

ANALYSIS REPORT

Client Details		Sample Details	
Name	M/s. Krantiagrani Dr. G. D. Bapu Lad S. S. K. Ltd.	Sample Code	GCI/EC/20/ST1
Address	Kundal, Tal-Palus, Dist-Sangali 416309.	Stack attached to	As In Table
		Location	Sugar Plant Boiler I
		Sampling Instrument	Stack Monitoring Kit
Sampling Done By	SAITECH, Kolhapur	Date of Sampling	24.12.2020
Analysis Starts on	26.12.2020	Sampling Method	Isokinetic Sampling, IS:11255,PART-1,2,3
Analysis Completion On	30.12.2020	Sample Received Date	26.12.2020

STACK MONITORING ANALYSIS RESULTS

Sr. No.	Description	Unit	Results	MPCB Limits	Reference Method
			Boiler I		
1.	Material of Stack	-	Concrete		
2.	Type of Stack	-	Round		
3.	Stack Height	mtr.	60		
4.	Stack Dimensions	mtr.	3.5		
5.	Differential Pressure	mmWG	1.7		
6.	Stack Area	m ²	9.622		
7.	Temperature of Flue Gas	°K	416		
8.	Velocity of Flue Gas	m/s	5.0		
9.	Volumetric Flow of Flue Gas	Nm ³ /hr	127404.4		
10.	Total Particulate matter (TPM)	mg/Nm ³	89.3	<150	IS 11255: Part 1
11.	Sulfur Dioxide (SO ₂)	mg/Nm ³	0.9	---	IS 11255: Part 2
12.	Sulfur Dioxide (SO ₂)	Kg/D	2.75	---	IS 11255: Part 2



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Report No:-GCI/V/Lab/EM-SP/20-21/Dec-00/0009

Date: 30.12.2020

ANALYSIS REPORT

Client Details		Sample Details	
Name	M/s. Krantiagrani Dr. G. D. Bapu Lad S. S. K. Ltd.	Sample Code	GCI/EC/20/ST2
Address	Kundal, Tal-Palus, Dist-Sangali 416309.	Stack attached to	As In Table
		Location	Distillery Plant Incineration Boiler Stack
		Sampling Instrument	Stack Monitoring Kit
Sampling Done By	SAITECH, Kolhapur	Date of Sampling	24.12.2020
Analysis Starts on	26.12.2020	Sampling Method	Isokinetic Sampling, IS:11255,PART-1,2,3
Analysis Completion On	30.12.2020	Sample Received Date	26.12.2020

STACK MONITORING ANALYSIS RESULTS

Sr. No.	Description	Unit	Results	MPCB Limits	Reference Method
			Boiler		
1.	Material of Stack	-	Concrete		
2.	Type of Stack	-	Round		
3.	Stack Height	mtr.	75		
4.	Stack Dimensions	mtr.	3.0		
5.	Differential Pressure	mmWG	2.7		
6.	Stack Area	m ²	7.069		
7.	Temperature of Flue Gas	°K	407		
8.	Velocity of Flue Gas	m/s	6.2		
9.	Volumetric Flow of Flue Gas	Nm ³ /hr	118867.2		
10.	Total Particulate matter (TPM)	mg/Nm ³	62.1	<150	IS 11255: Part 1
11.	Sulfur Dioxide (SO ₂)	mg/Nm ³	10.6	---	IS 11255: Part 2
12.	Sulfur Dioxide (SO ₂)	Kg/D	30.2	---	IS 11255: Part 2



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ANALYSIS REPORT

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Name	M/s. Krantiagrani Dr. G. D. Bapu Lad S. S. K. Ltd.	Sample Code	GCI/EC/20/AA1
Address	Kundal, Tal-Palus, Dist-Sangali 416309.	Location	Cane Yard (Weigh Bridge)
		Date of Sampling	24.12.2020
Sampling Done By	Saitech, Kolhapur	Date of Sample Received	26.12.2020
Analysis Starts On	26.12.2020	Sampling Instrument	RDS, FPS
Analysis Completion On	30.12.2020	Sampling Method	IS 5182 : Part 5 : 1975

