

(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 Re	port No. TR/AAQ/2019	9/12/06-001	Issue Date: 06.12.2019						
Issued to		M/s India Glycols Limited							
		A – 1, Industrial Area, Bazpur Road							
		Kashipur - 244	713, U. S. Na	igar (Uttarakhan	d)				
Type of	Sample:	Ambient Air			2.51				
Samplir	ng Location:	Bio Gas Plant -	- Behind Labo	oratory					
-	Sampling:	25.11.2019 to 2	26.11.2019	Â					
CALIFIC ALL AND ALL ALL ALL ALL ALL ALL ALL ALL ALL AL	f Collection of Sample:	Sampling by L							
Packing	, Marking & Seal:	Fliter Paper in	Plastic Envelo	op, Absorbing So	olution ir	Reagent Bottle.			
	ng Protocol:	IS: 5182 (P-14	)						
	Drawn by:	Mr. Deepak Sa	ti & Team						
	Sample Receiving:	26.11.2019							
	Sampling:	24 Hrs (0930 H	24 Hrs (0930 Hrs to 0930 Hrs)						
	Protocol:	National Ambient Air Quality Standards (NAAQS) 2009							
	mental Condition:	Sunny Day							
Analysi	s Duration:	26.11.2019 to 27.11.2019							
		. <u>l</u>	RESULTS			4530			
S.No	Test Parameters	Units	Results	NAAQS, 2	009	Test Method			
1	Destigulate Matter (DM	) µg/m <sup>3</sup>	83.40	Annual*	60	- IS:5182 (23) 2006			
1.	Particulate Matter (PM <sub>10</sub>	) μg/m		24 Hours**	100	10.0104 (20) 2000			
2.	Sulphur Dioxide (SO <sub>2</sub> )	μg/m <sup>3</sup>	12.74	Annual*	50	IS :5182 (2) 2001			
4.		PB		24 Hours**	80				
3.	Nitrogen Oxides (as NO	2) μg/m <sup>3</sup>	28.55	Annual* 24 Hours**	40 80	IS :5182 (6) 2006			
	, ,			Annual*	40	Refer Control Application			
4.	Particulate Matter (PM2.	$\mu g/m^3$	41.49	24 Hours**	60	- US EPA 40 CFR (P-50			
				Annual*	100	APHA IInd Ed.			
5.	Ammonia	μg/m <sup>3</sup>	11.24	24 Hours**	400	Method 801: 1977			
		. 3	DDI	8 Hours*	100	IS :5182 (IX)-1974 R			
6.	Ozone (8 Hours)	μg/m <sup>3</sup>	BDL	1 Hour**	180	2003			
	Carbon Monoxide (as C	0)	ND	8 Hours*	02	Electrochemical			
7.	(1Hour) <sup>#</sup>	mg/m <sup>3</sup>	ND	1 Hour**	04	Method			

\*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.

<sup>#</sup>Marked Parameter not in our NABL Scope.

ND- Not detected, BDL – Below Detection Limit (Detection Limit –  $10.0 \ \mu g/m^3$ )

ochul kymag (Checked by)

\*End of Report\*



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Test Re	eport No. TR/AAQ/2019		Issue Date: 06.12.2019						
Issued t	to:-	M/s India Glycols Limited							
		A – 1, Industrial Area, Bazpur Road							
		Kashipur – 244	4713, U. S. N	agar (Uttarakhan	d)				
Type of	f Sample:	Ambient Air							
	ng Location:	Main Gate Nea	ar Security Of	fice					
Date of	Sampling:	26.11.2019 to 2	27.11.2019						
Mode o	of Collection of Sample:	Sampling by L							
Packing	g, Marking & Seal:	Fliter Paper in	Plastic Envel	op, Absorbing So	olution in	n Reagent Bottle.			
Sampli	ng Protocol:	IS: 5182 (P-14							
Sample	Drawn by:	Mr. Deepak Sa	ıti & Team						
Date of	Sample Receiving:	27.11.2019							
Time o	f Sampling:	24 Hrs (1100 Hrs to 1100 Hrs)							
	Protocol:	National Ambient Air Quality Standards (NAAQS) 2009							
Enviror	mental Condition:	Sunny Day							
Analysi	is Duration:	27.11.2019 to 28.11.2019							
**			RESULTS			-			
S.No	Test Parameters	Units	Results	NAAQS, 2	009	Test Method			
1.	Destinulate Matter (DM	) µg/m <sup>3</sup>	80.31	Annual*	60	- IS:5182 (23) 2006			
1.	Particulate Matter (PM <sub>10</sub>	) µg/m		24 Hours**	100	13.3182 (23) 2000			
2.	Sulphur Dioxide (SO <sub>2</sub> )	μg/m <sup>3</sup>	8.97	Annual*	50	IS :5182 (2) 2001			
		PO	10 TABLE	24 Hours**	<u>80</u> 40				
3.	Nitrogen Oxides (as NO2	$\mu g/m^3$	14.28	Annual* 24 Hours**	80	IS :5182 (6) 2006			
				Annual*	40				
4.	Particulate Matter (PM <sub>2.5</sub>	<sub>5</sub> ) μg/m <sup>3</sup>	38.93	24 Hours**	60	- US EPA 40 CFR (P-50			
				Annual*	100	APHA IInd Ed.			
5.	Ammonia	μg/m <sup>3</sup>	BDL	24 Hours**	400	Method 801: 1977			
6.	Ozone (8 Hours)	μg/m <sup>3</sup>	BDL	8 Hours*	100	IS :5182 (IX)-1974 R			
0.	Ozone (o riours)	μg/m	DDL	1 Hour**	180	2003			
7.	Carbon Monoxide (as CO	D) mg/m <sup>3</sup>	ND	8 Hours*	02	Electrochemical			
1.	(1Hour) <sup>#</sup>	mg/m	IND	1 Hour**	04	Method			

