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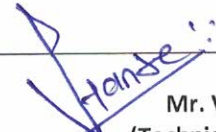
TEST REPORT				
Test Report No: -	GESEC/PRO/AAQM/2022-23/06/1263		Report Date	13/06/2022
Sample ID: -	GESEC/PRO/AAQM/2022-23/06/1263			
Name & Address of the Customer	Nira Bhima Sahakari Sakhar Karkhana Limited (Distillery Unit) Shahajinagar, PO: Redni, Tal.: Indapur, Dist.: Pune - 413 114.			
Ambient Air Sample Details				
Type	Sampling Location		Sampling done by	
Ambient Air	Village 01 (Redni)		GESEC	
Sampling Time				
Start Time	Stop Time		Total Hrs.	
08:00 AM	09:00 AM		60 Min	
Metrological Data/Environmental Conditions				
Ambient Temperature °C	24	Wet Bulb Temperature °C	20	
Dry Bulb Temperature °C	24	Relative Humidity % RH	69.4%	
Date of Sampling	Sample Receipt Date	Analysis Start Date	Analysis End Date	
08/06/2022	09/06/2022	09/06/2022	13/06/2022	
Name Of Instrument	Fine Dust Sampler	Date Of Calibration	06/09/2021	
Calibration Certificate No.	235	Due Date of Calibration	05/09/2022	
Parameters	Method	Unit	NAAQ Standards	Result
Particulate Matter (PM ₁₀)	IS:5182 (PART 4):2019	µg/cum	100.00	52.86
Particulate Matter (PM _{2.5})	IS:5182 (PART 24):2019	µg/cum	60.00	13.70
Sulphur Dioxide (SO ₂)	IS:5182 (PART 2):2017	µg/cum	80.00	12.62
Oxides of Nitrogen(NO _x)	IS:5182 (PART 6):2018	µg/cum	80.00	15.95
Note:				
➤ NAAQS - National Ambient Air Quality Standards, Central Pollution Control Board Notification, No. B – 29016 / 20 / 90 / PCI – I, New Delhi, the 18 th November 2009.				
		 Mr. Vinod Hande (Technical Manager) Reviewed & Authorized By		

END OF REPORT

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TEST REPORT				
Test Report No: -	GESEC/PRO/AAQM/2022-23/06/1264		Report Date	13/06/2022
Sample ID: -	GESEC/PRO/AAQM/2022-23/06/1264			
Name & Address of the Customer	Nira Bhima Sahakari Sakhar Karkhana Limited (Distillery Unit), Shahajinagar, PO: Redni, Tal.: Indapur, Dist.: Pune - 413 114.			
Ambient Air Sample Details				
Type	Sampling Location		Sampling done by	
Ambient Air	Village 02 (Bodni)		GESEC	
Sampling Time				
Start Time	Stop Time		Total Hrs.	
09:00 AM	10:00 AM		60 Min	
Metrological Data/Environmental Conditions				
Ambient Temperature °C	25	Wet Bulb Temperature °C	22	
Dry Bulb Temperature °C	25	Relative Humidity % RH	77.1%	
Date of Sampling	Sample Receipt Date	Analysis Start Date	Analysis End Date	
08/06/2022	09/06/2022	09/06/2022	13/06/2022	
Name Of Instrument	Combined Sampler	Date Of Calibration *	25/10/2021	
Calibration Certificate No.	CC202221000006078F	Due Date of Calibration	24/10/2022	
Parameters	Method	Unit	NAAQ Standards	Result
Particulate Matter (PM ₁₀)	IS:5182 (PART 4):2019	µg/cum	100.00	55.23
Particulate Matter (PM _{2.5})	IS:5182 (PART 24):2019	µg/cum	60.00	15.02
Sulphur Dioxide (SO ₂)	IS:5182 (PART 2):2017	µg/cum	80.00	13.78
Oxides of Nitrogen(NO _x)	IS:5182 (PART 6):2018	µg/cum	80.00	17.05
Note:				
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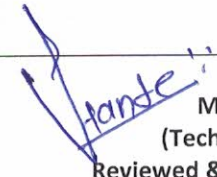