AMBIENT AIR ANALYSIS RESULTS

Sr. No.	Parameters	Unit	Results	National Ambient Air Quality Standards (NAAQS) amended 2009	Reference Method
1	Particulate Matter (PM ₁₀)	µg/m ³	54.8	100	IS 5182 : Part 23 : 2006
2	Particulate Matter (PM _{2.5})	µg/m ³	21.5	60	NAAQS Guidelines
3	Sulphur dioxide (SO ₂)	µg/m ³	15.9	80	IS 5182 : Part 2 : 2001
4	Oxides of Nitrogen (NO _x)	µg/m ³	21.6	80	IS 5182 : Part 6 : 2006
5	Carbon Monoxide CO	mg/m ³	BDL	2.0	IS 5182 : Part 10 : 1999
6	Ozone as O ₃	µg/m ³	BDL	100	NAAQS Guidelines
7	Lead as Pb	µg/m ³	BDL	1.0	NAAQS Guidelines
8	Nickel as Ni	ng/m ³	BDL	20	NAAQS Guidelines
9	Arsenic as As	ng/m ³	BDL	6.0	NAAQS Guidelines
10	Ammonia as NH ₃	µg/m ³	BDL	400	NAAQS Guidelines
11	Benzene , C ₆ H ₆	µg/m ³	BDL	5.0	IS 5182 (Part 11):2006
12	Benzo (a) Pyrene(Bap)	ng/m ³	BDL	1.0	Gas Chromatography



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Name	M/s. Kranti Agrani Dr. G. D. Bapu Lad S. S. K. Ltd.	Sample Code	GCI/EC/20/AA2
Address	Kundal, Tal-Palus, Dist-Sangali 416309.	Location	Near Switch Yard
		Date of Sampling	24.12.2020
Sampling Done By	Saitech, Kolhapur	Date of Sample Received	26.12.2020
Analysis Starts On	26.12.2020	Sampling Instrument	RDS, FPS
Analysis Completion On	30.12.2020	Sampling Method	IS 5182 : Part 5 : 1975

AMBIENT AIR ANALYSIS RESULTS

Sr. No.	Parameters	Unit	Results	National Ambient Air Quality Standards (NAAQS) amended 2009	Reference Method
1	Particulate Matter (PM ₁₀)	µg/m ³	51.5	100	IS 5182 : Part 23 : 2006
2	Particulate Matter (PM _{2.5})	µg/m ³	20.9	60	NAAQS Guidelines
3	Sulphur dioxide (SO ₂)	µg/m ³	19.7	80	IS 5182 : Part 2 : 2001
4	Oxides of Nitrogen (NO _x)	µg/m ³	22.2	80	IS 5182 : Part 6 : 2006
5	Carbon Monoxide CO	mg/m ³	BDL	2.0	IS 5182 : Part 10 : 1999
6	Ozone as O ₃	µg/m ³	BDL	100	NAAQS Guidelines
7	Lead as Pb	µg/m ³	BDL	1.0	NAAQS Guidelines
8	Nickel as Ni	ng/m ³	BDL	20	NAAQS Guidelines
9	Arsenic as As	ng/m ³	BDL	6.0	NAAQS Guidelines
10	Ammonia as NH ₃	µg/m ³	BDL	400	NAAQS Guidelines
11	Benzene , C ₆ H ₆	µg/m ³	BDL	5.0	IS 5182 (Part 11):2006
12	Benzo (a) Pyrene(Bap)	ng/m ³	BDL	1.0	Gas Chromatography



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Client details		Sample Details	
Name	M/s. Kranti Agrani Dr. G. D. Bapu Lad S. S. K. Ltd.	Sample Code	GCI/EC/20/AA3
Address	Kundal, Tal-Palus, Dist-Sangali 416309.	Location	Sugar Plant Area
		Date of Sampling	24.12.2020
Sampling Done By	Saitech, Kolhapur	Date of Sample Received	26.12.2020
Analysis Starts On	26.12.2020	Sampling Instrument	RDS, FPS
Analysis Completion On	30.12.2020	Sampling Method	IS 5182 : Part 5 : 1975

