

Recognised by Ministry of Environment and Forests (MoEF) / Central Pollution Control Board Govt. of India (CPCB)  
 and ISO/IEC 17025:2017 (NABL), ISO 9001:2015, ISO 45001 : 2018 and ISO 14001 : 2015 Certified Company

TEST REPORT				
Test Report No: -	GESEC/AAQM/2022-23/02/606		Report Date	27/02/2023
Sample ID: -	GESEC/AAQM/2022-23/02/606			
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		GESEC	
Sampling Time				
Start Time	Stop Time		Total Hrs.	
02:10 P.M.	10:10 PM		480 Min	
Metrological Data/Environmental Conditions				
Ambient Temperature °C	33.0	Wet Bulb Temperature °C	16.0	
Dry Bulb Temperature °C	33.0	Relative Humidity % RH	13.5	
Date of Sampling				
21/02/2023	Sample Receipt Date	23/02/2023	Analysis Start Date	27/02/2023
Analysis End Date				
24/02/2023				
Name of Instrument				
High Volume Sampler				
Date Of Calibration				
19/10/2022				
Calibration Certificate No.				
SSEC/FF/1528				
Due Date of Calibration				
18/10/2023				
Parameters	Method	Unit	NAAQ Standards	Result
Particulate Matter (PM <sub>10</sub> )	IS:5182 (PART 4):2019	µg/m <sup>3</sup>	100.00	62.36
Particulate Matter (PM <sub>2.5</sub> )	IS:5182 (PART 24):2019	µg/m <sup>3</sup>	60.00	24.81
Sulphur Dioxide (SO <sub>2</sub> )	IS:5182 (PART 2):2017	µg/m <sup>3</sup>	80.00	15.42
Oxides of Nitrogen(NO <sub>x</sub> )	IS:5182 (PART 6):2018	µg/m <sup>3</sup>	80.00	22.96
Carbon Monoxide (CO)	MASA-822 3rd Edition	mg/m <sup>3</sup>	04.00	00.35
Ozone(O <sub>3</sub> )	Method 411, Air Sampling and Analysis 3 <sup>rd</sup> Edition ,2013	µg/m <sup>3</sup>	180.00	32.10
Lead (Pb)	MASA-822 3rd Edition	µg/m <sup>3</sup>	01.00	BDL
Ammonia(NH <sub>3</sub> )	Method 401, Air Sampling and Analysis 3 <sup>rd</sup> Edition ,2013	µg/m <sup>3</sup>	400.00	12.86
Benzene(C <sub>6</sub> H <sub>6</sub> )	IS 5182 (Part 11) :2006 (RA 2017)	µg/m <sup>3</sup>	05.00	BDL
Benzo(a)Pyrene(BaP)	CPCB Manual Vol 1 2011	ng/m <sup>3</sup>	01.00	BDL
Arsenic(As)	MASA-822 3rd Edition	ng/m <sup>3</sup>	06.00	BDL
Nickel(Ni)	MASA-822 3rd Edition	ng/m <sup>3</sup>	20.00	BDL
Hydrocarbons	IS 5182 (Part 17):2019	µg/m <sup>3</sup>	--	21.59
<b>Remark</b> ➤ NAAQS - National Ambient Air Quality Standards, Central Pollution Control Board Notification, No.B – 29016 / 20 / 90 / PCI – I, New Delhi, the 18th November 2009. ➤ BDL – Below Detectable Limit.				

\*\*\*END OF REPORT\*\*\*




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

**Terms and conditions**

- The report is refer only to the sample tested and not applies to the bulk.
- The results shown in this test report may differ based on various factors including temperature, humidity, pressure, retention time etc.
- 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.
- 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.
- 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.
- MoEF approved Lab by Govt. of India. From date. 16/02/2022 to 29/02/2024.

Recognised by Ministry of Environment and Forests (MoEF) / Central Pollution Control Board Govt. of India (CPCB) and ISO/IEC 17025:2017 (NABL), ISO 9001:2015, ISO 45001 : 2018 and ISO 14001 : 2015 Certified Company

TEST REPORT				
Test Report No: -	GESEC/AAQM/2022-23/02/607		Report Date	27/02/2023
Sample ID: -	GESEC/AAQM/2022-23/02/607			
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		GESEC	
Sampling Time				
Start Time	Stop Time		Total Hrs.	
02:20 P.M.	10:20 PM		480 Min	
Metrological Data/Environmental Conditions				
Ambient Temperature °C	33.0	Wet Bulb Temperature °C	16.0	
Dry Bulb Temperature °C	33.0	Relative Humidity % RH	13.5	
Date of Sampling				
21/02/2023	Sample Receipt Date	23/02/2023	Analysis Start Date	24/02/2023
Analysis End Date				
27/02/2023				
Name of Instrument	Respirable Dust Sampler		Date Of Calibration	19/10/2022
Calibration Certificate No.	SSEC/FF/1525		Due Date of Calibration	18/10/2023
Parameters	Method	Unit	NAAQ Standards	Result
Particulate Matter (PM <sub>10</sub> )	IS:5182 (PART 4):2019	µg/m <sup>3</sup>	100.00	60.23
Particulate Matter (PM <sub>2.5</sub> )	IS:5182 (PART 24):2019	µg/m <sup>3</sup>	60.00	21.75
Sulphur Dioxide (SO <sub>2</sub> )	IS:5182 (PART 2):2017	µg/m <sup>3</sup>	80.00	13.08
Oxides of Nitrogen(NO <sub>x</sub> )	IS:5182 (PART 6):2018	µg/m <sup>3</sup>	80.00	18.62
Carbon Monoxide (CO)	MASA-822 3rd Edition	mg/m <sup>3</sup>	04.00	00.25
Ozone(O <sub>3</sub> )	Method 411, Air Sampling and Analysis 3 <sup>rd</sup> Edition ,2013	µg/m <sup>3</sup>	180.00	30.89
Lead (Pb)	MASA-822 3rd Edition	µg/m <sup>3</sup>	01.00	BDL
Ammonia(NH <sub>3</sub> )	Method 401, Air Sampling and Analysis 3 <sup>rd</sup> Edition ,2013	µg/m <sup>3</sup>	400.00	12.86
Benzene(C <sub>6</sub> H <sub>6</sub> )	IS 5182 (Part 11) :2006 (RA 2017)	µg/m <sup>3</sup>	05.00	BDL
Benzo(a)Pyrene(BaP)	CPCB Manual Vol 1 2011	ng/m <sup>3</sup>	01.00	BDL
Arsenic(As)	MASA-822 3rd Edition	ng/m <sup>3</sup>	06.00	BDL
Nickel(Ni)	MASA-822 3rd Edition	ng/m <sup>3</sup>	20.00	BDL
Hydrocarbons	IS 5182 (Part 17):2019	µg/m <sup>3</sup>	--	18.50
<b>Remark:-</b> NAAQS - National Ambient Air Quality Standards, Central Pollution Control Board Notification, No.B – 29016 / 20 / 90 / PCI – I, New Delhi, the 18th November 2009.				
<div>  <div> <b>Mr. Vinod Hande</b>  (Technical Manager)  Reviewed &amp; Authorized By </div> </div>				


