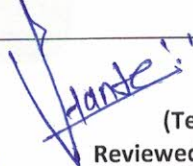


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TEST REPORT				
Test Report No: -	GESEC/PRO/AAQM/2022-23/08/329		Report Date	20/08/2022
Sample ID: -	GESEC/PRO/AAQM/2022-23/08/329			
Name & Address of the Customer	Nira Bhima Sahakari Sakhar Karkhana Limited (Distillery Unit) Shahajinagar, PO: Redni, 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.	
10:00 AM	11:00 AM		60 Min	
Metrological Data/Environmental Conditions				
Ambient Temperature °C	26	Wet Bulb Temperature °C	23	
Dry Bulb Temperature °C	26	Relative Humidity % RH	77.6%	
Date of Sampling	Sample Receipt Date	Analysis Start Date	Analysis End Date	
13/08/2022	16/08/2022	16/08/2022	20/08/2022	
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	53.36
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	14.78
Oxides of Nitrogen(NO _x)	IS:5182 (PART 6):2018	µg/cum	80.00	16.95
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

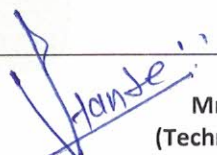


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TEST REPORT

Test Report No: -	GESEC/PRO/AAQM/2022-23/08/330	Report Date	20/08/2022	
Sample ID: -	GESEC/PRO/AAQM/2022-23/08/330			
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.	
11:00 AM	12:00 PM		60 Min	
Metrological Data/Environmental Conditions				
Ambient Temperature °C	28	Wet Bulb Temperature °C	25	
Dry Bulb Temperature °C	28	Relative Humidity % RH	78.5%	
Date of Sampling	Sample Receipt Date	Analysis Start Date	Analysis End Date	
13/08/2022	16/08/2022	16/08/2022	20/08/2022	
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	57.13
Particulate Matter (PM _{2.5})	IS:5182 (PART 24):2019	µg/cum	60.00	17.52
Sulphur Dioxide (SO ₂)	IS:5182 (PART 2):2017	µg/cum	80.00	16.91
Oxides of Nitrogen(NO _x)	IS:5182 (PART 6):2018	µg/cum	80.00	18.25
Note:				
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		 Mr. Vinod Hande (Technical Manager) Reviewed & Authorized By		

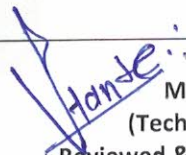
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TEST REPORT				
Test Report No: -	GESEC/PRO/AAQM/2022-23/08/331		Report Date	20/08/2022
Sample ID: -	GESEC/PRO/AAQM/2022-23/08/331			
Name & Address of the Customer	Nira Bhima Sahakari Sakhar Karkhana Limited (Distillery Unit) Shahajinagar, PO: Redni, 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.	
12:00 PM	01:00 PM		60 Min	
Metrological Data/Environmental Conditions				
Ambient Temperature °C	29	Wet Bulb Temperature °C	27	
Dry Bulb Temperature °C	29	Relative Humidity % RH	85.7%	
Date of Sampling	Sample Receipt Date	Analysis Start Date	Analysis End Date	
13/08/2022	16/08/2022	16/08/2022	20/08/2022	
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	60.13
Particulate Matter (PM _{2.5})	IS:5182 (PART 24):2019	µg/cum	60.00	20.58
Sulphur Dioxide (SO ₂)	IS:5182 (PART 2):2017	µg/cum	80.00	19.63
Oxides of Nitrogen(NO _x)	IS:5182 (PART 6):2018	µg/cum	80.00	23.10
Note:				
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			 Mr. Vinod Hande (Technical Manager) Reviewed & Authorized By	

