

Report No:-GCI/V/Lab/EM-SP/20-21/Nov-00/0008

Date: 28.11.2020

ANALYSIS REPORT

Client Details		Sample Details	
Name	M/s. Krantiagrani Dr. G. D. Bapu Lad S. S. K. Ltd.	Sample Code	GCI/EC/20/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	23.11.2020
Analysis Starts on	24.11.2020	Sampling Method	Isokinetic Sampling, IS:11255,PART-1,2,3
Analysis Completion On	28.11.2020	Sample Received Date	24.11.2020

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	413		
8.	Velocity of Flue Gas	m/s	5.0		
9.	Volumetric Flow of Flue Gas	Nm ³ /hr	127444.3		
10.	Total Particulate matter (TPM)	mg/Nm ³	86.6	<150	IS 11255: Part 1
11.	Sulfur Dioxide (SO ₂)	mg/Nm ³	0.8	---	IS 11255: Part 2
12.	Sulfur Dioxide (SO ₂)	Kg/D	2.44	---	IS 11255: Part 2



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Address	Kundal, Tal-Palus, Dist-Sangali 416309.	Location	Sugar Plant Area
		Date of Sampling	23.11.2020
Sampling Done By	Saitech, Kolhapur	Date of Sample Received	24.11.2020
Analysis Starts On	24.11.2020	Sampling Instrument	RDS, FPS
Analysis Completion On	28.11.2020	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	49.3	100	IS 5182 : Part 23 : 2006
2	Particulate Matter (PM _{2.5})	µg/m ³	15.8	60	NAAQS Guidelines
3	Sulphur dioxide (SO ₂)	µg/m ³	20.2	80	IS 5182 : Part 2 : 2001
4	Oxides of Nitrogen (NO _x)	µg/m ³	22.6	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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Address	Kundal, Tal-Palus, Dist-Sangali 416309.	Location	Near Main Gate
		Date of Sampling	23.11.2020
Sampling Done By	Saitech, Kolhapur	Date of Sample Received	24.11.2020
Analysis Starts On	24.11.2020	Sampling Instrument	RDS, FPS
Analysis Completion On	28.11.2020	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	56.7	100	IS 5182 : Part 23 : 2006
2	Particulate Matter (PM _{2.5})	µg/m ³	17.5	60	NAAQS Guidelines
3	Sulphur dioxide (SO ₂)	µg/m ³	21.6	80	IS 5182 : Part 2 : 2001
4	Oxides of Nitrogen (NO _x)	µg/m ³	24.2	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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Address	Kundal, Tal-Palus, Dist-Sangali 416309.	Location	Soil Lab Terace
		Date of Sampling	23.11.2020
Sampling Done By	Saitech, Kolhapur	Date of Sample Received	24.11.2020
Analysis Starts On	24.11.2020	Sampling Instrument	RDS, FPS
Analysis Completion On	28.11.2020	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	40.5	100	IS 5182 : Part 23 : 2006
2	Particulate Matter (PM _{2.5})	µg/m ³	13.2	60	NAAQS Guidelines
3	Sulphur dioxide (SO ₂)	µg/m ³	14.7	80	IS 5182 : Part 2 : 2001
4	Oxides of Nitrogen (NO _x)	µg/m ³	16.3	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/AA5
Address	Kundal, Tal-Palus,Dist-Sangali 41 6309.	Location	Near C-Type Colony
		Date of Sampling	23.11.2020
Sampling Done By	Saitech, Kolhapur	Date of Sample Received	24.11.2020
Analysis Starts On	24.11.2020	Sampling Instrument	RDS, FPS
Analysis Completion On	28.11.2020	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	42.4	100	IS 5182 : Part 23 : 2006
2	Particulate Matter (PM _{2.5})	µg/m ³	12.9	60	NAAQS Guidelines
3	Sulphur dioxide (SO ₂)	µg/m ³	14.1	80	IS 5182 : Part 2 : 2001
4	Oxides of Nitrogen (NO _x)	µg/m ³	16.0	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. Krantiagrani Dr. G. D. Bapu Lad S. S. K. Ltd.	Sample Code	GCI/EC/20/N1 to N10
Address	Kundal, Tal-Palus, Dist-Sangali 416309.	Location	As per table
		Quantity	NA
		Date of Measurement	23.11.2020
		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)	64.8	57.8
2	Near on Lab Terrace	dB (A)	56.2	43.5
3	Near ETP	dB (A)	58.7	56.2
4	Mill House	dB (A)	73.2	71.6
5	Sugar House	dB (A)	71.7	68.3
6	Switch Yard	dB (A)	68.4	67.4
7	Boiling house	dB (A)	72.6	69.2
8	C Type Colony	dB (A)	49.5	40.8
9	Near Administratoin Office	dB (A)	55.2	43.3