\*\*\* END OF REPORT\*\*\*

#### Terms and conditions

- The report is refer only to the sample tested and not applies to the bulk.
- The results shown in this test report may differ based on various factors including temperature, humidity, pressure, retention time etc.
- 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.
- 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.
- 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.
- MoEF approved Lab by Govt. of India. From date. 16/02/2022 to 29/02/2024.



Recognised by Ministry of Environment and Forests (MoEF) / Central Pollution Control Board Govt. of India (CPCB) and ISO/IEC 17025:2017 (NABL), ISO 9001:2015, ISO 45001 : 2018 and ISO 14001 : 2015 Certified Company


TEST REPORT				
Test Report No	GESEC/ST/2022-23/02/608		Report Date	27/02/2023
Sample ID -	GESEC/ST/2022-23/02/608			
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	
21/02/2023	23/02/2023	24/02/2023	27/02/2023	
Instrument Details				
Name Of Instrument	Stack Monitoring Kit	Date Of Calibration	17/10/2022	
Calibration Certificate No.	SEC/TH/57	Due Date of Calibration	16/10/2023	
Stack Details				
Stack No/ID	Stack Attached to		Sampling done by	
01	Distillery Boiler Stack (35 TPH)		GESEC	
Shape	Round	Fuel Used	Bagasse	
Diameter/ Dimensions ( m)	3.00	Pressure (mm of WG)	3.00	
Height (m)	80			
Temperature (°C)	130	Velocity (m/s)	6.60	
Gas Volume (Nm³/Hr)	124374.62			
Parameters	Method	Unit	MPCB Limit	Result
Total Particulate Matter (TPM)	IS 11255 (Part 1) 2019	mg/Nm³	150	38.83
Sulphur Dioxide (SO₂)	IS 11255 (Part 2) 2019	mg/Nm³	-	28.50
		Kg/day	-	85.07
Nitrogen Dioxide (NO₂)	IS 11255 (Part 7) 2017	mg/Nm³	-	11.96
		Kg/day	-	35.70
Remarks- ➤ Maharashtra Pollution Control Board (SPCB) Limits: SPM: 150 mg/Nm³. ➤ Maharashtra Pollution Control Board (SPCB) Limits: SO₂: As per consent.				
<div> <div>  <div> <b>Mr. Vinod Hande</b>  (Technical Manager)  Reviewed &amp; Authorized By </div> </div> <div> <div> <div>Hande</div> </div> </div> </div>				

\*\*\*END OF REPORT\*\*\*

Terms and conditions

- The report is refer only to the sample tested and not applies to the bulk.
- The results shown in this test report may differ based on various factors including temperature, humidity, pressure, retention time etc.
- 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.
- 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.
- 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.
- MoEF approved Lab by Govt. of India. From date. 16/02/2022 to 29/02/2024.

Recognised by Ministry of Environment and Forests (MoEF) / Central Pollution Control Board Govt. of India (CPCB)  
 and ISO/IEC 17025:2017 (NABL), ISO 9001:2015, ISO 45001 : 2018 and ISO 14001 : 2015 Certified Company

TEST REPORT					
Test Report No: -		GESEC/ANLM/2022-23/02/609		Report Date	27/02/2023
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	GESEC				
Standard method	As Per IS: 9989:2020				
Date of Sampling	Sample Receipt Date	Analysis Start Date		Analysis End Date	
21/02/2023	---	---		---	
Name Of Instrument	Digital Sound Level Meter	Date Of Calibration		17/10/2022	
Calibration Certificate No.	SSEC/ME/266	Due Date of Calibration		16/10/2023	
Test Location	Unit	Average Noise Level Readings		CPCB Standards dB(A)	
		Day (04:.00 P.M.)	Night (10:30 P.M)		
Near Main Gate	dB(A)	62.3	61.1	75 & 70	
<b>Remark-</b> ➤ 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.					
<div style="text-align: right;">   <b>Mr. Vinod Hande</b>            (Technical Manager)            Reviewed &amp; Authorized By         </div>					

\*\*\*END OF REPORT\*\*\*


**Terms and conditions**

- The report is refer only to the sample tested and not applies to the bulk.
- The results shown in this test report may differ based on various factors including temperature, humidity, pressure, retention time etc.
- 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.
- 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.
- 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.
- MoEF approved Lab by Govt. of India. From date. 16/02/2022 to 29/02/2024.



Recognised by Ministry of Environment and Forests (MoEF) / Central Pollution Control Board Govt. of India (CPCB)  
 and ISO/IEC 17025:2017 (NABL), ISO 9001:2015, ISO 45001 : 2018 and ISO 14001 : 2015 Certified Company


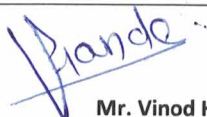
TEST REPORT				
Test Report No: -	GESEC/WNLM/2022-23/02/610		Report Date	27/02/2023
Name & Address of the Customer				
M/s. Athani Sugars Ltd., Bambawade Unit (Distillery Plant) Bambawade, Tal.: Shahwadi, Dist.: Kolhapur				
Work Zone Noise Sample Details				
Type	Work Zone Noise			
Sampling done by	GESEC			
Standard method	As Per IS: 9989:2020			
Date of Sampling	Sample Receipt Date	Analysis Start Date		Analysis End Date
21/02/2023	---	----		---
Name of Instrument	Sound Level Meter	Date of Calibration		07/10/2022
Calibration Certificate No.	SSEC/ME/259	Due Date of Calibration		06/10/2023
Test Location	Unit	Average Noise Level Readings		The Factories Act 1948, standards
		Day (04:30 P.M.)	Night (11:30 P.M.)	
Distillation Area	dB(A)	80.2	79.1	≤ 90
<b>Remark-</b> ➤ The Factories' Act, 1948 has prescribed Noise Level threshold limit for 8 hours' exposure as 90 dB (A).				
<div style="text-align: right;">   <b>Mr. Vinod Hande</b>            (Technical Manager)            Reviewed &amp; Authorized By         </div>				

\*\*\*END OF REPORT\*\*\*


**Terms and conditions**

- The report is refer only to the sample tested and not applies to the bulk.
- The results shown in this test report may differ based on various factors including temperature, humidity, pressure, retention time etc.
- 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.
- 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.
- 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.
- MoEF approved Lab by Govt. of India. From date. 16/02/2022 to 29/02/2024.