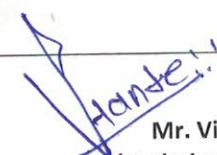
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TEST REPORT				
Test Report No: -	GESEC/PRO/AAQM/2022-23/08/332		Report Date	20/08/2022
Sample ID: -	GESEC/PRO/AAQM/2022-23/08/332			
Name & Address of the Customer	Nira Bhima Sahakari Sakhar Karkhana Limited (Distillery Unit) Shahajinagar, PO: Redni, 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.	
12:10 PM	01:10 PM		60 Min	
Metrological Data/Environmental Conditions				
Ambient Temperature °C	29	Wet Bulb Temperature °C	27	
Dry Bulb Temperature °C	29	Relative Humidity % RH	85.7%	
Date of Sampling	Sample Receipt Date	Analysis Start Date	Analysis End Date	
13/08/2022	16/08/2022	16/08/2022	20/08/2022	
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	59.16
Particulate Matter (PM _{2.5})	IS:5182 (PART 24):2019	µg/cum	60.00	19.01
Sulphur Dioxide (SO ₂)	IS:5182 (PART 2):2017	µg/cum	80.00	18.25
Oxides of Nitrogen(NO _x)	IS:5182 (PART 6):2018	µg/cum	80.00	22.78
Note:				
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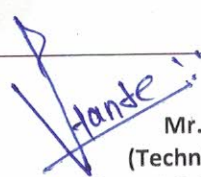
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TEST REPORT				
Test Report No: -	GESEC/PRO/AAQM/2022-23/08/333		Report Date	20/08/2022
Sample ID: -	GESEC/PRO/AAQM/2022-23/08/333			
Name & Address of the Customer	Nira Bhima Sahakari Sakhar Karkhana Limited (Distillery Unit) Shahajinagar, PO: Redni, Tal.: Indapur, Dist.: Pune - 413 114.			
AMBIENT AIR QUALITY MONITORING RESULTS				
Type	Sampling Location		Sampling done by	
Ambient Air	Near Office		GESEC	
Sampling Time				
Start Time	Stop Time		Total Hrs.	
12:20 PM	01:20 PM		60 Min	
Metrological Data/Environmental Conditions				
Ambient Temperature °C	30	Wet Bulb Temperature °C	27	
Dry Bulb Temperature °C	30	Relative Humidity % RH	79.3%	
Date of Sampling	Sample Receipt Date	Analysis Start Date	Analysis End Date	
13/08/2022	16/08/2022	16/08/2022	20/08/2022	
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	57.63
Particulate Matter (PM _{2.5})	IS:5182 (PART 24):2019	µg/cum	60.00	16.85
Sulphur Dioxide (SO ₂)	IS:5182 (PART 2):2017	µg/cum	80.00	16.42
Oxides of Nitrogen(NO _x)	IS:5182 (PART 6):2018	µg/cum	80.00	19.77
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.				
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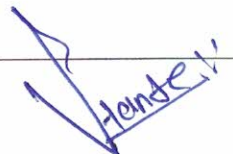
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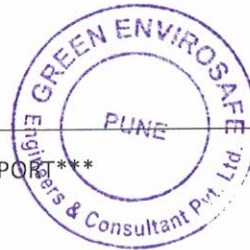
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TEST REPORT				
Test Report No: -	GESEC/PRO/WZM/2022-23/08/334		Report Date	20/08/2022
Sample ID: -	GESEC/PRO/WZM/2022-23/08/334			
Name & Address of the Customer	Nira Bhima Sahakari Sakhar Karkhana Limited (Distillery Unit) Shahajinagar, PO: Redni, Tal.: Indapur, Dist.: Pune - 413 114.			
WORKZONE AIR QUALITY MONITORING RESULTS				
Type	Sampling Location		Sampling done by	
Work zone Air	Bagasse Yard		GESEC	
Sampling Time				
Start Time	Stop Time		Total Hrs.	
12:30 PM	01:30 PM		60 Min	
Metrological Data/Environmental Conditions				
Ambient Temperature °C	30	Wet Bulb Temperature °C	27	
Dry Bulb Temperature °C	30	Relative Humidity % RH	79.3%	
Date of Sampling	Sample Receipt Date	Analysis Start Date	Analysis End Date	
13/08/2022	16/08/2022	16/08/2022	20/08/2022	
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	310.46
Sulphur Dioxide	IS:5182 (PART 2):2017	µg/cum	5000	16.77
Oxides of Nitrogen	IS:5182 (PART 6):2018	µg/cum	6000	18.95
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/2022-23/08/335	Report Date	20/08/2022	
