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Engineers & Consultant Pvt Ltd.

A-7/2/C-11, Capital City, Talwade - Chakan Road, Chakan MIDC, PH-IV,
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Mob+ 9545084620, 8421365421 CIN No. : U74900PN2013PTC149666
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TEST REPORT

Test Report No: -	**GESEC/PRO/AAQM/2024-25/02/854**	**Report Date**	18/02/2025
Sample ID: -	**GESEC/PRO/AAQM/2024-25/02/854**		

Name & Address of the Customer	**M/s. Athani Sugars Ltd., Bambawade Unit (Distillery Plant) Bambawade, Tal.: Shahuwadi, Dist.: Kolhapur**

Ambient Air Sample Details

Type	**Sampling Location**	**Sampling done by**
Ambient Air	Near Main Gate	Client

Sampling Time

Start Time	**Stop Time**	**Total Hrs.**
03:10 P.M.	11:10 PM	8hrs

Metrological Data/Environmental Conditions

Ambient Temperature °C	34.0	**Wet Bulb Temperature °C**	18.0
Dry Bulb Temperature °C	34.0	**Relative Humidity % RH**	19.0

Date of Sampling	**Sample Receipt Date**	**Analysis Start Date**	**Analysis End Date**
14/02/2025	15/02/2025	15/02/2025	18/02/2025

Name of Instrument	Fine Particulate Sampler	**Date Of Calibration**	26/04/2024
Instrument ID No.	FDS 2021-22/76/GESEC/Lab/Inst/76	**Due Date of Calibration**	25/04/2025

Parameters	**Method**	**Unit**	**NAAQ Standards**	**Result**
Particulate Matter (PM_{10})	CPCB Guidelines, Volume I ,36/2012-13, Page no. 11	$\mu g/m^3$	≤ 100	60.55
Particulate Matter ($PM_{2.5}$)	CPCB Guidelines, Volume I ,36/2012-13, Page no. 15	$\mu g/m^3$	≤ 60	22.09
Sulphur Dioxide (SO_2)	CPCB Guidelines, Volume I ,36/2012-13, Page no. 01	$\mu g/m^3$	≤ 80	17.34
Oxides of Nitrogen(NO_x)	CPCB Guidelines, Volume I ,36/2012-13, Page no. 07	$\mu g/m^3$	≤ 80	20.10
Carbon Monoxide (CO)	CPCB Guidelines, Volume II, 37/2012-13, Page no. 16	mg/m^3	≤ 04	00.31
Ozone(O_3)	CPCB Guidelines, Volume I ,36/2012-13, Page no. 31	$\mu g/m^3$	≤ 180	33.00
Lead (Pb)	MASA -822 3RD EDITION	µg/m3	≤1.0	BDL
Ammonia(NH_3)	CPCB Guidelines, Volume I ,36/2012-13, Page no. 35	$\mu g/m^3$	≤400	19.12
Benzene(C_6H_6)	EPA Method TO-17	$\mu g/m^3$	≤ 05	BDL
Benzo(a)Pyrene(BaP)	CPCB Guidelines, Volume I , 36/2012-13, Page no. 40	ng/m^3	≤ 01	BDL
Arsenic(As)	MASA -822 3RD EDITION	ng/m^3	≤ 06	BDL
Nickel(Ni)	MASA -822 3RD EDITION	ng/m^3	≤ 20	BDL

Remark

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

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Mr. Vinod Hande
(Technical Manager)
Reviewed & Authorized By

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TEST REPORT

Test Report No: -	**GESEC/PRO/AAQM/2024-25/02/855**	**Report Date**	18/02/2025
Sample ID: -	**GESEC/PRO/AAQM/2024-25/02/855**		
Name & Address of the Customer	**M/s. Athani Sugars Ltd., Bambawade Unit (Distillery Plant) Bambawade, Tal.: Shahuwadi, Dist.: Kolhapur**		

Ambient Air Sample Details

Type	Sampling Location	Sampling done by
Ambient Air	Near Store	Client

Sampling Time

Start Time	Stop Time	Total Hrs.
03:15 P.M.	11:15 PM	8hrs

Metrological Data/Environmental Conditions

Ambient Temperature °C	34.0	**Wet Bulb Temperature °C**	18.0
Dry Bulb Temperature °C	34.0	**Relative Humidity % RH**	19.0

Date of Sampling	Sample Receipt Date	Analysis Start Date	Analysis End Date
14/02/2025	15/02/2025	15/02/2025	18/02/2025

Name of Instrument	Fine Particulate Sampler	**Date Of Calibration**	26/04/2024
Instrument ID No.	FDS 2021-22/76/GESEC/Lab/Inst/76	**Due Date of Calibration**	25/04/2025

