.)	:	39 (1410 Hrs. to 1449 Hrs.)
Sampling Protocol	:	IS:11255
Sampling Packing & Marking	:	Sealed Zip Poly Bag & plastic Bottle
Sample Drawn By	:	Deepak Sati & Team
Environmental Condition	:	Sunny Day
Date of Receipt of Sample	:	23/11/2019
Analysis Duration	:	23/11/2019 to 24/11/2019

RESULTS

S.No	Test Parameter	Unit	Results	Emission Limits	Test Method
1.	Particulate Matter (PM) ₁₀ @ 12% CO ₂ Correction	mg/Nm ³	85.76	150.0	IS: 11255 (P-1) 1985
2.	Sulphur Dioxide (SO ₂)	mg/Nm ³	49.27	NA	IS: 11255 (P-2) 1985
3.	Nitrogen oxides (as NO _x)	mg/Nm ³	54.37	NA	IS: 11255 (P-7) 2005

End of Report

Rahul Kumar
(Rahul Kumar)
(Checked By)



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Email: igllabksp@gmail.com

TEST REPORT

Test Report No: TR/SM/2019/12/06-011	:	Issued Date: 06/12/2019
Issued to	:	M/s India Glycols Limited A - 1 Industrial Area, Bazpur Road Kashipur - 244713
Sample Description	:	Stack Emission
Sampling Location	:	Slop Boiler -1
Date of Sampling	:	26/11/2019
Capacity (TPH/ KVA/ Kg/Hr)	:	50.0 TPH
Type of Stack (Metal/RCC/Brick)	:	RCC
Shape of Stack (Circular/Rectangular)	:	Circular
Diameter of Stack (Meter)	:	2.5
Height of Stack from Ground Level (M)	:	100
Type of Fuel used (HSD/FO/Coal etc.)	:	Coal+ Slop
Fuel consumed per Hour	:	--
Ambient Temperature (°C)	:	26
Stack Temperature (°C)	:	143
Average velocity of emission (m/sec)	:	11.00
Average Flow Rate (LPM)	:	15
Duration of Sampling (min.)	:	40 (1030 Hrs. to 1110 Hrs.)
Sampling Protocol	:	IS:11255
Sampling Packing & Marking	:	Sealed Zip Poly Bag & plastic Bottle
Sample Drawn By	:	Deepak Sati & Team
Environmental Condition	:	Sunny Day
Date of Receipt of Sample	:	26/11/2019
Analysis Duration	:	26/11/2019 to 27/11/2019

RESULTS

S.No	Test Parameter	Unit	Results	Emission Limits	Test Method
1.	Particulate Matter (PM) ₁₀ @ 12% CO ₂ Correction	mg/Nm ³	54.23	150.0	IS: 11255 (P-1) 1985
2.	Sulphur Dioxide (SO ₂)	mg/Nm ³	54.68	NA	IS: 11255 (P-2) 1985
3.	Nitrogen oxides (as NO _x)	mg/Nm ³	63.63	NA	IS: 11255 (P-7) 2005

End of Report

Rahul
(Rahul Kumar)
(Checked By)



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Email: igllabksp@gmail.com

TEST REPORT

Test Report No: TR/SM/2019/12/06-012	:	Issued Date: 06/12/2019
Issued to	:	M/s India Glycols Limited A - 1 Industrial Area, Bazpur Road Kashipur - 244713
Sample Description	:	Stack Emission
Sampling Location	:	Slop Boiler -2
Date of Sampling	:	26/11/2019
Capacity (TPH/ KVA/ Kg/Hr)	:	50.0TPH
Type of Stack (Metal/RCC/Brick)	:	RCC
Shape of Stack (Circular/Rectangular)	:	Circular
Diameter of Stack (Meter)	:	2.5
Height of Stack from Ground Level (M)	:	100
Type of Fuel used (HSD/FO/Coal etc.)	:	Coal+ Slop
Fuel consumed per Hour	:	--
Ambient Temperature (°C)	:	25
Stack Temperature (°C)	:	138
Average velocity of emission (m/sec)	:	10.96
Average Flow Rate (LPM)	:	15
Duration of Sampling (min.)	:	40 (1510 Hrs. to 1550 Hrs.)
Sampling Protocol	:	IS:11255
Sampling Packing & Marking	:	Sealed Zip Poly Bag & plastic Bottle
Sample Drawn By	:	Deepak Sati & Team
Environmental Condition	:	Sunny Day
Date of Receipt of Sample	:	26/11/2019
Analysis Duration	:	26/11/2019 to 27/11/2019