Recognised by Ministry of Environment and Forests (MoEF) / Central Pollution Control Board Govt. of India (CPCB) and ISO/IEC 17025:2017 (NABL), ISO 9001:2015, ISO 45001 : 2018 and ISO 14001 : 2015 Certified Company

TEST REPORT			
Test Report No: GESEC/WW/2022-23/02/611	Report Date	27/02/2023	
Sample ID- GESEC/WW/2022-23/02/611	Sample Details	RAW SPENT WASH SAMPLE	
<b>Name and Address Of the Customer:</b> <b>M/s. Athani Sugars Ltd., Bambawade Unit</b> <b>(Distillery Plant)</b> <b>Bambawade, Tal.: Shahuwadi, Dist.: Kolhapur</b>	Type of Sample	Untreated	
	Volume Of Sample	1 Lit Plastic Bottle+ 1 lit Glass Bottle	
	Sample Status	Sealed	
	Sample Collected By	GESEC	
	Date of Sample Collection	21/02/2023	
	Sample Receipt Date	23/02/2023	
	Analysis start Date	24/02/2023	
	Analysis End Date	27/02/2023	
Parameters	Results	Unit	Standard Method
Temp	28.0	°C	IS 3025 (Part 4) : 1983
Color	Brown	--	IS 3025 (Part 4) : 1983
pH	3.00	--	APHA 4500 H+,B 23rd Edition.2017
Total Solids	130125.69	mg/lit	APHA 2540 D 23 <sup>rd</sup> ED:2017
Total Dissolved Solids	129709.71	mg/lit	APHA 2540,C,23rd Edition, 2017
Total Suspended Solids	415.98	mg/lit	APHA 2540 D 23 <sup>rd</sup> ED:2017
Total Volatile Solids	32569.87	mg/lit	IS 3025 (Part 22): 2019
Chemical Oxygen Demand	125471.03	mg/lit	IS 3025 (Part 58) , 2019
Biochemical Oxygen Demand (27oC for 3 days)	69251.49	mg/lit	IS 3025 (Part 44), 2019
Chlorides as Cl-	25412.72	mg/lit	APHA 4500 Cl- B,23rd Edition, 2017
Sulphates as SO <sub>4</sub>	18956.20	mg/lit	APHA 3025 (Part 24) ;2019
Oil and Grease	28.50	mg/lit	IS 3025 (Part 39), 2019
Potassium	13625.44	mg/lit	APHA 4500 K, 23rd Edition.2017
Total Kjeldahl Nitrogen	9587.31	mg/lit	APHA 4500 No2 ,C 23rd Edition.2017
<div style="display: flex; justify-content: space-between; align-items: center;"> <div>  </div> <div style="text-align: right;">   <b>Mr. Vinod Hande</b>  <b>(Technical Manager)</b>  <b>Reviewed &amp; Authorized By</b> </div> </div>			

\*\*\*END OF REPORT\*\*\*

Page 1 of 1

## 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. MoEF approved Lab by Govt. of India. From date. 16/02/2022 to 29/02/2024.



Recognised by Ministry of Environment and Forests (MoEF) / Central Pollution Control Board Govt. of India (CPCB)  
 and ISO/IEC 17025:2017 (NABL), ISO 9001:2015, ISO 45001 : 2018 and ISO 14001 : 2015 Certified Company

TEST REPORT			
Test Report No: GESEC/WW/2022-23/02/612	Report Date	27/02/2023	
Sample ID : GESEC/WW/2022-23/02/612	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	GESEC	
	Date of Sample Collection	21/02/2023	
	Sample Receipt Date	23/02/2023	
	Analysis start Date	24/02/2023	
	Analysis End Date	27/02/2023	
Parameters	Results	Unit	Standard Method
Temp	29.0	oC	IS 3025 (Part 4) : 1983
Color	Dark Brown	--	IS 3025 (Part 4) : 1983
pH	2.25	--	APHA 4500 H+,B 23rd Edition.2017
Total Solids	249865.17	mg/lit	APHA 2540 D 23 <sup>rd</sup> ED:2017
Total Dissolved Solids	248990.55	mg/lit	APHA 2540,C,23rd Edition, 2017
Total Suspended Solids	874.62	mg/lit	APHA 2540 D 23rd ED:2017
Total Volatile Solids	10263.57	mg/lit	IS 3025 (Part 22): 2019
Chemical Oxygen Demand	230154.04	mg/lit	IS 3025 (Part 58) , 2019
Biochemical Oxygen Demand (27oC for 3 days)	113457.89	mg/lit	IS 3025 (Part 44), 2019
Chlorides as Cl-	55623.70	mg/lit	APHA 4500 Cl- B,23rd Edition, 2017
Sulphates as SO <sub>4</sub>	35621.41	mg/lit	APHA 3025 (Part 24) ;2019
Oil and Grease	805.67	mg/lit	IS 3025 (Part 39), 2019
Potassium	5261.34	mg/lit	APHA 4500 K, 23rd Edition.2017
Total Kjeldahl Nitrogen	13589.75	mg/lit	APHA 4500 No2 ,C 23rd Edition.2017
<div style="display: flex; justify-content: space-between; align-items: center;"> <div> <b>***END OF REPORT***</b> </div> <div style="text-align: center;">  </div> <div style="text-align: right;">   <b>Mr. Vinod Hande</b>  <b>(Technical Manager)</b>  <b>Reviewed &amp; Authorized By</b> </div> </div>			

**Terms and conditions**

- The report is refer only to the sample tested and not applies to the bulk.
- The results shown in this test report may differ based on various factors including temperature, humidity, pressure, retention time etc.
- 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.
- 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.
- 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.
- MoEF approved Lab by Govt. of India. From date. 16/02/2022 to 29/02/2024.