AMBIENT AIR ANALYSIS RESULTS

Sr. No.	Parameters	Unit	Results	National Ambient Air Quality Standards (NAAQS) amended 2009	Reference Method
1	Particulate Matter (PM ₁₀)	µg/m ³	58.8	100	IS 5182 : Part 23 : 2006
2	Particulate Matter (PM _{2.5})	µg/m ³	22.3	60	NAAQS Guidelines
3	Sulphur dioxide (SO ₂)	µg/m ³	20.5	80	IS 5182 : Part 2 : 2001
4	Oxides of Nitrogen (NO _x)	µg/m ³	23.9	80	IS 5182 : Part 6 : 2006
5	Carbon Monoxide CO	mg/m ³	BDL	2.0	IS 5182 : Part 10 : 1999
6	Ozone as O ₃	µg/m ³	BDL	100	NAAQS Guidelines
7	Lead as Pb	µg/m ³	BDL	1.0	NAAQS Guidelines
8	Nickel as Ni	ng/m ³	BDL	20	NAAQS Guidelines
9	Arsenic as As	ng/m ³	BDL	6.0	NAAQS Guidelines
10	Ammonia as NH ₃	µg/m ³	BDL	400	NAAQS Guidelines
11	Benzene , C ₆ H ₆	µg/m ³	BDL	5.0	IS 5182 (Part 11):2006
12	Benzo (a) Pyrene(Bap)	ng/m ³	BDL	1.0	Gas Chromatography



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Client details		Sample Details	
Name	M/s. Kranti Agrani Dr. G. D. Bapu Lad S. S. K. Ltd.	Sample Code	GCI/EC/20/AA4
Address	Kundal, Tal-Palus, Dist-Sangali 416309.	Location	Co generation Unit
		Date of Sampling	24.12.2020
Sampling Done By	Saitech, Kolhapur	Date of Sample Received	26.12.2020
Analysis Starts On	26.12.2020	Sampling Instrument	RDS, FPS
Analysis Completion On	30.12.2020	Sampling Method	IS 5182 : Part 5 : 1975

AMBIENT AIR ANALYSIS RESULTS

Sr. No.	Parameters	Unit	Results	National Ambient Air Quality Standards (NAAQS) amended 2009	Reference Method
1	Particulate Matter (PM ₁₀)	µg/m ³	53.4	100	IS 5182 : Part 23 : 2006
2	Particulate Matter (PM _{2.5})	µg/m ³	18.5	60	NAAQS Guidelines
3	Sulphur dioxide (SO ₂)	µg/m ³	15.3	80	IS 5182 : Part 2 : 2001
4	Oxides of Nitrogen (NO _x)	µg/m ³	18.8	80	IS 5182 : Part 6 : 2006
5	Carbon Monoxide CO	mg/m ³	BDL	2.0	IS 5182 : Part 10 : 1999
6	Ozone as O ₃	µg/m ³	BDL	100	NAAQS Guidelines
7	Lead as Pb	µg/m ³	BDL	1.0	NAAQS Guidelines
8	Nickel as Ni	ng/m ³	BDL	20	NAAQS Guidelines
9	Arsenic as As	ng/m ³	BDL	6.0	NAAQS Guidelines
10	Ammonia as NH ₃	µg/m ³	BDL	400	NAAQS Guidelines
11	Benzene , C ₆ H ₆	µg/m ³	BDL	5.0	IS 5182 (Part 11):2006
12	Benzo (a) Pyrene(Bap)	ng/m ³	BDL	1.0	Gas Chromatography



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Name	M/s. Kranti Agrani Dr. G. D. Bapu Lad S. S. K. Ltd.	Sample Code	GCI/EC/20/AA5
Address	Kundal, Tal-Palus, Dist-Sangali 416309.	Location	Near C-Type Colony
		Date of Sampling	24.12.2020
Sampling Done By	Saitech, Kolhapur	Date of Sample Received	26.12.2020
Analysis Starts On	26.12.2020	Sampling Instrument	RDS, FPS
Analysis Completion On	30.12.2020	Sampling Method	IS 5182 : Part 5 : 1975