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<sup>#</sup>Marked Parameter is not in our NABL Scope.

BDL- Below Detection Limit (Detection Limit : Ozone – 10.0 μg/m<sup>3</sup>, Ammonia -10.0 μg/m<sup>3</sup>). ND- Not detected

(Checked by)

\*End of Report\*



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### TEST REPORT

port No. TR/AAQ/2019		Issue Date: 06.12.2019					
0:		ols Limited					
*	A – 1, Industria	al Area, Bazp	ur Road				
	Kashipur – 244	713, U. S. Na	agar (Uttarakhan	d)			
Sample:	Ambient Air	4					
ng Location:	Fire Station	2007-74,94	- 200				
Sampling:	27.11.2019 to 2	28.11.2019					
f Collection of Sample:							
, Marking & Seal:	Fliter Paper in	Plastic Envel	op, Absorbing S	olution ii	n Reagent Bottle.		
ng Protocol:							
Drawn by:		t <mark>i &amp; Tea</mark> m		1.			
Sample Receiving:	28.11.2019						
f Sampling:	24 Hrs (1215 Hrs to 1215 Hrs)						
Protocol:	National Ambient Air Quality Standards (NAAQS) 2009						
mental Condition:							
s Duration:	28.11.2019 to 2	29.11.2019					
		RESULTS		10			
Test Parameters	Units	Results	NAAQS, 2	2019	Test Method		
Particulate Matter (PM <sub>10</sub>	) μg/m <sup>3</sup>	75.47	Annual* 24 Hours**	60 100	- IS:5182 (23) 2006		
	. 1	8.99	Annual*	50	10 (182 (2) 2001		
Sulphur Dioxide (SO <sub>2</sub> )	µg/m <sup>2</sup>		24 Hours**	80	– IS :5182 (2) 2001		
Nites and Onlides (as NO	) ualm <sup>3</sup>	12.00	Annual*	40	IS :5182 (6) 2006		
Nitrogen Oxides (as NO;	2) μg/m	12.90			10 .5102 (0) 2000		
Particulate Matter (PMa	$\mu g/m^3$	32.91			US EPA 40 CFR (P-50		
Turnoulate Matter (1112.	,, <u>, , , , , , , , , , , , , , , , , ,</u>				APHA IInd Ed.		
Ammonia	μg/m <sup>3</sup>	BDL		-	Method 801: 1977		
		BDL	ANAL CONTRACTOR AND	1000	IS :5182 (IX)-1974 R		
Ozone (8 Hours)	μg/m <sup>3</sup>				2003		
Carbon Monovida (as C	<b>)</b>		Contraction and the second	2 2002 (1202)	Electrochemical		
(1Hour) <sup>#</sup>	$mg/m^3$	ND	1 Hour**	04	Method		
	o: Sample: ng Location: Sampling: f Collection of Sample: s, Marking & Seal: ng Protocol: Drawn by: Sample Receiving: Sample Receiving: Sampling: Protocol: mental Condition: s Duration: Suphur Dioxide (SO <sub>2</sub> ) Nitrogen Oxides (as NO; Particulate Matter (PM <sub>10</sub> ) Sulphur Dioxide (SO <sub>2</sub> ) Nitrogen Oxides (as NO; Particulate Matter (PM <sub>2.:</sub> Ammonia Ózone (8 Hours) Carbon Monoxide (as CO	A - 1, Industria Kashipur - 244Sample:Ambient Airng Location:Fire StationSampling:27.11.2019 to 2f Collection of Sample:Sampling by Laga, Marking & Seal:Fliter Paper inng Protocol:IS: 5182 (P-14)Drawn by:Mr. Deepak SaSample Receiving:28.11.2019Campling:24 Hrs (1215 HProtocol:National Ambiimental Condition:Sunny Days Duration:28.11.2019 to 2Test ParametersUnitsParticulate Matter (PM10) $\mu g/m^3$ Nitrogen Oxides (as NO2) $\mu g/m^3$ Particulate Matter (PM2.5) $\mu g/m^3$ Ammonia $\mu g/m^3$ Ozone (8 Hours) $\mu g/m^3$ Carbon Monoxide (as CO) $mg/m^3$	NoteM/s India Glycols Limited A - 1, Industrial Area, Bazp Kashipur - 244713, U. S. Na Ambient AirSample:Ambient Airng Location:Fire StationSampling:27.11.2019 to 28.11.2019f Collection of Sample:Sampling by Laboratoryg, Marking & Seal:Fliter Paper in Plastic Envel ng Protocol:IS: 5182 (P-14)Drawn by:Drawn by:Mr. Deepak Sati & TeamSample Receiving:28.11.2019Casmpling:24 Hrs (1215 Hrs to 1215 HProtocol:National Ambient Air Quali umental Condition:Sunny Day s Duration:28.11.2019 to 29.11.2019RESULTSTest ParametersParticulate Matter (PM10) $\mu g/m^3$ Nitrogen Oxides (as NO2) $\mu g/m^3$ Nitrogen Oxides (as NO2) $\mu g/m^3$ BDLOzone (8 Hours) $\mu g/m^3$ BDLCarbon Monoxide (as CO) $mg/m^3$ ND	M/s India Glycols Limited A - 1, Industrial Area, Bazpur Road Kashipur - 244713, U. S. Nagar (Uttarakhan Ambient Air g Location:Sample:Ambient AirSample:Ambient Airga Location:Fire StationSampling:27.11.2019 to 28.11.2019f Collection of Sample:Sampling by Laboratorys, Marking & Seal:Fliter Paper in Plastic Envelop, Absorbing Song Protocol:IS: 5182 (P-14)Torawn by:Drawn by:Mr. Deepak Sati & TeamSampling:24 Hrs (1215 Hrs to 1215 Hrs)Protocol:National Ambient Air Quality Standards (N/Sampling:24 Hrs (1215 Hrs to 1215 Hrs)Protocol:National Ambient Air Quality Standards (N/mental Condition:Sunny Days Duration:28.11.2019 to 29.11.2019RESULTSTest ParametersUnitsResultsNAAQS,2Particulate Matter (PM10) $\mu g/m^3$ 75.47Annual*24 Hours**Nitrogen Oxides (as NO2) $\mu g/m^3$ BDLAnnual*24 Hours**Ammonia $\mu g/m^3$ BDL8 Hours**Ózone (8 Hours) $\mu g/m^3$ BDL8 Hours**Carbon Monoxide (as CO) $ma(m^3)$ ND8 Hours*	M/s India Glycols LimitedAA-1, Industrial Area, Bazpur RoadKashipur - 244713, U. S. Nagar (Uttarakhand)Sample:Ambient Airg Location:Fire StationSampling:27.11.2019 to 28.11.2019f Collection of Sample:Sampling by Laboratorya, Marking & Seal:Fliter Paper in Plastic Envelop, Absorbing Solution inng Protocol:IS: 5182 (P-14)Drawn by:Mr. Deepak Sati & TeamSample Receiving:28.11.2019'Sampling:24 Hrs (1215 Hrs to 1215 Hrs)Protocol:National Ambient Air Quality Standards (NAAQS) 2mental Condition:Sunny Days Duration:28.11.2019 to 29.11.2019RESULTSTest ParametersUnitsResultsNatiogen Oxides (as NO2) $\mu g/m^3$ Particulate Matter (PM10) $\mu g/m^3$ Nitrogen Oxides (as NO2) $\mu g/m^3$ Barticulate Matter (PM2.5) $\mu g/m^3$ BDLAnnual* 4024 Hours**80Nitrogen Oxides (as NO2) $\mu g/m^3$ BDLAnnual* 4024 Hours**40024 Hours**40024 Hours**40024 Hours**60Ammonia $\mu g/m^3$ BDLAnnual*Ammonia $\mu g/m^3$ BDLAnnual*Carbon Monoxide (as CO) $m g/m^3$ ND8 Hours*Ozone (8 Hours) $\mu g/m^3$ BDL8 Hours*Carbon Monoxide (as CO)		

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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.