Recognised by Ministry of Environment and Forests (MoEF) / Central Pollution Control Board Govt. of India (CPCB) and ISO/IEC 17025:2017 (NABL), ISO 9001:2015, ISO 45001 : 2018 and ISO 14001 : 2015 Certified Company


TEST REPORT			
Test Report No: GESEC/WW/2022-23/02/613	Report Date	27/02/2023	
Sample ID : GESEC/WW/2022-23/02/613	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	GESEC	
	Date of Sample Collection	21/02/2023	
	Sample Receipt Date	23/02/2023	
	Analysis start Date	24/02/2023	
	Analysis End Date	27/02/2023	
Parameters	Results	Unit	Standard Method
pH	4.00	--	APHA 4500 H+,B 23rd Edition.2017
Suspended Solids (SS)	33.95	mg/lit	APHA 2540 D 23 <sup>rd</sup> ED:2017
Total Dissolved Solids (TDS)	1874.81	mg/lit	APHA 2540,C,23rd Edition, 2017
Chemical Oxygen Demand (COD)	2653.04	mg/lit	IS 3025 (Part 58) , 2019
Biochemical Oxygen Demand (BOD)	1142.97	mg/lit	IS 3025 (Part 44), 2019
Chlorides as Cl -	82.40	mg/lit	APHA 4500 Cl- B,23rd Edition, 2017
Sulphates as SO <sub>4</sub> <sup>2-</sup>	59.68	mg/lit	APHA 3025 (Part 24) ;2019
Ammoniac Nitrogen	13.25	mg/lit	APHA 4500 N-NH <sub>3</sub> ,C 23rd Edition.2017
Methane	BDL	mg/lit	USEPA 524.2
Hydrogen Sulphide	BDL	mg/lit	IS 3025 (Part 29), 2019
<div> <div>  <div> <b>GREEN ENVIROSAFE</b>  PUNE  Engineers &amp; Consultant Pvt. Ltd. </div> </div> <div>  <div> <b>Mr. Vinod Hande</b>  (Technical Manager)  Reviewed &amp; Authorized By </div> </div> </div>			

\*\*\*END OF REPORT\*\*\*

- Terms and conditions**
- The report is refer only to the sample tested and not applies to the bulk.
  - The results shown in this test report may differ based on various factors including temperature, humidity, pressure, retention time etc.
  - 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.
  - 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.
  - 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.
  - MoEF approved Lab by Govt. of India. From date. 16/02/2022 to 29/02/2024.



Recognised by Ministry of Environment and Forests (MoEF) / Central Pollution Control Board Govt. of India (CPCB) and ISO/IEC 17025:2017 (NABL), ISO 9001:2015, ISO 45001 : 2018 and ISO 14001 : 2015 Certified Company

TEST REPORT				
Test Report No: GESEC/WW/2022-23/02/614		Report Date		27/02/2023
Sample ID : GESEC/WW/2022-23/02/614		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		GESEC
		Date of Sample Collection		21/02/2023
		Sample Receipt Date		23/02/2023
		Analysis start Date		24/02/2023
		Analysis End Date		27/02/2023
Parameters	Results	SPCB LIMIT	Unit	Standard Method
pH	7.29	5.5 - 9.0	--	APHA 4500 H+,B 23rd Edition.2017
Suspended Solids (SS)	16.24	100	mg/lit	APHA 2540 D 23 <sup>rd</sup> ED:2017
Total Dissolved Solids (TDS)	325.87	2100	mg/lit	APHA 2540,C,23rd Edition, 2017
Chemical Oxygen Demand (COD)	36.52	250	mg/lit	IS 3025 (Part 58) , 2019
Biochemical Oxygen Demand (BOD)	14.77	100	mg/lit	IS 3025 (Part 44), 2019
Chlorides as Cl -	45.10	600	mg/lit	APHA 4500 Cl- B,23rd Edition, 2017
Sulphates as SO <sub>4</sub> <sup>-</sup>	29.83	1000	mg/lit	APHA 3025 (Part 24) ;2019
Ammoniac Nitrogen	BDL	50	mg/lit	APHA 4500 N-NH <sub>3</sub> ,C 23rd Edition.2017
Methane	BDL	--	mg/lit	USEPA 524.2
Hydrogen Sulphide	BDL	--	mg/lit	IS 3025 (Part 29), 2019
<b>Remark:</b> ➤ BDL – Below Detectable Limit. ➤ All parameters are within the MPCB limit.				
<div> <div>  <div> <b>Mr. Vinod Hande</b>                          (Technical Manager)                          Reviewed &amp; Authorized By                     </div> </div> </div>				


\*\*\*END OF REPORT\*\*\*

Terms and conditions

- The report is refer only to the sample tested and not applies to the bulk.
- The results shown in this test report may differ based on various factors including temperature, humidity, pressure, retention time etc.
- 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.
- 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.
- 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.
- MoEF approved Lab by Govt. of India. From date. 16/02/2022 to 29/02/2024.

Recognised by Ministry of Environment and Forests (MoEF) / Central Pollution Control Board Govt. of India (CPCB)  
 and ISO/IEC 17025:2017 (NABL), ISO 9001:2015, ISO 45001 : 2018 and ISO 14001 : 2015 Certified Company