RESULTS

S.No	Test Parameter	Unit	Results	Emission Limits	Test Method
1.	Particulate Matter (PM)@ 12% CO ₂ Correction	mg/Nm ³	63.93	150.0	IS: 11255 (P-1) 1985
2.	Sulphur Dioxide (SO ₂)	mg/Nm ³	48.16	NA	IS: 11255 (P-2) 1985
3.	Nitrogen oxides (as NO _x)	mg/Nm ³	63.26	NA	IS: 11255 (P-7) 2005

End of Report

Rahul
(Rahul Kumar)
(Checked By)



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Email: igllabksp@gmail.com

TEST REPORT

Test Report No: TR/SM/2019/12/06-013	:	Issued Date: 06/12/2019
Issued to	:	M/s India Glycols Limited A - 1 Industrial Area, Bazpur Road Kashipur - 244713
Sample Description	:	Stack Emission
Sampling Location	:	Stack of Boiler (Bottling Plant)
Date of Sampling	:	27/11/2019
Capacity (TPH/ KVA/ Kg/Hr)	:	850 kg/hr
Type of Stack (Metal/RCC/Brick)	:	Metal
Shape of Stack (Circular/Rectangular)	:	Circular
Diameter of Stack (Meter)	:	0.35
Height of Stack from Ground Level (M)	:	21
Type of Fuel used (HSD/FO/Coal etc.)	:	HSD
Fuel consumed per Hour	:	52 kg/hr
Ambient Temperature (°C)	:	24
Stack Temperature (°C)	:	110
Average velocity of emission (m/sec)	:	11.24
Average Flow Rate (LPM)	:	17
Duration of Sampling (min.)	:	36 (1120 Hrs. to 1156 Hrs.)
Sampling Protocol	:	IS:11255
Sampling Packing & Marking	:	Sealed Zip Poly Bag & plastic Bottle
Sample Drawn By	:	Deepak Sati & Team
Environmental Condition	:	Sunny Day
Date of Receipt of Sample	:	27/11/2019
Analysis Duration	:	27/11/2019 to 28/11/2019

RESULTS

S. No	Test Parameter	Unit	Results	Emission Limits	Test Method
1.	Particulate Matter (PM)@ 12% CO ₂ Correction	mg/Nm ³	104.25	1200	IS: 11255 (P-1) 1985
2.	Sulphur Dioxide (SO ₂)	mg/Nm ³	7.11	--	IS: 11255 (P-2) 1985
3.	Nitrogen oxides (as NO _x)	mg/Nm ³	31.42	--	IS: 11255 (P-7) 2005

End of Report

(Rahul Kumar)
(Checked By)



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District - Udham Singh Nagar - 244713 (Uttarakhand)
Email: igllabksp@gmail.com


TEST REPORT

Test Report No: TR/SM/2019/12/06-001	:	Issued Date: 06/12/2019
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	:	06/11/2019
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)	:	2.0
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)	:	24
Stack Temperature (°C)	:	112
Average velocity of emission (m/sec)	:	11.25
Average Flow Rate (LPM)	:	17
Duration of Sampling (min.)	:	36 (0905 Hrs. to 0941Hrs.)
Sampling Protocol	:	IS:11255
Sampling Packing & Marking	:	Sealed Zip Poly Bag & plastic Bottle
Sample Drawn By	:	Deepak Sati & Team
Environmental Condition	:	Sunny Day
Date of Receipt of Sample	:	06/11/2019
Analysis Duration	:	06/11/2019 to 07/11/2019

RESULTS

S.No	Test Parameter	Unit	Results	Emission Limits	Test Method
1.	Particulate Matter (PM) @ 15% O ₂ correction	mg/Nm ³	78.95	150.0	IS: 11255 (P-1) 1985
2.	Sulphur Dioxide (SO ₂)	mg/Nm ³	49.54	--	IS: 11255 (P-2) 1985
3.	Nitrogen oxides (as NO _x)	ppmv	31.72	1100	IS: 11255 (P-7) 2005

