

TEST CERTIFICATE

Report No: GESEC/PRO/2019-20/01/515	Date of Report	14/01/2020
Client Name and Address: BHAIKAVNATH SUGAR WORKS LTD. Sonari (Distillery Division) Tq-Paranda, Dist-Osmanabad.	Date of Sampling	06/01/2020
	Start Date of Analysis	07/01/2020
	End Date of Analysis	14/01/2020
	Sample Details	Ambient Air
	Sample Location	Near Main Gate
	Time of Sampling	11:00
Sample Collected By	Green Envirosafe Engineers & Consultant Pvt. Ltd, Pune	

Ambient Air Analysis Report

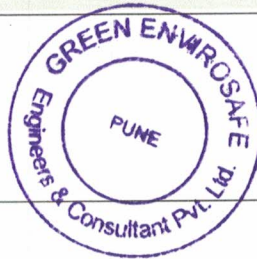
Sr. No.	Parameter	Result	Unit(s)	NAAQ Standards
1.	Ambient Temperature	30	°C	
2.	Dry Bulb Temperature	30	°C	
3.	Wet Bulb Temperature	25	°C	
4.	Relative Humidity	52	% RH	
5.	Sampling Duration	1440	Min	
6.	Sulphur Dioxide(SO ₂)	12.3	µg/M ³	≤ 80
7.	Oxides of Nitrogen(NO ₂)	16.9	µg/M ³	≤ 80
8.	Particulate Matter PM ₁₀	46.8	µg/M ³	≤ 100
9.	Particulate Matter PM _{2.5}	22.3	µg/M ³	≤ 60
10.	Carbon Monoxide (CO)	0.1	mg/M ³	≤ 04
11.	Ozone(O ₃)	BDL	µg/M ³	≤ 180
12.	Lead (Pb)	BDL	µg/M ³	≤ 1.0
13.	Ammonia(NH ₃)	BDL	µg/M ³	≤ 400
14.	Benzene(C ₆ H ₆)	BDL	µg/M ³	≤ 05
15.	Benzo(a)Pyrene(BaP)	BDL	ng/M ³	≤ 01
16.	Arsenic(As)	BDL	ng/M ³	≤ 06
17.	Nickel(Ni)	BDL	ng/M ³	≤ 20

Remark-

- All above results are within National Ambient Air Quality standards.
- BDL – Below Detectable Limit.

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- The report is refer only to the sample tested and not applies to the bulk.
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TEST CERTIFICATE

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Client Name and Address: BHAIRAVNATH SUGAR WORKS LTD. Sonari (Distillery Division) Tq-Paranda, Dist-Osmanabad.	Date of Sampling	06/01/2020
	Start Date of Analysis	07/01/2020
	End Date of Analysis	14/01/2020
	Sample Details	Ground Water
	Nature of sample	Liquid
Sample Collected By	Green EnviroSafe Engineers & Consultant Pvt. Ltd, Pune	

WATER ANALYSIS REPORT

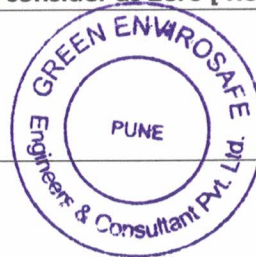
Sr. No.	Parameter	Result	Limits as per Is 10500:2012	Unit(s)	Standard Method
Physical Parameter					
1.	Color	Clear	<5	Hazen	IS : 3025 (Part 4):1983
2.	Turbidity	<1	<1	NTU	IS : 3025 (Part 10):1984
3.	TDS	176	<500	ppm	IS : 3025 (Part 16):1984
Chemical Parameter					
4.	pH	7.4	6.5 to 8.5	--	IS:3025 Part-11(R.A:2012)
5.	Total Hardness	98.0	<200	mg/lit	IS:3025 Part-21(R.A:2012)
6.	Total Alkalinity	54.0	<200	mg/lit	IS:3025 Part-23(R.A:2012)
7.	Sulphate	12.4	<200	mg/lit	IS:3025 Part-24(R.A:2012)
8.	Residual Chlorine	<0.1	<0.2	mg/lit	IS : 3025 (Part 26)1986
9.	Chloride	14.9	<250	mg/lit	IS:3025 Part-32(R.A:2014)
10.	Calcium (as Ca)	34.0	<75	mg/lit	IS:3025 Part-40(R.A:2012)
11.	Magnesium (as Mg)	7.62	<30	mg/lit	IS:3025 Part-46(R.A:2012)
Elemental Analysis					
12.	Iron as Fe	<0.05	<0.3	mg/lit	AAS Method
Microbiological Parameter					
13.	Total Coliform	<2	Absent	MPN/100ml	IS 1622:1981
14.	E.coli.	<2	Absent	per/100ml	IS 1622:1981

Remark(s):

- The above water sample is Comply with required limit as per 10500:2012.
- For Total Coliform & E.coli. <2 can be consider as Zero [Refer IS:1622 (R.A.1996), Table No.-4].