**TEST REPORT**

<b>Test Report No. -</b>	<b>GESEC/AAQM/2022-23/03/421</b>	<b>Report Date</b>	<b>25/03/2023</b>	
<b>Sample ID: -</b>	<b>GESEC/AAQM/2022-23/03/421</b>			
<b>Name &amp; Address of the Customer</b>	<b>M/s. Athani Sugars Ltd., Bambawade Unit (Distillery Plant) Bambawade, Tal.: Shahuwadi, Dist.: Kolhapur</b>			
<b>Ambient Air Sample Details</b>				
<b>Type</b>	<b>Sampling Location</b>		<b>Sampling done by</b>	
<b>Ambient Air</b>	Near Main Gate		GESEC	
<b>Sampling Time</b>				
<b>Start Time</b>	<b>Stop Time</b>		<b>Total Hrs.</b>	
10:00 A.M.	06:00 PM		480 Min	
<b>Meteorological Data/Environmental Conditions</b>				
<b>Ambient Temperature °C</b>	25.0	<b>Wet Bulb Temperature °C</b>	18.0	
<b>Dry Bulb Temperature °C</b>	25.0	<b>Relative Humidity % RH</b>	50.3	
<b>Date of Sampling</b>				
20/03/2023	<b>Sample Receipt Date</b>	21/03/2023	<b>Analysis Start Date</b>	25/03/2023
<b>Name of Instrument</b>				
High Volume Sampler		<b>Date Of Calibration</b>	19/10/2022	
<b>Calibration Certificate No.</b>		SSEC/FF/1528	<b>Due Date of Calibration</b>	18/10/2023
<b>Parameters</b>	<b>Method</b>	<b>Unit</b>	<b>NAAQ Standards</b>	<b>Result</b>
Particulate Matter (PM <sub>10</sub> )	IS:5182 (PART 4):2019	µg/m <sup>3</sup>	100.00	61.86
Particulate Matter (PM <sub>2.5</sub> )	IS:5182 (PART 24):2019	µg/m <sup>3</sup>	60.00	22.95
Sulphur Dioxide (SO <sub>2</sub> )	IS:5182 (PART 2):2017	µg/m <sup>3</sup>	80.00	14.23
Oxides of Nitrogen(NO <sub>x</sub> )	IS:5182 (PART 6):2018	µg/m <sup>3</sup>	80.00	20.78
Carbon Monoxide (CO)	MASA-822 3rd Edition	mg/m <sup>3</sup>	04.00	00.40
Ozone(O <sub>3</sub> )	Method 411, Air Sampling and Analysis 3 <sup>rd</sup> Edition, 2013	µg/m <sup>3</sup>	180.00	29.12
Lead (Pb)	MASA-822 3rd Edition	µg/m <sup>3</sup>	01.00	BDL
Ammonia(NH <sub>3</sub> )	Method 401, Air Sampling and Analysis 3 <sup>rd</sup> Edition, 2013	µg/m <sup>3</sup>	400.00	10.55
Benzene(C <sub>6</sub> H <sub>6</sub> )	IS 5182 (Part 11) :2006 (RA 2017)	µg/m <sup>3</sup>	05.00	BDL
Benzo(a)Pyrene(BaP)	CPCB Manual Vol 1 2011	ng/m <sup>3</sup>	01.00	BDL
Arsenic(As)	MASA-822 3rd Edition	ng/m <sup>3</sup>	06.00	BDL
Nickel(Ni)	MASA-822 3rd Edition	ng/m <sup>3</sup>	20.00	BDL
Hydrocarbons	IS 5182 (Part 17):2019	µg/m <sup>3</sup>	--	20.69
<b>Remark</b>				
➤ NAAQS - National Ambient Air Quality Standards, Central Pollution Control Board Notification, No.B – 29016 / 20 / 90 / PCI – I, New Delhi, the 18th November 2009.				
➤ BDL – Below Detectable Limit.				
		 <b>Mr. Vinod Hande</b> <b>(Technical Manager)</b> <b>Reviewed &amp; Authorized By</b>		

\*\*\*END OF REPORT


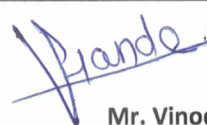
**Terms and conditions**

- The report is refer only to the sample tested and not applies to the bulk.
- The results shown in this test report may differ based on various factors including temperature, humidity, pressure, retention time etc.
- 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.





Recognised by Ministry of Environment and Forests (MoEF) / Central Pollution Control Board Govt. of India (CPCB) and ISO/IEC 17025:2017 (NABL), ISO 9001:2015, ISO 45001 : 2018 and ISO 14001 : 2015 Certified Company

TEST REPORT				
Test Report No: -	GESEC/AAQM/2022-23/03/422		Report Date	25/03/2023
Sample ID: -	GESEC/AAQM/2022-23/03/422			
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		GESEC	
Sampling Time				
Start Time	Stop Time		Total Hrs.	
10:10 A.M.	06:10 PM		480 Min	
Meteorological Data/Environmental Conditions				
Ambient Temperature °C	25.0	Wet Bulb Temperature °C	18.0	
Dry Bulb Temperature °C	25.0	Relative Humidity % RH	50.3	
Date of Sampling	Sample Receipt Date	Analysis Start Date	Analysis End Date	
20/03/2023	21/03/2023	21/03/2023	25/03/2023	
Name of Instrument	Respirable Dust Sampler	Date Of Calibration	19/10/2022	
Calibration Certificate No.	SSEC/FF/1525	Due Date of Calibration	18/10/2023	
Parameters	Method	Unit	NAAQ Standards	Result
Particulate Matter (PM <sub>10</sub> )	IS:5182 (PART 4):2019	µg/m <sup>3</sup>	100.00	60.83
Particulate Matter (PM <sub>2.5</sub> )	IS:5182 (PART 24):2019	µg/m <sup>3</sup>	60.00	21.47
Sulphur Dioxide (SO <sub>2</sub> )	IS:5182 (PART 2):2017	µg/m <sup>3</sup>	80.00	13.59
Oxides of Nitrogen(NO <sub>x</sub> )	IS:5182 (PART 6):2018	µg/m <sup>3</sup>	80.00	18.03
Carbon Monoxide (CO)	MASA-822 3rd Edition	mg/m <sup>3</sup>	04.00	00.39
Ozone(O <sub>3</sub> )	Method 411, Air Sampling and Analysis 3 <sup>rd</sup> Edition ,2013	µg/m <sup>3</sup>	180.00	24.12
Lead (Pb)	MASA-822 3rd Edition	µg/m <sup>3</sup>	01.00	BDL
Ammonia(NH <sub>3</sub> )	Method 401, Air Sampling and Analysis 3 <sup>rd</sup> Edition ,2013	µg/m <sup>3</sup>	400.00	8.46
Benzene(C <sub>6</sub> H <sub>6</sub> )	IS 5182 (Part 11) :2006 (RA 2017)	µg/m <sup>3</sup>	05.00	BDL
Benzo(a)Pyrene(BaP)	CPCB Manual Vol 1 2011	ng/m <sup>3</sup>	01.00	BDL
Arsenic(As)	MASA-822 3rd Edition	ng/m <sup>3</sup>	06.00	BDL
Nickel(Ni)	MASA-822 3rd Edition	ng/m <sup>3</sup>	20.00	BDL
Hydrocarbons	IS 5182 (Part 17):2019	µg/m <sup>3</sup>	--	18.45
<b>Remark:-</b> ➤ NAAQS - National Ambient Air Quality Standards, Central Pollution Control Board Notification, No.B – 29016 / 20 / 90 / PCI – I, New Delhi, the 18th November 2009.				
<div style="display: flex; justify-content: space-between; align-items: center;"> <div style="text-align: center;">  <p>GREEN ENVIROSAFE PUNE Engineers &amp; Consultant Pvt. Ltd.</p> </div> <div style="text-align: right;">   <b>Mr. Vinod Hande</b>            (Technical Manager)            Reviewed &amp; Authorized By         </div> </div>				