<sup>#</sup> Marked Parameter is not in our NABL Scope.

BDL- Below Detection Limit (Detection Limit : Ozone – 10.0 µg/m<sup>3</sup>, Ammonia-10.0 µg/m<sup>3</sup>). ND- Not detected **\*End of Report\*** 

Rehul kymas (Checked by)



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District - Udham Singh Nagar - 244713 (Uttarakhand)

Email: igllabksp@gmail.com

### TEST REPORT

	eport No. TR/AAQ/2019		Issue Date: 06.12.2019					
Issued 1	to:	M/s India Glycols Limited						
		A – 1 Industria	l Area, Bazpi	ur Road				
		Kashipur – 244	4713, U. S. N	agar (Uttarakhan	d)			
Type of	f Sample:	Ambient Air				and the second sec		
Sampli	ng Location:	Coal Yard near	r Slop 2 Cont	rol Room				
	Sampling:	28.11.2019 to 2	29.11.2019					
Mode o	of Collection of Sample:	Sampling by L	aboratory					
Packing	g, Marking & Seal:	Fliter Paper in	Plastic Envel	op, Absorbing So	olution in	n Reagent Bottle.		
Sampli	ng·Protocol:	IS: 5182 (P-14	)					
Sample	Drawn by:	Mr. Satveer Ya	adav & Team					
Date of	Sample Receiving:	29.11.2019						
	f Sampling:	24 Hrs (1400 Hrs to 1400 Hrs)						
	Protocol:	National Ambient Air Quality Standards (NAAQS) 2009						
Enviror	mental Condition:	Sunny Day						
Analysi	is Duration:	29.11.2019 to 30.11.2019						
		• <u>•</u> ••••••••••••••••••••••••••••••••••	RESULTS					
S.No	Test Parameters	Units	Results	NAAQS, 2	009	Test Method		
1.	Particulate Matter (PM10)	) µg/m <sup>3</sup>	91.45	Annual* 24 Hours**	60 100	- IS:5182 (23) 2006		
2.	Sulphur Dioxide (SO <sub>2</sub> )	μg/m <sup>3</sup>	14.01	Annual*	50	- IS :5182 (2) 2001		
				24 Hours** Annual*	80 40			
3.	Nitrogen Oxides (as NO <sub>2</sub>	$\mu g/m^3$	30.05	24 Hours**	80	IS :5182 (6) 2006		
				Annual*	40			
4.	Particulate Matter (PM <sub>2.5</sub>	) $\mu g/m^3$	40.20	24 Hours**	60	US EPA 40 CFR (P-50		
5.	5. Ammonia		BDL	Annual*	100	APHA IInd Ed.		
э,	Ammonia	μg/m <sup>3</sup>	BDL	24 Hours**	400	Method 801: 1977		
6.	Ozone (8 Hours)	μg/m <sup>3</sup>	BDL	8 Hours*	100	IS :5182 (IX)-1974 R		
v.		Concession of the	500	1 Hour**	180	2003		
7.	Carbon Monoxide (as CC	$mg/m^3$	ND	8 Hours*	02	Electrochemical		
2.00	(1Hour) <sup>#</sup>			1 Hour**	04	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.

\*End of Report\*

<sup>#</sup>Marked Parameter is not in our NABL Scope.

ND- Not detected, BDL - Below Detection Limit (Detection Limit - Ozone: 10.0 µg/m<sup>3</sup>, Ammonia: 10.0 µg/m<sup>3</sup>)

Rachel Jamas Checked by)