End of Report


(Rahul Kumar)
(Checked By)



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District - Udham Singh Nagar - 244713 (Uttarakhand)
Email: igllabksp@gmail.com

TEST REPORT

Test Report No: TR/SM/2019/12/06-002	:	Issued Date: 06/12/2019
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	:	26/11/2019
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)	:	25
Stack Temperature (°C)	:	120
Average velocity of emission (m/sec)	:	11.06
Average Flow Rate (LPM)	:	16.0
Duration of Sampling (min.)	:	38.0 (1605 to 1643 Hrs.)
Sampling Protocol	:	IS:11255
Sampling Packing & Marking	:	Sealed Zip Poly Bag & plastic Bottle
Sample Drawn By	:	Deepak Sati & Team
Environmental Condition	:	Sunny Day
Date of Receipt of Sample	:	26/11/2019
Analysis Duration	:	26/11/2019 to 27/11/2019

RESULTS

S.No	Test Parameter	Unit	Results	Emission Limits	Test Method
1.	Particulate Matter (PM) @ 15% O ₂ correction	mg/Nm ³	77.34	150.0	IS: 11255 (P-1) 1985
2.	Sulphur Dioxide (SO ₂)	mg/Nm ³	58.83	--	IS: 11255 (P-2) 1985
3.	Nitrogen oxides (as NO _x)	ppmv	36.51	1100	IS: 11255 (P-7) 2005

End of Report

Dhuhay

(Rahul Kumar)
(Checked By)



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District - Udham Singh Nagar - 244713 (Uttarakhand)
Email: igllabksp@gmail.com

TEST REPORT

Test Report No: TR/SM/2019/12/06-003	:	Issued Date: 06/12/2019
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	:	26/11/2019
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)	:	24
Stack Temperature (°C)	:	117
Average velocity of emission (m/sec)	:	11.20
Average Flow Rate (LPM)	:	16
Duration of Sampling (min.)	:	37 (1635 to 1712 Hrs.)
Sampling Protocol	:	IS:11255
Sampling Packing & Marking	:	Sealed Zip Poly Bag & plastic Bottle
Sample Drawn By	:	Deepak Sati & Team
Environmental Condition	:	Sunny Day
Date of Receipt of Sample	:	26/11/2019
Analysis Duration	:	26/11/2019 to 27/11/2019

RESULTS

S.No	Test Parameter	Unit	Results	Emission Limits	Test Method
1.	Particulate Matter (PM) @ 15% O ₂ correction	mg/Nm ³	64.65	150.0	IS: 11255 (P-1) 1985
2.	Sulphur Dioxide (SO ₂)	mg/Nm ³	51.17	--	IS: 11255 (P-2) 1985
3.	Nitrogen oxides (as NO _x)	ppmv	38.48	1100	IS: 11255 (P-7) 2005

End of Report

Dhuhga
(Rahul Kumar)
(Checked By)



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

TEST REPORT

Report Code : TR/GW/2019/12/06-001				Issue Date: 06.12.2019		
Issued to:		M/s India Glycols Limited A-1 Industrial Area , Bazpur Road Kashipur-244713, (Uttarakhand)				
Type of Sample:		Ground Water				
Sampling Location:		Borewell- Ethanol Plant				
Sample Quantity:		2 Ltr.				
Date of Sampling:		26.11.2019				
Sampling Protocol:		IS:3025 (P-1)				
Sample Packaging & Marking:		Plastic Bottle Marked as "1"				
Sample Drawn by:		Mr. Deepak sati & Team				
Environmental Condition:		Sunny day				
Date of Receipt of Sample:		26.11.2019				
Analysis Duration:		26.11.2019 to 30.11.2019				
S.No	Test Parameters	Units	Results	Specification - IS:10500		Test Method
				Acceptable Limit	Permissible Limit	
A. Physical Parameters						
1.	pH value	--	7.46	6.5 to 8.5	No relaxation	IS: 3025(P-11) 1983 R-2002
2.	Colour	APHA	<5.0	Max 5	Max 15	IS: 3025(P-4)1983 R-2002
3.	Total Dissolved Solids	mg/l	242	Max 500	Max 2000	IS: 3025 (P-16): 1984
4.	Turbidity	NTU	<1.0	Max 1	Max 5	IS: 3025 (P- 10) 1984 R-2002
5.	Specific Conductivity	µmhos/cm	285	--	--	IS:3025 (P-14): 2013
B. Chemical Parameters						
6.	Total Hardness (as CaCO ₃)	mg/l	184	Max 200	Max 600	IS: 3025(P-21) 1983 R-2002
7.	Chlorides (as Cl)	mg/l	20.0	Max 250	Max 1000	IS: 3025 (P-32) 1988
8.	Calcium (as Ca)	mg/l	36.8	Max. 75	Max. 200	IS:3025 (P-40) 1991
9.	Magnesium (as Mg)	mg/l	22.08	Max. 30	Max. 100	IS:3025 (P-46) 1994
10.	Sulphate (as SO ₄)	mg/l	10.6	Max 200	Max 400	IS: 3025 (P-24) 1986 R-2003
11.	Total Alkalinity	mg/l	175.4	Max 200	Max 600	IS:3025 (P-23) 1986 R-2003