Parameters	Method	Unit	NAAQ Standards	Result
Particulate Matter (PM_{10})	CPCB Guidelines, Volume I ,36/2012-13, Page no. 11	$\mu g/m^3$	≤ 100	58.00
Particulate Matter ($PM_{2.5}$)	CPCB Guidelines, Volume I ,36/2012-13, Page no. 15	$\mu g/m^3$	≤ 60	21.02
Sulphur Dioxide (SO_2)	CPCB Guidelines, Volume I ,36/2012-13, Page no. 01	$\mu g/m^3$	≤ 80	11.55
Oxides of Nitrogen(NO_x)	CPCB Guidelines, Volume I ,36/2012-13, Page no. 07	$\mu g/m^3$	≤ 80	16.20
Carbon Monoxide (CO)	CPCB Guidelines, Volume I ,37/2012-13, Page no. 16	mg/m^3	≤ 04	00.30
Ozone(O_3)	CPCB Guidelines, Volume I ,36/2012-13, Page no. 31	$\mu g/m^3$	≤ 180	20.65
Lead (Pb)	MASA -822 3RD EDITION	µg/m3	≤1.0	BDL
Ammonia(NH_3)	CPCB Guidelines, Volume I ,36/2012-13, Page no. 35	$\mu g/m^3$	≤400	13.33
Benzene(C_6H_6)	EPA Method TO-17	$\mu g/m^3$	≤ 05	BDL
Benzo(a)Pyrene(BaP)	CPCB Guidelines, Volume I , 36/2012-13, Page no. 40	ng/m^3	≤ 01	BDL
Arsenic(As)	MASA -822 3RD EDITION	ng/m^3	≤ 06	BDL
Nickel(Ni)	MASA -822 3RD EDITION	ng/m^3	≤ 20	BDL

Remark

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

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Mr. Vinod Hande
(Technical Manager)
Reviewed & Authorized By

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TEST REPORT

Test Report No	**GESEC/PRO/ST/2024-25/02/856**	**Report Date**	18/02/2025
Sample ID -	**GESEC/PRO/ST/2024-25/02/856**		
Name & Address of the Customer	**M/s. Athani Sugars Ltd., Bambawade Unit (Distillery Plant)** **Bambawade, Tal.: Shahuwadi, Dist.: Kolhapur**		

Sample Details

Sample collection Date	Sample receipt Date	Analysis start Date	Analysis complete Date
14/02/2025	15/02/2025	15/02/2025	18/02/2025

Instrument Details

Name Of Instrument	Stack Sampler	**Date Of Calibration**	08/10/2024
Instrument ID. No.	5919/GESEC/LAB/INST/33	**Due Date of Calibration**	07/10/2025

Stack Details

Stack No/ID	Stack Attached to		Sampling done by
01	Distillery Boiler Stack (35 TPH)		Client
Shape	**Round**	**Fuel Used**	Spent wash + coal
Diameter/ Dimensions (m)	3.00	**Pressure (mm of WG)**	3.7
Height (m)	80		
Temperature (^{O}C)	146	**Velocity (m/s)**	7.7
Gas Volume (Nm^3/Hr)	139313.63		

Parameters	Method	Unit	MPCB Limit	Result
Total Particulate Matter (TPM)	EPA METHOD 17: 2017	mg/Nm^3	150	29.10
Sulphur Dioxide (SO_2)	EPA METHOD 06: 2017	mg/Nm^3	N.S	10.00
		Kg/day	N.S	33.43
Nitrogen Dioxide (NO_2)	EPA METHOD 07 E	mg/Nm^3	N.S	08.55
		Kg/day	N.S	28.58

Remarks-

- Maharashtra Pollution Control Board (MPCB) Limits TPM: 150 mg/Nm^3.
- N.S- Not Specified.

Mr. Vinod Hande
(Technical Manager)
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TEST REPORT

Test Report No: -	**GESEC/PRO/ANLM/2024-25/02/857**	**Report Date**	18/02/2025
Sample ID: -	**GESEC/PRO/ANLM/2024-25/02/857**		
Name & Address of the Customer	**M/s. Athani Sugars Ltd., Bambawade Unit (Distillery Plant) Bambawade, Tal.: Shahuwadi, Dist.: Kolhapur**		

Ambient Noise Sample Details

Type	Ambient Noise
Sampling done by	Client
Standard method	As Per IS: 9989:2020

Date of Sampling	Sample Receipt Date	Analysis Start Date	Analysis End Date
14/02/2025	-	-	-

Name Of Instrument	Sound Level Meter	**Date Of Calibration**	16/02/2024
Instrument ID No.	GESEC/LAB/NST/29	**Due Date of Calibration**	15/02/2025

Test Location	Unit	Average Noise Level Readings		CPCB Standards dB(A)
		Day (04:15 P.M.)	Night (10:30 P.M)	
Near Main Gate	dB(A)	57.0	54.0	75 & 70 dB (A)
Near Parking	dB(A)	57.2	56.0	
Near Administrator Building	dB(A)	60.1	58.3	
Near Boiler Stack	dB(A)	63.5	62.4	
Near CPU Unit	dB(A)	64.1	62.3	

Remark-

- Central Pollution Control Board (CPCB) has prescribed 75 dB (A) as an upper limit of Noise Level during the Day Time & 70 dB (A) during the Night Time.