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### TEST REPORT

Test Re	port No. TR/AAQ/2019	0/12/06-005	Issue Date: 06.12.2019						
Issued to		M/s India Glycols Limited							
		A – ,1 Industria	al Area, Bazp	ur Road	89				
		Kashipur – 244	713, U. S. Na	agar (Uttarakhan	d)				
Type of	Sample:	Ambient Air							
	ng Location:	IGL Colony No	ear STP						
Date of	Sampling:	29.11.2019 to 3	30.11.2019						
Mode o	f Collection of Sample:	Sampling by L	aboratory			24			
Packing	, Marking & Seal:	Fliter Paper in	Plastic Envel	op, Absorbing So	olution ir	Reagent Bottle.			
Samplin	ng Protocol:	IS: 5182 (P-14)							
Sample	Drawn by:	Mr. Satveer Ya	idav & Team						
Date of	Sample Receiving:	30.11.2019							
Time of	Sampling:	24 Hrs (1600 Hrs to 1600 Hrs)							
	Protocol:	National Ambient Air Quality Standards (NAAQS) 2009							
Enviror	mental Condition:	Sunny Day							
Analysi	s Duration:	30.11.2019 to 01.12.2019							
	+*		RESULTS						
S.No	Test Parameters	Units	Results	NAAQ	5	Test Method			
1.	Particulate Matter (PM <sub>10</sub>	) μg/m <sup>3</sup>	79.75	Annual*	60	- IS:5182 (23) 2006			
1.	, uniounate matter (1 mil)	,		24 Hours**	100 50				
2.	Sulphur Dioxide (SO <sub>2</sub> )	μg/m <sup>3</sup>	9.14	Annual* 24 Hours**	80	- IS :5182 (2) 2001			
				Annual*	40				
3.	Nitrogen Oxides (as NO	$\mu g/m^3$	10.39	24 Hours**	80	- IS :5182 (6) 2006			
			25.01	Annual*	40	- US EPA 40 CFR (P-50			
4.	Particulate Matter (PM <sub>2.2</sub>	$\mu g/m^3$	35.01	24 Hours**	60				
~		μg/m <sup>3</sup>	BDL	Annual*	100	APHA IInd Ed.			
5.	Ammonia	μg/m	BDL	24 Hours**	400	Method 801: 1977			
6.	Ozone (8 Hours)	μg/m <sup>3</sup>	BDL	8 Hours*	100	IS :5182 (IX)-1974 R			
0.				1 Hour**	180	2003			
7.	Carbon Monoxide (as C	O) mg/m <sup>3</sup>	ND	8 Hours*	02 ·	Electrochemical			
1.	(1Hour) <sup>#</sup>			1 Hour**	04	Method			

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\*End of Report\*

<sup>#</sup>Marked Parameter is not in our NABL Scope.

ND- Not detected, BDL - Below Detection Limit (Detection Limit - Ozone: 10.0 µg/m<sup>3</sup>, Ammonia: 10.0 µg/m<sup>3</sup>)

(Rouhul Kymous) ) (Checked by)



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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)	1	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 <sup>3</sup>	52.67	150.0	IS: 11255 (P-1) 1985		
2.	Sulphur Dioxide (SO <sub>2</sub> )	mg/Nm <sup>3</sup>	36.76	NA	IS: 11255 (P-2) 1985		
3.	Nitrogen oxides (as NO <sub>x</sub> )	mg/Nm <sup>3</sup>	59.33	NA	IS: 11255 (P-7) 2005		

(Checked By)

\*End of Report\*

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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/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

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

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- 4) The Test sample will be disposed off after one week from the date of issue of test report, unless until specified by the customer.

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Email: igllabksp@gmail.com

### **TEST REPORT**

Test Report No: TR/SM/2019/12/06-006	1	Issued Date: 06/12/2019
Issued to	:	M/s India Glycols Limited
		A – 1 Industrial Area, Bazpur Road
ē		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 <sup>3</sup>	70.49	150.0	IS: 11255 (P-1) 1985	
2.	Sulphur Dioxide (SO <sub>2</sub> )	mg/Nm <sup>3</sup>	35.02	NA	IS: 11255 (P-2) 1985	
3.	Nitrogen oxides (as NO <sub>x</sub> )	mg/Nm <sup>3</sup>	67.97	NA	IS: 11255 (P-7) 2005	

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### **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	1	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	;	2007			
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)@ 12% CO <sub>2</sub> Correction	mg/Nm <sup>3</sup>	87.65	150.0	IS: 11255 (P-1) 1985	
2.	Sulphur Dioxide (SO <sub>2</sub> )	mg/Nm <sup>3</sup>	37.04	NA	IS: 11255 (P-2) 1985	
3.	Nitrogen oxides (as NO <sub>x</sub> )	mg/Nm <sup>3</sup>	63.04	NA	IS: 11255 (P-7) 2005	

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### **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.)	1	
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 <sub>2</sub> Correction	mg/Nm <sup>3</sup>	78.14	150.0	IS: 11255 (P-1) 1985
2.	Sulphur Dioxide (SO <sub>2</sub> )	mg/Nm <sup>3</sup>	59.81	NA	IS: 11255 (P-2) 1985
3.,	Nitrogen oxides (as NO <sub>x</sub> )	mg/Nm <sup>3</sup>	60.12	NA	IS: 11255 (P-7) 2005