AMBIENT AIR ANALYSIS RESULTS

Sr. No.	Parameters	Unit	Results	National Ambient Air Quality Standards (NAAQS) amended 2009	Reference Method
1	Particulate Matter (PM ₁₀)	µg/m ³	50.7	100	IS 5182 : Part 23 : 2006
2	Particulate Matter (PM _{2.5})	µg/m ³	16.5	60	NAAQS Guidelines
3	Sulphur dioxide (SO ₂)	µg/m ³	13.9	80	IS 5182 : Part 2 : 2001
4	Oxides of Nitrogen (NO _x)	µg/m ³	15.8	80	IS 5182 : Part 6 : 2006
5	Carbon Monoxide CO	mg/m ³	BDL	2.0	IS 5182 : Part 10 : 1999
6	Ozone as O ₃	µg/m ³	BDL	100	NAAQS Guidelines
7	Lead as Pb	µg/m ³	BDL	1.0	NAAQS Guidelines
8	Nickel as Ni	ng/m ³	BDL	20	NAAQS Guidelines
9	Arsenic as As	ng/m ³	BDL	6.0	NAAQS Guidelines
10	Ammonia as NH ₃	µg/m ³	BDL	400	NAAQS Guidelines
11	Benzene , C ₆ H ₆	µg/m ³	BDL	5.0	IS 5182 (Part 11):2006
12	Benzo (a) Pyrene(Bap)	ng/m ³	BDL	1.0	Gas Chromatography



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Name	M/s. Krantiagrani Dr. G. D. Bapu Lad S.S. K. Ltd.	Sample Code	GCI/EC/20/AA6
Address	Kundal, Tal- Palus, Dist- Sangli 41 6309.	Location	Distillery Plant (Fermentation Section)
		Date of Sampling	25.12.2020
Sampling Done By	Saitech, Kolhapur	Date of Sample Received	26.12.2020
Analysis Starts On	26.12.2020	Sampling Instrument	RDS, FPS
Analysis Completion On	30.12.2020	Sampling Method	IS 5182 : Part 5 : 1975

AMBIENT AIR ANALYSIS RESULTS

Sr. No.	Parameters	Unit	Results	National Ambient Air Quality Standards (NAAQS) amended 2009	Reference Method
1	Particulate Matter (PM ₁₀)	µg/m ³	50.4	100	IS 5182 : Part 23 : 2006
2	Particulate Matter (PM _{2.5})	µg/m ³	13.6	60	NAAQS Guidelines
3	Sulphur dioxide (SO ₂)	µg/m ³	15.2	80	IS 5182 : Part 2 : 2001
4	Oxides of Nitrogen (NO _x)	µg/m ³	17.5	80	IS 5182 : Part 6 : 2006
5	Carbon Monoxide CO	mg/m ³	BDL	2.0	IS 5182 : Part 10 : 1999
6	Ozone as O ₃	µg/m ³	BDL	100	NAAQS Guidelines
7	Lead as Pb	µg/m ³	BDL	1.0	NAAQS Guidelines
8	Nickel as Ni	ng/m ³	BDL	20	NAAQS Guidelines
9	Arsenic as As	ng/m ³	BDL	6.0	NAAQS Guidelines
10	Ammonia as NH ₃	µg/m ³	BDL	400	NAAQS Guidelines
11	Benzene , C ₆ H ₆	µg/m ³	BDL	5.0	IS 5182 (Part 11):2006
12	Benzo (a) Pyrene(Bap)	ng/m ³	BDL	1.0	Gas Chromatography