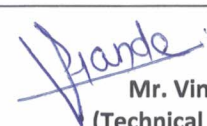
\*\*\* END OF REPORT\*\*\*

**Terms and conditions**

- The report is refer only to the sample tested and not applies to the bulk.
- The results shown in this test report may differ based on various factors including temperature, humidity, pressure, retention time etc.
- 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



Recognised by Ministry of Environment and Forests (MoEF) / Central Pollution Control Board Govt. of India (CPCB)  
and ISO/IEC 17025:2017 (NABL), ISO 9001:2015, ISO 45001 : 2018 and ISO 14001 : 2015 Certified Company

TEST REPORT				
Test Report No	GESEC/ST/2022-23/03/423		Report Date	25/03/2023
Sample ID -	GESEC/ST/2022-23/03/423			
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	
20/03/2023	21/03/2023	21/03/2023	25/03/2023	
Instrument Details				
Name Of Instrument	Stack Monitoring Kit	Date Of Calibration	17/10/2022	
Calibration Certificate No.	SEC/TH/57	Due Date of Calibration	16/10/2023	
Stack Details				
Stack No/ID	Stack Attached to		Sampling done by	
01	Distillery Boiler Stack (35 TPH)		GESEC	
Shape	Round	Fuel Used	Bagasse	
Diameter/ Dimensions ( m)	3.00	Pressure (mm of WG)	4.00	
Height (m)	80			
Temperature (°C)	135	Velocity (m/s)	7.67	
Gas Volume (Nm <sup>3</sup> /Hr)	142732.74			
Parameters	Method	Unit	MPCB Limit	Result
Total Particulate Matter (TPM)	IS 11255 (Part 1) 2019	mg/Nm <sup>3</sup>	150	35.68
Sulphur Dioxide (SO <sub>2</sub> )	IS 11255 (Part 2) 2019	mg/Nm <sup>3</sup>	-	24.10
		Kg/day	-	82.56
Nitrogen Dioxide (NO <sub>2</sub> )	IS 11255 (Part 7) 2017	mg/Nm <sup>3</sup>	-	10.94
		Kg/day	-	37.48
<b>Remarks-</b> ➤ Maharashtra Pollution Control Board (SPCB) Limits: SPM: 150 mg/Nm <sup>3</sup> . ➤ Maharashtra Pollution Control Board (SPCB) Limits: SO <sub>2</sub> : As per consent.				
<div style="display: flex; justify-content: space-between; align-items: center;"> <div style="text-align: center;">  <p>GREEN ENVIROSAFE PUNE Engineers &amp; Consultant Pvt. Ltd.</p> </div> <div style="text-align: right;">   <b>Mr. Vinod Hande</b>            (Technical Manager)            Reviewed &amp; Authorized By         </div> </div>				

\*\*\*END OF REPORT\*\*\*

**Terms and conditions**

- The report is refer only to the sample tested and not applies to the bulk.
- The results shown in this test report may differ based on various factors including temperature, humidity, pressure, retention time etc.
- 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



**GREEN ENVIROSAFE**


Engineers &amp; Consultant Pvt Ltd.

A-7/2/C-11, Capital City, Talwade - Chakan Road, Chakan MIDC, PH-IV, Village Nighoje, Tal. Khed,

Dist. Pune-410501. Mob+ 9545084620, 8421365421 CIN No. : U74900PN2013PTC149666

E-mail : envirosafetyeng@gmail.com, gesec12@gmail.com | www.greenenvirosafe.co.in

Recognised by Ministry of Environment and Forests (MoEF) / Central Pollution Control Board Govt. of India (CPCB)  
and ISO/IEC 17025:2017 (NABL), ISO 9001:2015, ISO 45001 : 2018 and ISO 14001 : 2015 Certified Company

TEST REPORT				
Test Report No: -	GESEC/ANLM/2022-23/03/424		Report Date	25/03/2023
Sample ID: -	GESEC/ANLM/2022-23/03/424			
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	GESEC			
Standard method	As Per IS: 9989:2020			
Date of Sampling	Sample Receipt Date	Analysis Start Date		Analysis End Date
20/03/2023	---	--		--
Name Of Instrument	Digital Sound Level Meter	Date Of Calibration		17/10/2022
Calibration Certificate No.	SSEC/ME/266	Due Date of Calibration		16/10/2023
Test Location	Unit	Average Noise Level Readings		CPCB Standards dB(A)
		Day (12:00 P.M.)	Night (10:45 P.M.)	
		Near Main Gate	61.3	
	dB(A)	75.0	70.0	75 & 70
<b>Remark-</b> ➤ 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.				
<div style="text-align: right;">   <b>Mr. Vinod Hande</b>  <b>(Technical Manager)</b>  <b>Reviewed &amp; Authorized By</b> </div>				

\*\*\*END OF REPORT\*\*\*

**Terms and conditions**

- The report is refer only to the sample tested and not applies to the bulk.
- The results shown in this test report may differ based on various factors including temperature, humidity, pressure, retention time etc.
- 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

**GREEN ENVIROSAFE**

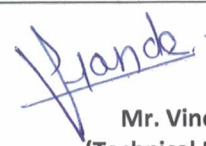

Engineers &amp; Consultant Pvt Ltd.