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TEST REPORT

Test Report No: GESEC/PRO/WW/2024-25/02/858	**Report Date**	18/02/2025
Sample ID- GESEC/PRO/WW/2024-25/02/858		
Name and Address of the Customer: **M/s. Athani Sugars Ltd., Bambawade Unit (Distillery Plant)** **Bambawade, Tal.: Shahuwadi, Dist.: Kolhapur**	**Sample Details**	RAW SPENT WASH SAMPLE
	Type of Sample	Untreated
	Volume Of Sample	1 Lit Plastic Bottle+ 1 lit Glass Bottle
	Sample Status	Sealed
	Sample Collected By	Client
	Date of Sample Collection	14/02/2025
	Sample Receipt Date	15/02/2025
	Analysis start Date	15/02/2025
	Analysis End Date	18/02/2025

Parameters	Results	Unit	Standard Method
Temp	28.5	°C	IS 3025 (Part 9): 2019
Color	Brown	--	APHA 2120 B 24 th Edition:2023
pH	3.20	--	APHA 4500 H+ B 24 th Edition:2023
Total Solids	125110.11	mg/lit	APHA 2540 B 24 th Edition:2023
Total Dissolved Solids	114665.20	mg/lit	APHA 2540 C 24 th Edition:2023
Total Suspended Solids	1112.00	mg/lit	APHA 2540 D 24 th Edition:2023
Total Volatile Solids	27615.03	mg/lit	APHA 2540 E 24 th Edition:2023
Chemical Oxygen Demand	113564.10	mg/lit	US-EPA 410.4
Biochemical Oxygen Demand (27oC for 3 days)	37910.09	mg/lit	USEPA NERL 405.1
Chlorides as Cl-	22236.00	mg/lit	APHA 4500-Cl-B 24 th Edition:2023
Sulphates as SO_4	15255.85	mg/lit	APHA 4500-SO4 E 24 th Edition:2023
Oil and Grease	25.00	mg/lit	APHA 5520 D 24 th Edition:2023
Potassium	8564.40	mg/lit	APHA 3550 K B : 24 th Edition:2023
Total Kjeldahl Nitrogen	7598.33	mg/lit	IS 3025 (Part 34):2019

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TEST REPORT		
Test Report No: GESEC/PRO/WW/2024-25/02/859	Report Date	18/02/2025
Sample ID: GESEC/PRO/WW/2024-25/02/859	Sample Details	CONCENTRATED SPENT WASH
Name and Address of The Customer: M/s. Athani Sugars Ltd., Bambawade Unit (Distillery Plant) Bambawade, Tal.: Shahuwadi, Dist.: Kolhapur	Type of Sample	Untreated
	Volume Of Sample	1 Lit Plastic Bottle+ 1 lit Glass Bottle
	Sample Status	Sealed
	Sample Collected By	Client
	Date of Sample Collection	14/02/2025
	Sample Receipt Date	15/02/2025
	Analysis start Date	15/02/2025
	Analysis End Date	18/02/2025

Parameters	Results	Unit	Standard Method
Temp	28.3	°C	IS 3025 (Part 9): 2019
Color	Dark Brown	--	APHA 2120 B 24 th Edition:2023
pH	2.55	--	APHA 4500 H+ B 24 th Edition:2023
Total Solids	17955.32	mg/lit	APHA 2540 B 24 th Edition:2023
Total Dissolved Solids	17987.99	mg/lit	APHA 2540 C 24 th Edition:2023
Total Suspended Solids	1610.21	mg/lit	APHA 2540 D 24 th Edition:2023
Total Volatile Solids	3266.42	mg/lit	APHA 2540 E 24 th Edition:2023
Chemical Oxygen Demand	125935.40	mg/lit	US-EPA 410.4
Biochemical Oxygen Demand (27oC for 3 days)	41978.10	mg/lit	USEPA NERL 405.1
Chlorides as Cl-	25110.00	mg/lit	APHA 4500-Cl-B 24 th Edition:2023
Sulphates as SO_4	16910.22	mg/lit	APHA 4500-SO4 E 24 th Edition:2023
Oil and Grease	20.00	mg/lit	APHA 5520 D 24 th Edition:2023
Potassium	8512.47	mg/lit	APHA 3550 K B: 24 th Edition:2023
Total Kjeldahl Nitrogen	7713.01	mg/lit	IS 3025 (Part 34):2019