End of Report

Rehul Kumar
(Checked by)



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INDIA GLYCOLS LIMITED, LABORATORY

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

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

TEST REPORT

Report Code : TR/GW/2019/12/06-001		Issue Date: 06.12.2019		
Issued to:	M/s India Glycols Limited A-1 Industrial Area , Bazpur Road Kashipur-244713, (Uttarakhand)			
Type of Sample:	Ground Water			
Sampling Location:	Borewell- Ethanol Plant			
Sample Quantity:	2 x 200 ml			
Date of Sampling:	26.11.2019			
Sampling Protocol:	IS:1622 (1981) R-2009			
Sample Packaging & Marking:	Sterilized Glass Bottle Marked as "1"			
Sample Drawn by:	Mr. Deepak sati & Team			
Environmental Condition:	Sunny day			
Date of Receipt of Sample:	26.11.2019			
Analysis Duration:	26.11.2019 to 28.11.2019			
Microbiological Parameters				
	Test Parameters	Units	Results	Test Method
1	Total Coliform	MPN/100 ml	< 2	IS : 1622 (1981) RA- 2009
2	E.coli	MPN/100 ml	< 2	IS : 1622 (1981) RA- 2009

Note: The above test results <2 MPN/100 ml is below detection limit i.e. (Absent/ 100 ml). So the test sample is comply/ pass as per specification IS 10500: 2012.

End of Report*

Rahul
(Rahul kumar)
(Checked by)



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District - Udham Singh Nagar - 244713 (Uttarakhand)
Email: igllabksp@gmail.com

TEST REPORT

Report Code : TR/GW/2019/12/06-002				Issue Date: 06.12.2019		
Issued to:		M/s India Glycols Limited A-1 Industrial Area , Bazpur Road Kashipur-244713, (Uttarakhand)				
Type of Sample:		Ground Water				
Sampling Location:		Borewell- Chemical Plant				
Sample Quantity:		2 Ltr.				
Date of Sampling:		26.11.2019				
Sampling Protocol:		IS:3025 (P-1)				
Sample Packaging & Marking:		Plastic Bottle Marked as "1"				
Sample Drawn by:		Mr. Deepak sati & Team				
Environmental Condition:		Sunny day				
Date of Receipt of Sample:		26.11.2019				
Analysis Duration:		26.11.2019 to 30.11.2019				
S.No	Test Parameters	Units	Results	Specification - IS:10500		Test Method
				Acceptable Limit	Permissible Limit	
A. Physical Parameters						
1.	pH value	--	7.38	6.5 to 8.5	No relaxation	IS: 3025(P-11) 1983 R-2002
2.	Colour	APHA	<5.0	Max 5	Max 15	IS: 3025(P-4)1983 R-2002
3.	Total Dissolved Solids	mg/l	186	Max 500	Max 2000	IS: 3025 (P-16): 1984
4.	Turbidity	NTU	<1.0	Max 1	Max 5	IS: 3025 (P- 10) 1984 R-2002
5.	Specific Conductivity	µmhos/cm	296	--	--	IS:3025 (P-14): 2013
B. Chemical Parameters						
6.	Total Hardness (as CaCO ₃)	mg/l	188	Max 200	Max 600	IS: 3025(P-21) 1983 R-2002
7.	Chlorides (as Cl)	mg/l	18.0	Max 250	Max 1000	IS: 3025 (P-32) 1988
8.	Calcium (as Ca)	mg/l	40.0	Max. 75	Max. 200	IS:3025 (P-40) 1991
9.	Magnesium (as Mg)	mg/l	21.12	Max. 30	Max. 100	IS:3025 (P-46) 1994
10.	Sulphate (as SO ₄)	mg/l	13.5	Max 200	Max 400	IS: 3025 (P-24) 1986 R-2003
11.	Total Alkalinity	mg/l	167.6	Max 200	Max 600	IS:3025 (P-23) 1986 R-2003