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TEST REPORT

Test Report No: -	GESEC/PRO/AAQM/2022-23/06/1265	Report Date	13/06/2022	
Sample ID: -	GESEC/PRO/AAQM/2022-23/06/1265			
Name & Address of the Customer	Nira Bhima Sahakari Sakhar Karkhana Limited (Distillery Unit) Shahajinagar, PO: Redni, Tal.: Indapur, Dist.: Pune - 413 114.			
AMBIENT AIR QUALITY MONITORING RESULTS				
Type	Sampling Location		Sampling done by	
Ambient Air	Near Main Gate		GESEC	
Sampling Time				
Start Time	Stop Time		Total Hrs.	
10:00 AM	11:00 AM		60 Min	
Metrological Data/Environmental Conditions				
Ambient Temperature °C	29	Wet Bulb Temperature °C	25	
Dry Bulb Temperature °C	29	Relative Humidity % RH	72.4%	
Date of Sampling	Sample Receipt Date	Analysis Start Date	Analysis End Date	
08/06/2022	09/06/2022	09/06/2022	13/06/2022	
Name of Instrument	High Volume Dust Sampler	Date Of Calibration	25/10/2021	
Calibration Certificate No.	LES-CCL/FF/MF/SC/1232	Due Date of Calibration	24/10/2022	
Parameters	Method	Unit	NAAQ Standards	Result
Particulate Matter (PM ₁₀)	IS:5182 (PART 4):2019	µg/cum	100.00	60.63
Particulate Matter (PM _{2.5})	IS:5182 (PART 24):2019	µg/cum	60.00	20.41
Sulphur Dioxide (SO ₂)	IS:5182 (PART 2):2017	µg/cum	80.00	21.97
Oxides of Nitrogen(NO _x)	IS:5182 (PART 6):2018	µg/cum	80.00	25.30
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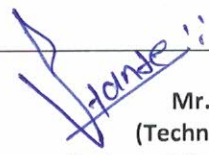
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TEST REPORT

Test Report No: -	GESEC/PRO/AAQM/2022-23/06/1266	Report Date	13/06/2022	
Sample ID: -	GESEC/PRO/AAQM/2022-23/06/1266			
Name & Address of the Customer	Nira Bhima Sahakari Sakhar Karkhana Limited (Distillery Unit) Shahajinagar, PO: Redni, Tal.: Indapur, Dist.: Pune - 413 114.			
AMBIENT AIR QUALITY MONITORING RESULTS				
Type	Sampling Location		Sampling done by	
Ambient Air	Back Side of Distillery		GESEC	
Sampling Time				
Start Time	Stop Time		Total Hrs.	
10:15 AM	11:15 AM		60 Min	
Metrological Data/Environmental Conditions				
Ambient Temperature °C	29	Wet Bulb Temperature °C	25	
Dry Bulb Temperature °C	29	Relative Humidity % RH	72.4%	
Date of Sampling	Sample Receipt Date	Analysis Start Date	Analysis End Date	
08/06/2022	09/06/2022	09/06/2022	13/06/2022	
Name of Instrument	Respirable Dust Sampler	Date Of Calibration	25/10/2021	
Calibration Certificate No.	LES-CCL/FF/MF/SC/1235	Due Date of Calibration	24/10/2022	
Parameters	Method	Unit	NAAQ Standards	Result
Particulate Matter (PM ₁₀)	IS:5182 (PART 4):2019	µg/cum	100.00	59.63
Particulate Matter (PM _{2.5})	IS:5182 (PART 24):2019	µg/cum	60.00	18.84
Sulphur Dioxide (SO ₂)	IS:5182 (PART 2):2017	µg/cum	80.00	18.52
Oxides of Nitrogen(NO _x)	IS:5182 (PART 6):2018	µg/cum	80.00	23.79
Note:				
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			 Mr. Vinod Hande (Technical Manager) Reviewed & Authorized By	

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TEST REPORT

Test Report No: -	GESEC/PRO/AAQM/2022-23/06/1267	Report Date	13/06/2022
Sample ID: -	GESEC/PRO/AAQM/2022-23/06/1267		

Name & Address of the Customer	Nira Bhima Sahakari Sakhar Karkhana Limited (Distillery Unit) Shahajinagar, PO: Redni, Tal.: Indapur, Dist.: Pune - 413 114.
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AMBIENT AIR QUALITY MONITORING RESULTS

Type	Sampling Location	Sampling done by
Ambient Air	Near Office	GESEC

Sampling Time

Start Time	Stop Time	Total Hrs.
11:25 AM	12:25 PM	60 Min

Metrological Data/Environmental Conditions

Ambient Temperature °C	29	Wet Bulb Temperature °C	25
Dry Bulb Temperature °C	29	Relative Humidity % RH	72.4%

Date of Sampling	Sample Receipt Date	Analysis Start Date	Analysis End Date
08/06/2022	09/06/2022	09/06/2022	13/06/2022

Name Of Instrument	High Volume Combined Sampler	Date Of Calibration	25/10/2021
Calibration Certificate No.	LES-CCL/FF/MF/SC/1234	Due Date of Calibration	24/10/2022

Parameters	Method	Unit	NAAQ Standards	Result
Particulate Matter (PM ₁₀)	IS:5182 (PART 4):2019	µg/cum	100.00	58.86
Particulate Matter (PM _{2.5})	IS:5182 (PART 24):2019	µg/cum	60.00	18.02
Sulphur Dioxide (SO ₂)	IS:5182 (PART 2):2017	µg/cum	80.00	16.79
Oxides of Nitrogen(NO _x)	IS:5182 (PART 6):2018	µg/cum	80.00	20.31

Note:

- NAAQS - National Ambient Air Quality Standards, Central Pollution Control Board Notification, No. B – 29016 / 20 / 90 / PCI – I, New Delhi, the 18th November 2009.