A-7/2/C-11, Capital City, Talwade - Chakan Road, Chakan MIDC, PH-IV, Village Nighoje, Tal. Khed,

Dist. Pune-410501. Mob+ 9545084620, 8421365421 CIN No. : U74900PN2013PTC149666

E-mail : environsafetyeng@gmail.com, gesecc12@gmail.com | www.greenenvirosafe.co.in

Recognised by Ministry of Environment and Forests (MoEF) / Central Pollution Control Board Govt. of India (CPCB)  
and ISO/IEC 17025:2017 (NABL), ISO 9001:2015, ISO 45001 : 2018 and ISO 14001 : 2015 Certified Company

TEST REPORT				
Test Report No: -	GESEC/WNLM/2022-23/03/425		Report Date	25/03/2023
Sample ID: -	GESEC/WNLM/2022-23/03/425			
Name & Address of the Customer	M/s. Athani Sugars Ltd., Bambawade Unit (Distillery Plant) Bambawade, Tal.: Shahuwadi, Dist.: Kolhapur			
Work Zone Noise Sample Details				
Type	Work Zone Noise			
Sampling done by	GESEC			
Standard method	As Per IS: 9989:2020			
Date of Sampling	Sample Receipt Date	Analysis Start Date		Analysis End Date
20/03/2023	---	---		---
Name of Instrument	Sound Level Meter	Date of Calibration		07/10/2022
Calibration Certificate No.	SSEC/ME/259	Due Date of Calibration		06/10/2023
Test Location	Unit	Average Noise Level Readings		The Factories Act 1948, standards
		Day (12:30 P.M.)	Night (11:15 P.M.)	
Distillation Area	dB(A)	78.6	76.2	≤ 90
Remark-				
➤ The Factories' Act, 1948 has prescribed Noise Level threshold limit for 8 hours' exposure as 90 dB (A).				
<div><div> Mr. Vinod Hande (Technical Manager) Reviewed &amp; Authorized By</div><div></div></div>				

\*\*\*END OF REPORT\*\*\*


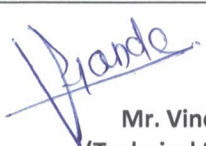
## Terms and conditions

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





Recognised by Ministry of Environment and Forests (MoEF) / Central Pollution Control Board Govt. of India (CPCB)  
and ISO/IEC 17025:2017 (NABL), ISO 9001:2015, ISO 45001 : 2018 and ISO 14001 : 2015 Certified Company

TEST REPORT			
Test Report No: GESEC/WW/2022-23/03/426	Report Date	25/03/2023	
Sample ID- GESEC/WW/2022-23/03/426			
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	GESEC	
	Date of Sample Collection	20/03/2023	
	Sample Receipt Date	21/03/2023	
	Analysis start Date	21/03/2023	
	Analysis End Date	25/03/2023	
Parameters	Results	Unit	Standard Method
Temp	28.5	°C	IS 3025 (Part 4) : 1983
Color	Brown	--	IS 3025 (Part 4) : 1983
pH	2.85	--	APHA 4500 H+,B 23rd Edition.2017
Total Solids	134627.89	mg/lit	APHA 2540 D 23 <sup>rd</sup> ED:2017
Total Dissolved Solids	134106.42	mg/lit	APHA 2540,C,23rd Edition, 2017
Total Suspended Solids	521.47	mg/lit	APHA 2540 D 23 <sup>rd</sup> ED:2017
Total Volatile Solids	34512.90	mg/lit	IS 3025 (Part 22): 2019
Chemical Oxygen Demand	135647.12	mg/lit	IS 3025 (Part 58) , 2019
Biochemical Oxygen Demand (27oC for 3 days)	72104.85	mg/lit	IS 3025 (Part 44), 2019
Chlorides as Cl-	27416.64	mg/lit	APHA 4500 Cl- B,23rd Edition, 2017
Sulphates as SO <sub>4</sub>	20134.77	mg/lit	APHA 3025 (Part 24) ;2019
Oil and Grease	31.22	mg/lit	IS 3025 (Part 39), 2019
Potassium	14956.86	mg/lit	APHA 4500 K, 23rd Edition.2017
Total Kjeldahl Nitrogen	10234.90	mg/lit	APHA 4500 No2 ,C 23rd Edition.2017
<div style="display: flex; justify-content: space-between; align-items: center;"> <div style="text-align: center;">  <p>GREEN ENVIROSAFE Engineers &amp; Consultant Pvt. Ltd. PUNE</p> </div> <div style="text-align: right;">   <b>Mr. Vinod Hande</b>            (Technical Manager)            Reviewed &amp; Authorized By         </div> </div>			

\*\*\*END OF REPORT\*\*\*

## Terms and conditions

- The report is refer only to the sample tested and not applies to the bulk.
- The results shown in this test report may differ based on various factors including temperature, humidity, pressure, retention time etc.
- 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

**GREEN ENVIROSAFE**



Engineers &amp; Consultant Pvt Ltd.

A-7/2/C-11, Capital City, Talwade - Chakan Road, Chakan MIDC, PH-IV, Village Nighoje, Tal. Khed,

Dist. Pune-410501. Mob+ 9545084620, 8421365421 CIN No. : U74900PN2013PTC149666

E-mail : envirosafetyeng@gmail.com, gesec12@gmail.com | www.greenenvirosafe.co.in

Recognised by Ministry of Environment and Forests (MoEF) / Central Pollution Control Board Govt. of India (CPCB)  
and ISO/IEC 17025:2017 (NABL), ISO 9001:2015, ISO 45001 : 2018 and ISO 14001 : 2015 Certified Company