Sample ID: -	GESEC/PRO/WZM/2022-23/08/335			
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	
Work zone Air	Cane Yard		GESEC	
Sampling Time				
Start Time	Stop Time		Total Hrs.	
12:40 PM	01:40 PM		60 Min	
Metrological Data/Environmental Conditions				
Ambient Temperature °C	30	Wet Bulb Temperature °C	27	
Dry Bulb Temperature °C	30	Relative Humidity % RH	79.3%	
Date of Sampling	Sample Receipt Date	Analysis Start Date	Analysis End Date	
13/08/2022	16/08/2022	16/08/2022	20/08/2022	
Name of Instrument	Personal Sampler	Date of Calibration	25/10/2021	
Calibration Certificate No.	CC202221000006075F	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	362.10
Sulphur Dioxide	IS:5182 (PART 2):2017	µg/cum	5000	15.42
Oxides of Nitrogen	IS:5182 (PART 6):2018	µg/cum	6000	18.58
Note:				
<ul style="list-style-type: none"> The Factories' Act, 1948 has prescribed Work Zone Air Level threshold limit. 				
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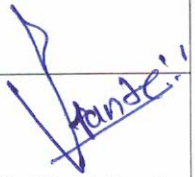
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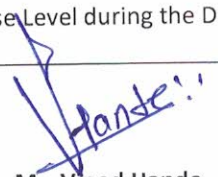
TEST REPORT				
Test Report No: -	GESEC/PRO/WZM/2022-23/08/336	Report Date	20/08/2022	
Sample ID: -	GESEC/PRO/WZM/2022-23/08/336			
Name & Address of the Customer	Nira Bhima Sahakari Sakhar Karkhana Limited (Distillery Unit) Shahajinagar, PO: Redni, Tal.: Indapur, Dist.: Pune - 413 114.			
WORKZONE AIR QUALITY MONITORING RESULTS				
Type	Sampling Location	Sampling done by		
Work zone Air	Ash Storage	GESEC		
Sampling Time				
Start Time	Stop Time	Total Hrs.		
12:50 PM	01:50 PM	60 Min		
Metrological Data/Environmental Conditions				
Ambient Temperature °C	31	Wet Bulb Temperature °C	28	
Dry Bulb Temperature °C	31	Relative Humidity % RH	79.6%	
Date of Sampling	Sample Receipt Date	Analysis Start Date	Analysis End Date	
13/08/2022	16/08/2022	16/08/2022	20/08/2022	
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	326.59
Sulphur Dioxide	IS:5182 (PART 2):2017	µg/cum	5000	15.61
Oxides of Nitrogen	IS:5182 (PART 6):2018	µg/cum	6000	17.42
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/ANLM2022-23/08/337		Report Date	20/08/2022
Sample ID: -	GESEC/PRO/ANLM/2022-23/08/337			
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	
13/08/2022	16/08/2022	16/08/2022	20/08/2022	
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 (01:15 P.M.)	Night Time (11:00 P.M.)	
Near Main Gate	dB(A)	64.1	56.9	During Day time = 75 dB (A) During Night time= 70 dB(A)
Near Molasses Tank	dB(A)	58.7	53.0	
Near Parking	dB(A)	65.8	58.7	
Near office	dB(A)	61.2	54.6	
Near Lagoon Plant	dB(A)	63.0	57.0	
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	


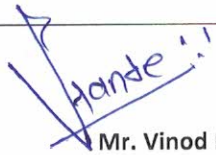
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Recognised by Ministry of Environment and Forests (MoEF) / Central Pollution Control Board Govt. of India (CPCB)
ISO 9001:2015, ISO 45001 : 2018 and ISO 14001 : 2015 Certified Company

TEST REPORT				
Test Report No: -	GESEC/PRO/WNLM/2022-23/08/338		Report Date	20/08/2022
Sample ID: -	GESEC/PRO/WNLM/2022-23/08/338			
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
13/08/2022	16/08/2022	16/08/2022		20/08/2022
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 (02.00 PM)	Night (11.40 PM)	
Distillation Section	dB(A)	83.5	76.4	≤ 90
Store Room	dB(A)	62.8	57.0	
Fermentation Section	dB(A)	74.3	67.2	
Alcohol Storage	dB(A)	67.6	62.5	
Cooling Tower	dB(A)	78.5	70.1	
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.
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