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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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	23.11.2020
Sampling Done by	SAITECH, Kolhapur	Quantity	2 lit.
Analysis Start on	24.11.2020	Sampling Method	----
Analysis Completion on	28.11.2020	Sample Received Date	24.11.2020

WASTE WATER ANALYSIS RESULTS

Sr. No.	Parameter	Unit	Results
1	pH	-	7.8
2	Total Suspended Solids (TSS)	mg/l	646
3	Total Dissolved Solids (TDS)	mg/l	853
4	Biochemical Oxygen Demand (BOD) @ 3 days 27°C	mg/l	1887
5	Chemical Oxygen Demand (COD)	mg/l	3723
6	Oil & Grease	mg/l	4.0
7	Chloride as Cl	mg/l	135
8	Sulphate as SO ₄	mg/l	127

BDL =Below Detectable Limit

DL =Detectable Limi



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Client's Details		Sample Details	
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	23.11.2020
Sampling Done by	SAITECH, Kolhapur	Quantity	2 lit.
Analysis Start on	24.11.2020	Sampling Method	----
Analysis Completion on	28.11.2020	Sample Received Date	24.11.2020

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	54	100
3	Total Dissolved Solids (TDS)	mg/l	357	2100
4	Biochemical Oxygen Demand (BOD) @ 3 days 27°C	mg/l	56	100
5	Chemical Oxygen Demand (COD)	mg/l	130	250
6	Oil & Grease	mg/l	ND	10
7	Chloride as Cl	mg/l	78	600
8	Sulphate as SO4	mg/l	86	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	23.11.2020
Sampling Done by	SAITECH, Kolhapur	Quantity	2 lit.
Analysis Start on	24.11.2020	Sampling Method	----
Analysis Completion on	28.11.2020	Sample Received Date	24.11.2020

WASTE WATER ANALYSIS RESULTS

Sr. No.	Parameter	Unit	Results
1	pH	-	6.8
2	Total Suspended Solids (TSS)	mg/l	90
3	Total Dissolved Solids (TDS)	mg/l	822
4	Biochemical Oxygen Demand (BOD) @ 3 days 27°C	mg/l	47
5	Chemical Oxygen Demand (COD)	mg/l	233
6	Oil & Grease	mg/l	ND
7	Chloride as Cl	mg/l	121
8	Sulphate as SO4	mg/l	113

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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	23.11.2020
Sampling Done by	SAITECH, Kolhapur	Quantity	2 lit.
Analysis Start on	24.11.2020	Sampling Method	----
Analysis Completion on	28.11.2020	Sample Received Date	24.11.2020

WASTE WATER ANALYSIS RESULTS

Sr. No.	Parameter	Unit	Results
1	pH	-	8.1
2	Total Suspended Solids (TSS)	mg/l	ND
3	Total Dissolved Solids (TDS)	mg/l	113
4	Biochemical Oxygen Demand (BOD) @ 3 days 27°C	mg/l	46
5	Chemical Oxygen Demand (COD)	mg/l	210
6	Oil & Grease	mg/l	ND
7	Chloride as Cl	mg/l	45
8	Sulphate as SO ₄	mg/l	ND

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