TEST REPORT			
Test Report No: GESEC/WW/2022-23/03/427	Report Date	25/03/2023	
Sample ID : GESEC/WW/2022-23/03/427	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	GESEC	
	Date of Sample Collection	20/03/2023	
	Sample Receipt Date	21/03/2023	
	Analysis start Date	21/03/2023	
	Analysis End Date	25/03/2023	
Parameters	Results	Unit	Standard Method
Temp	29.5	oC	IS 3025 (Part 4) : 1983
Color	Dark Brown	--	IS 3025 (Part 4) : 1983
pH	2.00	--	APHA 4500 H+,B 23rd Edition.2017
Total Solids	275416.98	mg/lit	APHA 2540 D 23 <sup>rd</sup> ED:2017
Total Dissolved Solids	274491.54	mg/lit	APHA 2540,C,23rd Edition, 2017
Total Suspended Solids	925.44	mg/lit	APHA 2540 D 23rd ED:2017
Total Volatile Solids	8562.17	mg/lit	IS 3025 (Part 22): 2019
Chemical Oxygen Demand	244157.02	mg/lit	IS 3025 (Part 58) , 2019
Biochemical Oxygen Demand (27oC for 3 days)	117856.34	mg/lit	IS 3025 (Part 44), 2019
Chlorides as Cl-	60214.95	mg/lit	APHA 4500 Cl- B,23rd Edition, 2017
Sulphates as SO <sub>4</sub>	37415.02	mg/lit	APHA 3025 (Part 24) ;2019
Oil and Grease	920.14	mg/lit	IS 3025 (Part 39), 2019
Potassium	7156.39	mg/lit	APHA 4500 K, 23rd Edition.2017
Total Kjeldahl Nitrogen	138956.24	mg/lit	APHA 4500 No2 ,C 23rd Edition.2017
<div style="display: flex; justify-content: space-between; align-items: center;"> <div>  </div> <div>  <p><b>Mr. Vinod Hande</b> (Technical Manager) Reviewed &amp; Authorized By</p> </div> </div>			

\*\*\*END OF REPORT\*\*\*



**Terms and conditions**

- The report is refer only to the sample tested and not applies to the bulk.
- The results shown in this test report may differ based on various factors including temperature, humidity, pressure, retention time etc.
- 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





Recognised by Ministry of Environment and Forests (MoEF) / Central Pollution Control Board Govt. of India (CPCB)  
and ISO/IEC 17025:2017 (NABL), ISO 9001:2015, ISO 45001 : 2018 and ISO 14001 : 2015 Certified Company

TEST REPORT			
Test Report No: GESEC/WW/2022-23/03/428	Report Date	25/03/2023	
Sample ID : GESEC/WW/2022-23/03/428	Sample Details	CPU Inlet	
<b>Name and Address Of the Customer:</b> <b>M/s. Athani Sugars Ltd., Bambawade Unit</b> <b>(Distillery Plant)</b> <b>Bambawade, Tal.: Shahuwadi, Dist.: Kolhapur</b>	Type of Sample	Waste Water	
	Volume Of Sample	1 Lit plastic bottle	
	Sample Status	Sealed	
	Sample Collected By	GESEC	
	Date of Sample Collection	20/03/2023	
	Sample Receipt Date	21/03/2023	
	Analysis start Date	21/03/2023	
	Analysis End Date	25/03/2023	
Parameters	Results	Unit	Standard Method
pH	4.50	--	APHA 4500 H+,B 23rd Edition.2017
Suspended Solids (SS)	112.69	mg/lit	APHA 2540 D 23 <sup>rd</sup> ED:2017
Total Dissolved Solids (TDS)	2104.91	mg/lit	APHA 2540,C,23rd Edition, 2017
Chemical Oxygen Demand (COD)	2841.69	mg/lit	IS 3025 (Part 58) , 2019
Biochemical Oxygen Demand (BOD)	1204.95	mg/lit	IS 3025 (Part 44), 2019
Chlorides as Cl -	102.63	mg/lit	APHA 4500 Cl- B,23rd Edition, 2017
Sulphates as SO <sub>4</sub> <sup>2-</sup>	75.41	mg/lit	APHA 3025 (Part 24) ;2019
Ammoniac Nitrogen	15.30	mg/lit	APHA 4500 N-NH <sub>3</sub> ,C 23rd Edition.2017
Methane	BDL	mg/lit	USEPA 524.2
Hydrogen Sulphide	BDL	mg/lit	IS 3025 (Part 29), 2019
<div style="text-align: right;">   <b>Mr. Vinod Hande</b>  <b>(Technical Manager)</b>  <b>Reviewed &amp; Authorized By</b> </div> <div style="text-align: center;">  </div>			

\*\*\*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

**GREEN ENVIROSAFE**

Engineers &amp; Consultant Pvt Ltd.

A-7/2/C-11, Capital City, Talwade - Chakan Road, Chakan MIDC, PH-IV, Village Nighoje, Tal. Khed,  
Dist. Pune-410501. Mob+ 9545084620, 8421365421 CIN No. : U74900PN2013PTC149666  
E-mail : envirosafetyeng@gmail.com, gesec12@gmail.com | www.greenenvirosafe.co.in

Recognised by Ministry of Environment and Forests (MoEF) / Central Pollution Control Board Govt. of India (CPCB)  
and ISO/IEC 17025:2017 (NABL), ISO 9001:2015, ISO 45001 : 2018 and ISO 14001 : 2015 Certified Company

TEST REPORT				
Test Report No: GESEC/WW/2022-23/03/429		Report Date	25/03/2023	
Sample ID : GESEC/WW/2022-23/03/429		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	GESEC	
		Date of Sample Collection	20/03/2023	
		Sample Receipt Date	21/03/2023	
		Analysis start Date	21/03/2023	
		Analysis End Date	25/03/2023	
Parameters	Results	SPCB LIMIT	Unit	Standard Method
pH	7.55	5.5 - 9.0	--	APHA 4500 H+,B 23rd Edition.2017
Suspended Solids (SS)	21.97	100	mg/lit	APHA 2540 D 23 <sup>rd</sup> ED:2017
Total Dissolved Solids (TDS)	415.06	2100	mg/lit	APHA 2540,C,23rd Edition, 2017
Chemical Oxygen Demand (COD)	52.11	250	mg/lit	IS 3025 (Part 58) , 2019
Biochemical Oxygen Demand (BOD)	18.65	100	mg/lit	IS 3025 (Part 44), 2019
Chlorides as Cl -	48.75	600	mg/lit	APHA 4500 Cl- B,23rd Edition, 2017
Sulphates as SO <sub>4</sub> <sup>2-</sup>	37.01	1000	mg/lit	APHA 3025 (Part 24) ;2019
Ammoniac Nitrogen	BDL	50	mg/lit	APHA 4500 N-NH <sub>3</sub> ,C 23rd Edition.2017
Methane	BDL	--	mg/lit	USEPA 524.2
Hydrogen Sulphide	BDL	--	mg/lit	IS 3025 (Part 29), 2019
<b>Remark:</b> ➤ BDL – Below Detectable Limit. ➤ All parameters are within the MPCB limit.				
<div style="text-align: right;">   <b>Mr. Vinod Hande</b>            (Technical Manager)            Reviewed &amp; Authorized By         </div>				

\*\*\*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