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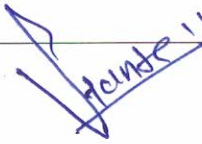
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TEST REPORT

Test Report No: -	GESEC/PRO/WZM/2022-23/06/1268	Report Date	13/06/2022		
Sample ID: -	GESEC/PRO/WZM/2022-23/06/1268				
Name & Address of the Customer	Nira Bhima Sahakari Sakhar Karkhana Limited (Distillery Unit) Shahajinagar, PO: Redni, Tal.: Indapur, Dist.: Pune - 413 114.				
WORKZONE AIR QUALITY MONITORING RESULTS					
Type	Sampling Location		Sampling done by		
Ambient Air	Bagasse Yard		GESEC		
Sampling Time					
Start Time	Stop Time		Total Hrs.		
11:30 AM	12:30 PM		60 Min		
Metrological Data/Environmental Conditions					
Ambient Temperature °C	30	Wet Bulb Temperature °C	25		
Dry Bulb Temperature °C	30	Relative Humidity % RH	66.7%		
Date of Sampling	Sample Receipt Date	Analysis Start Date	Analysis End Date		
08/06/2022	09/06/2022	09/06/2022	13/06/2022		
Name Of Instrument	Handy Sampler	Date Of Calibration	25/10/2021		
Calibration Certificate No.	CC20222100006086F	Due Date of Calibration	24/10/2022		
Parameters	Method	Unit	The Factories Act 1948, standards	Result	
Suspended Particulate Matter (SPM)	IS:5182 (PART 4):2019	µg/cum	10000	378.96	
Sulphur Dioxide	IS:5182 (PART 2):2017	µg/cum	5000	16.81	
Oxides of Nitrogen	IS:5182 (PART 6):2018	µg/cum	6000	18.00	
Note:					
<ul style="list-style-type: none"> The Factories' Act, 1948 has prescribed Work Zone Air Level threshold limit. 					
			 Mr. Vinod Hande (Technical Manager) Reviewed & Authorized By		

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TEST REPORT

Test Report No: -	GESEC/PRO/WZM/2022-23/06/1269	Report Date	13/06/2022
Sample ID: -	GESEC/PRO/WZM/2022-23/06/1269		

Name & Address of the Customer	Nira Bhima Sahakari Sakhar Karkhana Limited (Distillery Unit) Shahajinagar, PO: Redni, Tal.: Indapur, Dist.: Pune - 413 114.
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WORKZONE AIR QUALITY MONITORING RESULTS

Type	Sampling Location	Sampling done by
Ambient Air	Cane Yard	GESEC

Sampling Time

Start Time	Stop Time	Total Hrs.
11:45 AM	12:45 PM	60 Min

Metrological Data/Environmental Conditions

Ambient Temperature °C	30	Wet Bulb Temperature °C	25
Dry Bulb Temperature °C	30	Relative Humidity % RH	66.7%

Date of Sampling	Sample Receipt Date	Analysis Start Date	Analysis End Date
08/06/2022	09/06/2022	09/06/2022	13/06/2022

Name of Instrument	Personal Sampler	Date of Calibration	25/10/2021
Calibration Certificate No.	CC20222100006075F	Due Date of Calibration	24/10/2022

Parameters	Method	Unit	The Factories Act 1948, standards	Result
Suspended Particulate Matter (SPM)	IS:5182 (PART 4):2019	µg/cum	10000	385.76
Sulphur Dioxide	IS:5182 (PART 2):2017	µg/cum	5000	15.20
Oxides of Nitrogen	IS:5182 (PART 6):2018	µg/cum	6000	17.89

Note:

- The Factories' Act, 1948 has prescribed Work Zone Air Level threshold limit.



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(Technical Manager)
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TEST REPORT

Test Report No: -	GESEC/PRO/WZM/2022-23/06/1270	Report Date	13/06/2022
Sample ID: -	GESEC/PRO/WZM/2022-23/06/1270		
Name & Address of the Customer	Nira Bhima Sahakari Sakhar Karkhana Limited (Distillery Unit) Shahajinagar, PO: Redni, Tal.: Indapur, Dist.: Pune - 413 114.		