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TEST REPORT

Test Report No: GESEC/PRO/WW/2024-25/02/860	**Report Date**	18/02/2025
Sample ID: GESEC/PRO/WW/2024-25/02/860	**Sample Details**	CPU Inlet
Name and Address of the Customer: **M/s. Athani Sugars Ltd., Bambawade Unit (Distillery Plant)** **Bambawade, Tal.: Shahuwadi, Dist.: Kolhapur**	**Type of Sample**	Waste Water
	Volume Of Sample	1 Lit plastic bottle
	Sample Status	Sealed
	Sample Collected By	Client
	Date of Sample Collection	14/02/2025
	Sample Receipt Date	15/02/2025
	Analysis start Date	15/02/2025
	Analysis End Date	18/02/2025

Parameters	Results	Unit	Standard Method
pH	3.6	--	APHA 4500 H+ B 24 th Edition:2023
Suspended Solids (SS)	155.10	mg/lit	APHA 2540 D 24 th Edition:2023
Total Dissolved Solids (TDS)	2210.00	mg/lit	APHA 2540 C 24 th Edition:2023
Chemical Oxygen Demand (COD)	2800.00	mg/lit	USEPA 410.4
Biochemical Oxygen Demand (BOD)	933.33	mg/lit	USEPA NERL 405.1
Chlorides as Cl -	650.32	mg/lit	APHA 4500-Cl-B 24 th Edition:2023
Sulphates as SO_4^{--}	398.01	mg/lit	APHA 4500-SO4 E 24 th Edition:2023
Ammoniac Nitrogen	19.00	mg/lit	IS 3025 (Part 34):2019
Hydrogen Sulphide	BDL	mg/lit	IS 3025 (Part 29):2022

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TEST REPORT

Test Report No: GESEC/PRO/WW/2024-25/02/861	**Report Date**	18/02/2025
Sample ID: GESEC/PRO/WW/2024-25/02/861	**Sample Details**	CPU Outlet
Name and Address of the Customer: **M/s. Athani Sugars Ltd., Bambawade Unit (Distillery Plant)** **Bambawade, Tal.: Shahuwadi, Dist.: Kolhapur**	**Type of Sample**	Waste Water
	Volume Of Sample	1 Lit plastic bottle
	Sample Status	Sealed
	Sample Collected By	Client
	Date of Sample Collection	14/02/2025
	Sample Receipt Date	15/02/2025
	Analysis start Date	15/02/2025
	Analysis End Date	18/02/2025

Parameters	Results	MPCB LIMIT	Unit	Standard Method
pH	7.40	5.5 - 9.0	--	APHA 4500 H+ B 24 th Edition:2023
Suspended Solids (SS)	22.90	100	mg/lit	APHA 2540 D 24 th Edition:2023
Total Dissolved Solids (TDS)	512.2	2100	mg/lit	APHA 2540 C 24 th Edition:2023
Chemical Oxygen Demand (COD)	68.90	250	mg/lit	USEPA 410.4
Biochemical Oxygen Demand (BOD)	22.09	100	mg/lit	USEPA NERL 405.1
Chlorides as Cl -	210.11	600	mg/lit	APHA 4500-Cl-B 24 th Edition:2023
Sulphates as SO_4^{--}	111.05	1000	mg/lit	APHA 4500-SO4 E 24 th Edition:2023
Ammoniac Nitrogen	8.00	50	mg/lit	IS 3025 (Part 34):2019
Hydrogen Sulphide	BDL	--	mg/lit	IS 3025 (Part 29):2022

Remark:

- BDL – Below Detectable Limit.
- All parameters are within the MPCB limit.

Mr. Vinod Hande
(Technical Manager)
Reviewed & Authorized By

GREEN ENVIROSAFE Engineers & Consultant Pvt. Ltd. PUNE

END OF REPORT***

Terms and conditions

1. The report is refer only to the sample tested and not applies to the bulk.
2. The results shown in this test report may differ based on various factors including temperature, humidity, pressure, retention time etc.
3. The test report cannot be reproduced wholly or in part and cannot be used for promotional or publicity purpose without the written consent of laboratory, GESEC.
4. Samples will be retained for a period of seven (7) days after completion of analysis. Longer retention periods can be arranged, on request of the customer.
5. We strictly maintain the confidentiality of all test result of sample(s) collected by us/ supplied by customer and not revel to third party unless required by the statutory or legal requirement.
6. If on site their is no proper sampling location, Source or port available the results of testing are not challenge.
7. MoEF approved Lab by Govt. of India. till 28/02/2026 and NABL approved by Quality Council of India. till 28/02/2026.