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### **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					
nits Test Method	Emission Li	Result	Unit	Test Parameter	S.No
IS: 11255 (P-1) 1985	150.0	89.05	mg/Nm <sup>3</sup>	Particulate Matter (PM)@ 12% CO <sub>2</sub> Correction	1.
IS: 11255 (P-2) 1985	NA	61.14	mg/Nm <sup>3</sup>	Sulphur Dioxide (SO <sub>2</sub> )	2.
IS: 11255 (P-7) 2005	NA	69.07	mg/Nm <sup>3</sup>	Nitrogen oxides (as NO <sub>x</sub> )	3.
	NA	5.7			10-028

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### 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)	1	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	<b>Emission Limits</b>	Test Method	
1.	Particulate Matter (PM)@ 12% CO <sub>2</sub> Correction	mg/Nm <sup>3</sup>	85.76	150.0	IS: 11255 (P-1) 1985	
2.	Sulphur Dioxide (SO <sub>2</sub> )	mg/Nm <sup>3</sup>	49.27	NA	IS: 11255 (P-2) 1985	
3.	Nitrogen oxides (as NO <sub>x</sub> )	mg/Nm <sup>3</sup>	54.37	NA	IS: 11255 (P-7) 2005	
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### **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	11
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	24
Average velocity of emission (m/sec)	:	11.00	
Average Flow Rate (LPM)		15	2-
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)@ 12% CO <sub>2</sub> Correction	mg/Nm <sup>3</sup>	54.23	150.0	IS: 11255 (P-1) 1985		
2.	Sulphur Dioxide (SO <sub>2</sub> )	mg/Nm <sup>3</sup>	54.68	NA	IS: 11255 (P-2) 1985		
3.	Nitrogen oxides (as NO <sub>x</sub> )	mg/Nm <sup>3</sup>	63.63	NA	IS: 11255 (P-7) 2005		
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### **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	1	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	<b>Emission Limits</b>	Test Method	
1.	Particulate Matter (PM)@ 12% CO <sub>2</sub> Correction	mg/Nm <sup>3</sup>	63.93	150.0	IS: 11255 (P-1) 1985	
2.	, Sulphur Dioxide (SO <sub>2</sub> )	mg/Nm <sup>3</sup>	48.16	NA	IS: 11255 (P-2) 1985	
3.	Nitrogen oxides (as NO <sub>x</sub> )	mg/Nm <sup>3</sup>	63.26	NA	IS: 11255 (P-7) 2005	
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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	3	27/11/2019
Analysis Duration	:	27/11/2019to 28/11/2019

			RESULTS	_ 4 100-	
S. No	Test Parameter	Unit	Results	<b>Emission</b> Limits	Test Method
1.	Particulate Matter (PM)@ 12% CO <sub>2</sub> Correction	mg/Nm <sup>3</sup>	104.25	1200	IS: 11255 (P-1) 1985
2.	Sulphur Dioxide (SO <sub>2</sub> )	mg/Nm <sup>3</sup>	7.11		IS: 11255 (P-2) 1985
3.	Nitrogen oxides (as NO <sub>x</sub> )	mg/Nm <sup>3</sup>	31.42	(M.F.)	IS: 11255 (P-7) 2005
CF	· (Phuhan John Kumas) (Checked By)		*End of Report*	(Auth	ofs Limited Laboratory)

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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)	1	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 <sub>2</sub> correction	mg/Nm <sup>3</sup>	78.95	150.0	IS: 11255 (P-1) 1985			
2.	Sulphur Dioxide (SO <sub>2</sub> )	mg/Nm <sup>3</sup>	49.54	1 (X <del></del>	IS: 11255 (P-2) 1985			
3.	Nitrogen oxides (as NO <sub>x</sub> )	ppmv	31.72	1100	IS: 11255 (P-7) 2005			

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Rahul Kumas) (Checked By)

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(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/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	2	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 to1643 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 <sub>2</sub> correction	mg/Nm <sup>3</sup>	77.34	150.0	IS: 11255 (P-1) 1985			
2.	Sulphur Dioxide (SO <sub>2</sub> )	mg/Nm <sup>3</sup>	58.83	-	IS: 11255 (P-2) 1985			
3.	Nitrogen oxides (as NO <sub>x</sub> )	ppmv	36.51	1100	IS: 11255 (P-7) 2005			