WORKZONE AIR QUALITY MONITORING RESULTS

Type	Sampling Location	Sampling done by	
Ambient Air	Ash Storage	GESEC	
Sampling Time			
Start Time	Stop Time	Total Hrs.	
12:00 PM	01:00 PM	60 Min	
Metrological Data/Environmental Conditions			
Ambient Temperature °C	32	Wet Bulb Temperature °C	28
Dry Bulb Temperature °C	32	Relative Humidity % RH	73.8%
Date of Sampling	Sample Receipt Date	Analysis Start Date	Analysis End Date
08/06/2022	09/06/2022	09/06/2022	13/06/2022
Name Of Instrument	Handy Sampler	Date Of Calibration	25/10/2021
Calibration Certificate No.	CC202221000006086F	Due Date of Calibration	24/10/2022

Parameters	Method	Unit	The Factories Act 1948, standards	Result
Suspended Particulate Matter (SPM)	IS:5182 (PART 4):2019	µg/cum	10000	425.08
Sulphur Dioxide	IS:5182 (PART 2):2017	µg/cum	5000	14.71
Oxides of Nitrogen	IS:5182 (PART 6):2018	µg/cum	6000	17.96

Note:

- The Factories' Act, 1948 has prescribed Work Zone Air Level threshold limit.




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Sample ID: -	GESEC/PRO/ANLM/2022-23/06/1271			
Name & Address of the Customer	Nira Bhima Sahakari Sakhar Karkhana Limited (Distillery Unit) Shahajinagar, PO: Redni, Tal.: Indapur, Dist.: Pune - 413 114.			
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	
08/06/2022	09/06/2022	09/06/2022	13/06/2022	
Name Of Instrument	Digital Sound Level Meter	Date Of Calibration	10/10/2021	
Calibration Certificate No.	ME.2021/10/21/002	Due Date of Calibration	09/10/2022	
Test Location	Unit	Average Noise Level Readings		CPCB Standards dB(A)
		Day Time (12:30 P.M.)	Night Time (10:00 P.M.)	
Near Main Gate	dB(A)	63.0	56.9	During Day time = 75 dB (A) During Night time= 70 dB(A)
Near Molasses Tank	dB(A)	58.6	53.4	
Near Parking	dB(A)	62.1	55.9	
Near office	dB(A)	63.8	55.2	
Near Lagoon Plant	dB(A)	62.9	54.9	
Remark-				
<ul style="list-style-type: none"> Maharashtra Pollution Control Board (MPCB) has prescribed 75 dB (A) as an upper limit of Ambient Noise Level during the Day Time & 70 dB (A) during the Night Time. 				
			 Mr. Vinod Hande (Technical Manager) Reviewed & Authorized By	

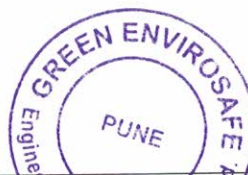
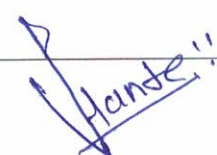
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TEST REPORT				
Test Report No: -	GESEC/PRO/WNLM/2022-23/06/1272		Report Date	13/06/2022
Sample ID: -	GESEC/PRO/WNLM/2022-23/06/1272			
Name & Address of the Customer	Nira Bhima Sahakari Sakhar Karkhana Limited (Distillery Unit) Shahajinagar, PO: Redni, Tal.: Indapur, Dist.: Pune - 413 114.			
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	
08/06/2022	09/06/2022	09/06/2022	13/06/2022	
Name Of Instrument	Digital Sound Level Meter	Date Of Calibration	10/10/2021	
Calibration Certificate No.	ME.2021/10/21/002	Due Date of Calibration	09/10/2022	
Test Location	Unit	Average Noise Level Readings		The Factories Act 1948, standards
		Day (01.20 PM)	Night (11.00 PM)	
Distillation Section	dB(A)	80.9	74.3	≤ 90
Store Room	dB(A)	62.5	51.9	
Fermentation Section	dB(A)	73.0	66.8	
Alcohol Storage	dB(A)	65.1	62.9	
Cooling Tower	dB(A)	80.7	73.0	
Remark-				
<ul style="list-style-type: none"> The Factories' Act, 1948 has prescribed Work Zone Noise Level threshold limit for 8 hours' exposure as 90 dB (A). 				
			 Mr. Vinod Hande (Technical Manager) Reviewed & Authorized By	

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 04/12/2022.