End of Report

Rahul Kumar
(Checked by)

(Authorized Signatory)

India Glycols Limited Laboratory
Authorized Signatory
Rahul Kumar

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TEST REPORT

Report Code : TR/GW/2019/12/06-002		Issue Date: 06.12.2019		
Issued to:	M/s India Glycols Limited A-1 Industrial Area , Bazpur Road Kashipur-244713, (Uttarakhand)			
Type of Sample:	Ground Water			
Sampling Location:	Borewell- Chemical Plant			
Sample Quantity:	2 x 200 ml			
Date of Sampling:	26.11.2019			
Sampling Protocol:	IS:1622 (1981) R-2009			
Sample Packaging & Marking:	Sterilized Glass Bottle Marked as "1"			
Sample Drawn by:	Mr. Deepak sati & Team			
Environmental Condition:	Sunny day			
Date of Receipt of Sample:	26.11.2019			
Analysis Duration:	26.11.2019 to 28.11.2019			
Microbiological Parameters				
	Test Parameters	Units	Results	Test Method
1	Total Coliform	MPN/100 ml	< 2	IS : 1622 (1981) RA- 2009
2	E.coli	MPN/100 ml	< 2	IS : 1622 (1981) RA- 2009

Note: The above test results <2 MPN/100 ml is below detection limit i.e. (Absent/ 100 ml). So the test sample is comply/ pass as per specification IS 10500: 2012.

End of Report*

Rahul
(Rahul kumar)
(Checked by)



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Email: igllabksp@gmail.com

TEST REPORT

Report Code : TR/WW/2019/12/06-001		Issue Date: 06.12.2019			
Issued to:		M/s India Glycols Limited A - 1 Industrial Area, Bazpur Road Kashipur - 244713, U. S. Nagar (Uttarakhand)			
Type of Sample:		Waste Water			
Sampling Location:		Chemical ETP Outlet			
Sample Quantity:		2 Liter + 1 Liter			
Date of Sampling:		25.11.2019			
Sampling Protocol:		IS:3025 (P-1)			
Sample Packaging & Marking:		HDPE Carboy Marked "C-1"			
Sample Drawn by:		Mr. Satveer Yadav & Team			
Environmental Condition:		Sunny Day			
Date of Receipt of Sample:		25.11.2019			
Analysis Duration:		25.11.2019 to 29.11.2019			
S.No	Test Parameters	Units	Results	Limits	Test Method
A Physical Parameters					
1.	pH Value	-	7.41	5.5 to 9.0	IS: 3025(P-11) 1983 R-2002
2.	Total Suspended Solids	mg/l	70.0	100	IS: 3025(P-17) 1984 R-2002
B Chemical Parameters					
3.	Chemical Oxygen Demand (COD)	mg/l	66.56	250	IS: 3025 (P-58) 2006
4.	Biochemical Oxygen Demand (BOD)@ 27°C for 3 Days	mg/l	16	30	IS: 3025 (P-44) 1993
5.	Oil & Grease	mg/l	< 4	10	IS: 3025(P-39)

End of Report

Rahul
(Rahul Kumar)
(Checked By)