\*End of Report\*

Ohuhay\_ Rahu kymay) (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)	1	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 <sub>2</sub> correction	mg/Nm <sup>3</sup>	64.65	150.0	IS: 11255 (P-1) 1985			
2.	Sulphur Dioxide (SO <sub>2</sub> )	mg/Nm <sup>3</sup>	51.17		IS: 11255 (P-2) 1985			
3.	Nitrogen oxides (as NO <sub>x</sub> )	ppmv	38.48	. 1100	IS: 11255 (P-7) 2005			

\*End of Report\*

Rachul 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

Repor	rt Code : TR/GW/2019/	/12/06-0	001	001 Issue Date: 06.12.2019					
Issued			M/s	s India Glyc					
			A-1	Industrial	Area, Bazpu	r Road			
				shipur-2447	13, (Uttarakl	hand)			
Type	of Sample:		Gro	ound Water					
	ing Location:		Bo	rewell- Etha	nol Plant				
	e Quantity:		2 L	.tr.					
Contraction of the second	of Sampling:	1001	26.	11.2019					
	ling Protocol:			3025 (P-1)					
	le Packaging & Marking:		Pla	stic Bottle I	Marked as "1"	,,			
2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	le Drawn by:		Mr	. Deepak sa	ti & Team				
Enviro	onmental Condition:			nny day					
Date of	of Receipt of Sample:		10.0	.11.2019					
	vsis Duration:		26	.11.2019 to	30.11.2019				
					Specification - IS:10500 Acceptable Permissible		Test Method		
S.No	Test Parameters	Units	s Result	Results	Acceptable Limit	Limit	Test method		
A. P	hysical Parameters								
			-	7.46	6.5 to 8.5	No	IS: 3025(P-11) 1983 R-2002		
1.	pH value			7.46	0.5 10 8.5	relaxation			
2.	Colour	APH	A	<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		
		NTU		<1.0	Max 1	Max 5	IS: 3025 (P- 10) 1984 R-200		
4.	Turbidity	000,000,00	- <u> </u>						
5.	Specific Conductivity	μmho	0.000	285			IS:3025 (P-14): 2013		
B. (	Chemical Parameters	cm							
6.	Total Hardness	mg/	1	184	Max 200	Max 600	IS: 3025(P-21) 1983 R-2002		
525	(as CaCO <sub>3</sub> )			00.0	Mar: 250	Max 1000	IS: 3025 (P-32) 1988		
7.	Chlorides (as Cl)	mg/	1	20.0	Max 250				
0	Calcium (as Ca)	mg/	1	36.8	Max. 75	Max. 200	IS:3025 (P-40) 1991		
8.				00.00	Max. 30	Max. 100	IS:3025 (P-46) 1994		
	Magnesium (as Mg)	mg/	1	22.08	Ivian. 50	AND A SUBSEQUENT AS A SUBSEQUENCE	200282 SSR 622 - 10 - 10 - 10 -		
9.	Magnesium (as Mg)	mg/					IS: 3025 (P-24) 1986 R-200		
	Magnesium (as Mg) Sulphate (as SO <sub>4</sub> ) Total Alkalinity	mg/ mg/ mg/	/1	10.6 175.4	Max 200 Max 200	Max 400 Max 600			

Phuhah Rechul Kymas) (Checked by)

\*End of Report\*

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A-1, Industrial Area Bazpur Road, Kashipur

District - Udham Singh Nagar - 244713 (Uttarakhand)

Email: igllabksp@gmail.com

### TEST REPORT

Reno	rt Code : TR/GW/2019/1		sue Date: 06.12.2	019			
Issued		M/s India Glycols Limit	ed				
		A-1 Industrial Area, Bazpur Road					
		Kashipur-244713, (Utta	arakhand)				
Type	of Sample:	Ground Water					
Samp	ling Location:	Borewell- Ethanol Plant					
Samp	le Quantity:	2 x 200 ml					
Date	of Sampling:	26.11.2019					
Samp	ling Protocol:	IS:1622 (1981) R-2009					
Samp	le Packaging & Marking:	Sterilized Glass Bottle Marked as "1"					
Samp	le.Drawn by:	Mr. Deepak sati & Team					
Envir	onmental Condition:	Sunny day					
Date	of Receipt of Sample:	26.11.2019					
Analy	ysis Duration:	26.11.2019 to 28.11.2019					
Micr	obiological 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 samp pass as per specification IS 10500: 2012.