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TEST CERTIFICATE

Report No: GESEC/PRO/2019-20/01/517	Date of Report	14/01/2020
Client Name and Address: BHAIRAVNATH SUGAR WORKS LTD. Sonari (Distillery Division) Tq-Paranda, Dist-Osmanabad.	Date of Sampling	06/01/2020
	Start Date of Analysis	07/01/2020
	End Date of Analysis	14/01/2020
	Sample Location	DG SET 750-01 KVA
	Sample Details	Stack
	Time of Sampling	15:20
Sample Collected By	Green Envirosafe Engineers & Consultant Pvt. Ltd, Pune	

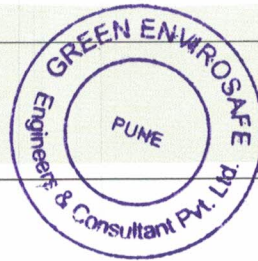
Source Emission Analysis Report

Sr. No.	Parameter	Result	Unit(s)	Limits As Per MPCB Consent
1.	Material of Stack	MS	--	
2.	Stack Height	12.0	Mtr.	
3.	Type of Stack	Round	--	
4.	Sampling Duration	30	Min.	
5.	Flue Gas Temperature	469	°K	
6.	Differential Pressure	5.7	mmWG	
7.	Velocity	9.8	M/s	
8.	Dimensions of Stack	0.1524	Mtr.	
9.	Stack Area	0.018	M ²	
10.	Gas Volume	409.48	NM ³ /Hr	
11.	Particulate Matter	68.0	mg/NM ³	≤ 150
12.	Sulphur Dioxide (SO ₂)	54.6	mg/NM ³	--
13.	Sulphur Dioxide (SO ₂)	0.54	Kg/day	N.S.
14.	Oxide of Nitrogen (NO _x)	46.5	mg/NM ³	N.S.

Remark(s):

- All above results are well within MPCB Limit.
- N.S.: - Not Specified

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TEST CERTIFICATE

Report No: GESEC/PRO/2019-20/01/518	Date of Report	14/01/2020
Client Name and Address: BHAIRAVNATH SUGAR WORKS LTD. Sonari (Distillery Division) Tq-Paranda, Dist-Osmanabad.	Date of Sampling	06/01/2020
	Start Date of Analysis	07/01/2020
	End Date of Analysis	14/01/2020
	Sample Location	DG SET 750-02 KVA
	Sample Details	Stack
	Time of Sampling	16:20
Sample Collected By	Green Envirosafe Engineers & Consultant Pvt. Ltd, Pune	

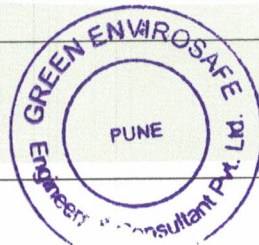
Source Emission Analysis Report

Sr. No.	Parameter	Result	Unit(s)	Limits As Per MPCB Consent
1.	Material of Stack	MS	--	
2.	Stack Height	12.0	Mtr.	
3.	Type of Stack	Round	--	
4.	Sampling Duration	30	Min.	
5.	Flue Gas Temperature	474	°K	
6.	Differential Pressure	5.8	mmWG	
7.	Velocity	11.87	M/s	
8.	Dimensions of Stack	0.1524	Mtr.	
9.	Stack Area	0.018	M ²	
10.	Gas Volume	410.87	NM ³ /Hr	
11.	Particulate Matter	64.0	mg/NM ³	≤ 150
12.	Sulphur Dioxide (SO ₂)	51.2	mg/NM ³	--
13.	Sulphur Dioxide (SO ₂)	0.50	Kg/day	N.S.
14.	Oxide of Nitrogen (NO _x)	42.5	mg/NM ³	N.S.

Remark(s):

- All above results are well within MPCB Limit.
- N.S.: - Not Specified

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