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TEST REPORT

Report Code : TR/WW/2019/12/06-002		Issue Date: 06.12.2019			
Issued to:		M/s India Glycols Limited A - 1 Industrial Area, Bazpur Road Kashipur - 244713, U. S. Nagar (Uttarakhand)			
Type of Sample:		Waste Water			
Sampling Location:		STP Outlet			
Sample Quantity:		2 Liter + 1 Liter			
Date of Sampling:		25.11.2019			
Sampling Protocol:		IS:3025 (P-1)			
Sample Packaging & Marking:		HDPE Carboy Marked "STP-1"			
Sample Drawn by:		Mr. Satveer Yadav & Team			
Environmental Condition:		Sunny Day			
Date of Receipt of Sample:		25.11.2019			
Analysis Duration:		25.11.2019 to 29.11.2019			
S.No	Test Parameters	Units	Results	Limits	Test Method
A Physical Parameters					
1.	pH Value	-	7.53	5.5 to 9.0	IS: 3025(P-11) 1983 R-2002
2.	Total Suspended Solids	mg/l	50	100	IS: 3025(P-17) 1984 R-2002
B Chemical Parameters					
3.	Chemical Oxygen Demand (COD)	mg/l	54.08	250	IS: 3025 (P-58) 2006
4.	Biochemical Oxygen Demand (BOD)@ 27°C for 3 Days	mg/l	18.0	30	IS: 3025 (P-44) 1993
5.	Oil & Grease	mg/l	< 4	10	IS: 3025(P-39)

End of Report

Rahul Kumar
(Rahul Kumar)
(Checked By)



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TEST REPORT

Report Code : TR/WW/2019/12/06-003		Issue Date: 06.12.2019			
Issued to:		M/s India Glycols Limited A - 1 Industrial Area, Bazpur Road Kashipur - 244713, U. S. Nagar (Uttarakhand)			
Type of Sample:		Waste Water			
Sampling Location:		Bottling Plant			
Sample Quantity:		2 Liter + 1 Liter			
Date of Sampling:		25.11.2019			
Sampling Protocol:		IS:3025 (P-1)			
Sample Packaging & Marking:		HDPE Carboy Marked "BP-1"			
Sample Drawn by:		Mr. Satveer Yadav & Team			
Environmental Condition:		Sunny Day			
Date of Receipt of Sample:		25.11.2019			
Analysis Duration:		25.11.2019 to 29.11.2019			
S.No	Test Parameters	Units	Results	Limits	Test Method
A Physical Parameters					
1.	pH Value	-	7.81	5.5 to 9.0	IS: 3025(P-11) 1983 R-2002
2.	Total Suspended Solids	mg/l	50.0	100	IS: 3025(P-17) 1984 R-2002
B Chemical Parameters					
3.	Chemical Oxygen Demand (COD)	mg/l	120.64	250	IS: 3025 (P-58) 2006
4.	Biochemical Oxygen Demand (BOD)@ 27°C for 3 Days	mg/l	22.0	30	IS: 3025 (P-44) 1993
5.	Oil & Grease	mg/l	< 4	10	IS: 3025(P-39)

End of Report

Rahul Kumar
(Rahul Kumar)
(Checked By)



(Authorized Signatory)

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Email: igllabksp@gmail.com

TEST REPORT

Report Code : TR/WW/2019/12/06-004		Issue Date: 06.12.2019			
Issued to:		M/s India Glycols Limited A - 1 Industrial Area, Bazpur Road Kashipur - 244713, U. S. Nagar (Uttarakhand)			
Type of Sample:		Waste Water			
Sampling Location:		Guargum Plant			
Sample Quantity:		2 Liter + 1 Liter			
Date of Sampling:		25.11.2019			
Sampling Protocol:		IS:3025 (P-1)			
Sample Packaging & Marking:		HDPE Carboy Marked "GGP-1"			
Sample Drawn by:		Mr. Satveer Yadav & Team			
Environmental Condition:		Sunny Day			
Date of Receipt of Sample:		25.11.2019			
Analysis Duration:		25.11.2019 to 29.11.2019			
S.No	Test Parameters	Units	Results	Limits	Test Method
A Physical Parameters					
1.	pH Value	-	7.93	5.5 to 9.0	IS: 3025(P-11) 1983 R-2002
2.	Total Suspended Solids	mg/l	90.0	100	IS: 3025(P-17) 1984 R-2002
B Chemical Parameters					
3.	Chemical Oxygen Demand (COD)	mg/l	162.24	250	IS: 3025 (P-58) 2006
4.	Biochemical Oxygen Demand (BOD)@ 27°C for 3 Days	mg/l	26	30	IS: 3025 (P-44) 1993
5.	Oil & Grease	mg/l	< 4	10	IS: 3025(P-39)

End of Report


(Rahul Kumar)
(Checked By)



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