### End of Report\*

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A-1, Industrial Area Bazpur Road, Kashipur

District - Udham Singh Nagar - 244713 (Uttarakhand)

Email: igllabksp@gmail.com

<b>FEST</b>	REP	ORT

Repo	rt Code : TR/GW/2019	/12/06-0	002	e []	Issue Date: 06	.12.2019			
Issued			M/s India Glycols Limited						
			A-1 Industria	l Area , Bazp	ur Road				
			Kashipur-24	4713, (Uttara)	khand)				
Туре	of Sample:		Ground Wate	r					
	ing Location:		Borewell- Ch	emical Plant					
Sampl	le Quantity:		2 Ltr.						
Date o	of Sampling:		26.11.2019						
Samp	ling Protocol:		IS:3025 (P-1)						
Samp	e Packaging & Marking:		Plastic Bottle	CONTRACTOR DEBLOOD STATISTICS OF ME	1"				
	le Drawn by:	-	Mr. Deepak s	ati & Team					
	onmental Condition:		Sunny day						
	of Receipt of Sample:		26.11.2019						
Analy	sis Duration:		26.11.2019 to 30.11.2019						
C N.		¥7.44			on - IS:10500	Test Method			
S.No	Test Parameters	Units	Results	Limit	Permissible Limit	Test Methou			
A. Ph	ysical Parameters	which sh							
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	s/ 296			IS:3025 (P-14): 2013			
B. Cl	nemical Parameters								
6.	Total Hardness (as CaCO <sub>3</sub> )	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 <sub>4</sub> )	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			
<u> </u>			*End of Do						

Rahul Kymas)

(Checked by)

\*End of Report\*

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A-1, Industrial Area Bazpur Road, Kashipur

District - Udham Singh Nagar - 244713 (Uttarakhand)

Email: igllabksp@gmail.com

### TEST REPORT

Repo	ort Code : TR/GW/2019/1	2/06-002	ssue Date: 06.12.2	2019			
Issue		M/s India Glycols Limited					
		A-1 Industrial Area, B	azpur Road				
		Kashipur-244713, (Ut	tarakhand)				
Туре	of Sample:	Ground Water					
Samp	oling Location:	Borewell- Chemical Pl	ant				
Samp	ble Quantity:	2 x 200 ml					
Date	of Sampling:	26.11.2019					
Samp	oling Protocol:	IS:1622 (1981) R-2009					
Samp	ole Packaging & Marking:	Sterilized Glass Bottle Marked as "1"					
Samp	ole Drawn by:	Mr. Deepak sati & Team					
Envi	ronmental Condition:	Sunny day					
Date	of Receipt of Sample:	26.11.2019					
Anal	ysis Duration:	26.11.2019 to 28.11.20	)19				
Micr	obiological Parameters		*	4			
	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\*

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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/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					
Analys	is Duration:	25.11.2019 to 29.11.2019					
S.No	Test Parameters	Units Results Limits Test Method					
Α	Physical Parameters			a (900-22			
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		
В	Chemical Parameters	ieters					
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\*

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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/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					
	ng Protocol:	IS:3025		1			
	Packaging & Marking:	HDPE Carboy Marked "STP-1"					
	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		
Α,	Physical Parameters		81				
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		
В	<b>Chemical Parameters</b>						
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\*

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A-1, Industrial Area Bazpur Road, Kashipur District - Udham Singh Nagar - 244713 (Uttarakhand)

Email: igllablen@gmail.com

Email: igllabksp@gmail.com

### 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					
	ng Protocol:	IS:3025 (P-1)					
	Packaging & Marking:	HDPE Carboy Marked "BP-1"					
	Drawn by:	Mr. Satveer Yadav & Team					
Environmental Condition:		Sunny Day					
Date of Receipt of Sample:		25.11.2019					
	is Duration:	25.11.2019 to 29.11.2019					
S.No	Test Parameters	Units Results Limits Test Method					
Α	Physical Parameters		54 				
1.	pH Value	M REAL	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		
В	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\*

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# INDIA GLYCOLS LIMITED, LABORATORY

(NABL ACCREDITED LABORATORY)

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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/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					
Samplin	ng 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		51 - 2011 - 20				
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	irameters					
3.	Chemical Oxygen Demand (COD)	mg/l	162.24	250	IS: 3025 (P-58) 2006		
4.	Biochemical Oxygen Demand	mg/l	26	30	IS: 3025 (P-44) 1993		
c	(BOD)@ 27°C for 3 Days	m a /1	< 4	10	IS: 3025(P-39)		
5	Oil & Grease	mg/l	>4	10	13, 5025(1-59)		

\*End of Report\*

Rechul Kymas ) Checked By)



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