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ANALYSIS REPORT

Client details		Sample Details	
Name	M/s. Krantiagrani Dr. G. D. Bapu Lad S. S. K. Ltd.	Sample Code	GCI/EC/20/AA7
Address	Kundal, Tal-Palus, Dist-Sangali 416309.	Location	Near Distillery Excise Office
		Date of Sampling	25.12.2020
Sampling Done By	Saitech, Kolhapur	Date of Sample Received	26.12.2020
Analysis Starts On	26.12.2020	Sampling Instrument	RDS, FPS
Analysis Completion On	30.12.2020	Sampling Method	IS 5182 : Part 5 : 1975

AMBIENT AIR ANALYSIS RESULTS

Sr. No.	Parameters	Unit	Results	National Ambient Air Quality Standards (NAAQS) amended 2009	Reference Method
1	Particulate Matter (PM ₁₀)	µg/m ³	49.8	100	IS 5182 : Part 23 : 2006
2	Particulate Matter (PM _{2.5})	µg/m ³	12.5	60	NAAQS Guidelines
3	Sulphur dioxide (SO ₂)	µg/m ³	11.6	80	IS 5182 : Part 2 : 2001
4	Oxides of Nitrogen (NO _x)	µg/m ³	14.2	80	IS 5182 : Part 6 : 2006
5	Carbon Monoxide CO	mg/m ³	BDL	2.0	IS 5182 : Part 10 : 1999
6	Ozone as O ₃	µg/m ³	BDL	100	NAAQS Guidelines
7	Lead as Pb	µg/m ³	BDL	1.0	NAAQS Guidelines
8	Nickel as Ni	ng/m ³	BDL	20	NAAQS Guidelines
9	Arsenic as As	ng/m ³	BDL	6.0	NAAQS Guidelines
10	Ammonia as NH ₃	µg/m ³	BDL	400	NAAQS Guidelines
11	Benzene , C ₆ H ₆	µg/m ³	BDL	5.0	IS 5182 (Part 11):2006
12	Benzo (a) Pyrene(Bap)	ng/m ³	BDL	1.0	Gas Chromatography



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Name	M/s. Kranti Agrani Dr. G. D. Bapu Lad S. S. K. Ltd.	Sample Code	GCI/EC/20/N1 to N13
Address	Kundal, Tal-Palus, Dist-Sangali 416309.	Location	As per table
		Quantity	NA
		Date of Measurement	24.12.2020
		Sampling Instrument	Sound level meter (LT/SL -4030)
Measurement Done By	Saitech, Kolhapur	Sampling Method	LT/SL -4030 inst. Manual

NOISE MONITORING RESULTS

Sr. No.	Location Name	Units	Results	
			Day Time	Night Time
1	Near Main Gate	dB (A)	68.4	55.2
2	Near on Lab Terrace	dB (A)	46.7	41.8
3	Near ETP	dB (A)	66.8	62.3
4	Mill House	dB (A)	70.3	69.6
5	Sugar House	dB (A)	70.1	68.5
6	Power House (Co-generation Unit)	dB (A)	73.5	72.2
7	Switch Yard	dB (A)	64.8	61.1
8	Boiling house	dB (A)	71.4	69.3
9	Near Distillery Main Gate	dB (A)	68.5	54.7
10	Near Ware House	dB (A)	57.2	53.3
11	Fermentation Section	dB (A)	63.9	60.5
12	Distillation Section	dB (A)	68.7	67.3
13	Incineration Boiler House	dB (A)	73.9	73.0

Limits: Maharashtra pollution Control Board has prescribed 75dB (A) as an upper limit of noise level during day time and 70dB (A) during night time.



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ANALYSIS REPORT

Client's Details		Sample Details	
Name	M/s. Krantiagrani Dr. G. D. Bapu Lad S. S. K. Ltd.	Sample code	GCI/EC/20/WW1
Address	Kundal, Tal-Palus, Dist-Sangali 416309.	Location	Untreated Effluent
		Date of Sampling	24.12.2020
Sampling Done by	SAITECH, Kolhapur	Quantity	2 lit.
Analysis Start on	26.12.2020	Sampling Method	----
Analysis Completion on	30.12.2020	Sample Received Date	26.12.2020

WASTE WATER ANALYSIS RESULTS

Sr. No.	Parameter	Unit	Results
1	pH	-	5.3
2	Total Suspended Solids (TSS)	mg/l	786
3	Total Dissolved Solids (TDS)	mg/l	623
4	Biochemical Oxygen Demand (BOD) @ 3 days 27°C	mg/l	1389
5	Chemical Oxygen Demand (COD)	mg/l	3750
6	Oil & Grease	mg/l	5.2
7	Chloride as Cl	mg/l	185
8	Sulphate as SO ₄	mg/l	142

BDL =Below Detectable Limit

DL =Detectable Limit



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Name	M/s. Krantiagrani Dr. G. D. Bapu Lad S. S. K. Ltd.	Sample code	GCI/EC/20/WW2
Address	Kundal, Tal-Palus, Dist-Sangali 416309.	Location	Treated Effluent
		Date of Sampling	24.12.2020
Sampling Done by	SAITECH, Kolhapur	Quantity	2 lit.
Analysis Start on	26.12.2020	Sampling Method	----
Analysis Completion on	30.12.2020	Sample Received Date	26.12.2020

WASTE WATER ANALYSIS RESULTS

Sr. No.	Parameter	Unit	Results	Limits
1	pH	-	7.7	5.5-9.0
2	Total Suspended Solids (TSS)	mg/l	61	100
3	Total Dissolved Solids (TDS)	mg/l	752	2100
4	Biochemical Oxygen Demand (BOD) @	mg/l	68	100
5	Chemical Oxygen Demand (COD)	mg/l	169	250
6	Oil & Grease	mg/l	ND	10
7	Chloride as Cl	mg/l	83	600
8	Sulphate as SO4	mg/l	113	1000

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Name	M/s. Krantiagrani Dr. G. D. Bapu Lad S. S. K. Ltd.	Sample code	GCI/EC/20/WW3
Address	Kundal, Tal-Palus, Dist-Sangali 416309.	Location	Spray Pond Overflow
		Date of Sampling	24.12.2020
Sampling Done by	SAITECH, Kolhapur	Quantity	2 lit.
Analysis Start on	26.12.2020	Sampling Method	----
Analysis Completion on	30.12.2020	Sample Received Date	26.12.2020

WASTE WATER ANALYSIS RESULTS

Sr. No.	Parameter	Unit	Results
1	pH	-	6.6
2	Total Suspended Solids (TSS)	mg/l	221
3	Total Dissolved Solids (TDS)	mg/l	937
4	Biochemical Oxygen Demand (BOD) @ 3 days 27°C	mg/l	57
5	Chemical Oxygen Demand (COD)	mg/l	214
6	Oil & Grease	mg/l	ND
7	Chloride as Cl	mg/l	131
8	Sulphate as SO ₄	mg/l	114

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Name	M/s. Krantiagrani Dr. G. D. Bapu Lad S. S. K. Ltd.	Sample code	GCI/EC/20/WW4
Address	Kundal, Tal-Palus, Dist-Sangali 416309.	Location	Condensate Water
		Date of Sampling	24.12.2020
Sampling Done by	SAITECH, Kolhapur	Quantity	2 lit.
Analysis Start on	26.12.2020	Sampling Method	----
Analysis Completion on	30.12.2020	Sample Received Date	26.12.2020

WASTE WATER ANALYSIS RESULTS

Sr. No.	Parameter	Unit	Results
1	pH	-	7.7
2	Total Suspended Solids (TSS)	mg/l	16
3	Total Dissolved Solids (TDS)	mg/l	110
4	Biochemical Oxygen Demand (BOD) @ 3 days 27°C	mg/l	46
5	Chemical Oxygen Demand (COD)	mg/l	211
6	Oil & Grease	mg/l	ND
7	Chloride as Cl	mg/l	38
8	Sulphate as SO ₄	mg/l	ND

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Authorized Signatory

- Analysis is subject to the condition In Which the Sample Is received at our Laboratory.
- Reports can not be used as an evidence anywhere including judiciary purpose without our prior permission.
- Sample will be retained fill one month from the date of sampling.