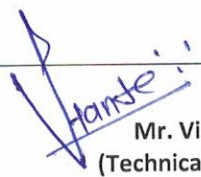


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TEST REPORT				
Test Report No: -	GESEC/PRO/AAQM/2022-23/07/767		Report Date	18/07/2022
Sample ID: -	GESEC/PRO/AAQM/2022-23/07/767			
Name & Address of the Customer	Nira Bhima Sahakari Sakhar Karkhana Limited (Distillery Unit) Shahajinagar, PO: Redni, 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.	
09:00 AM	10:00 AM		60 Min	
Metrological Data/Environmental Conditions				
Ambient Temperature °C	23	Wet Bulb Temperature °C	20	
Dry Bulb Temperature °C	23	Relative Humidity % RH	76.1%	
Date of Sampling	Sample Receipt Date	Analysis Start Date	Analysis End Date	
13/07/2022	14/07/2022	14/07/2022	18/07/2022	
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	50.33
Particulate Matter (PM _{2.5})	IS:5182 (PART 24):2019	µg/cum	60.00	12.47
Sulphur Dioxide (SO ₂)	IS:5182 (PART 2):2017	µg/cum	80.00	11.96
Oxides of Nitrogen(NO _x)	IS:5182 (PART 6):2018	µg/cum	80.00	13.02
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	


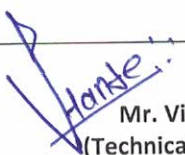
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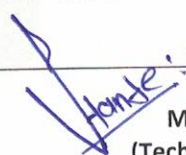
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TEST REPORT				
Test Report No: -	GESEC/PRO/AAQM/2022-23/07/768		Report Date	18/07/2022
Sample ID: -	GESEC/PRO/AAQM/2022-23/07/768			
Name & Address of the Customer	Nira Bhima Sahakari Sakhar Karkhana Limited (Distillery Unit), Shahajinagar, PO: Redni, 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.	
10:00 AM	11:00 AM		60 Min	
Metrological Data/Environmental Conditions				
Ambient Temperature °C	24	Wet Bulb Temperature °C	22	
Dry Bulb Temperature °C	24	Relative Humidity % RH	84.1%	
Date of Sampling	Sample Receipt Date	Analysis Start Date	Analysis End Date	
13/07/2022	14/07/2022	14/07/2022	18/07/2022	
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	54.23
Particulate Matter (PM _{2.5})	IS:5182 (PART 24):2019	µg/cum	60.00	14.86
Sulphur Dioxide (SO ₂)	IS:5182 (PART 2):2017	µg/cum	80.00	13.00
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.				
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TEST REPORT				
Test Report No: -	GESEC/PRO/AAQM/2022-23/07/769	Report Date	18/07/2022	
Sample ID: -	GESEC/PRO/AAQM/2022-23/07/769			
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.	
11:20 AM	12:20 PM		60 Min	
Metrological Data/Environmental Conditions				
Ambient Temperature °C	27	Wet Bulb Temperature °C	26	
Dry Bulb Temperature °C	27	Relative Humidity % RH	92.4%	
Date of Sampling	Sample Receipt Date	Analysis Start Date	Analysis End Date	
13/07/2022	14/07/2022	14/07/2022	18/07/2022	
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	58.63
Particulate Matter (PM _{2.5})	IS:5182 (PART 24):2019	µg/cum	60.00	16.02
Sulphur Dioxide (SO ₂)	IS:5182 (PART 2):2017	µg/cum	80.00	18.89
Oxides of Nitrogen(NO _x)	IS:5182 (PART 6):2018	µg/cum	80.00	21.43
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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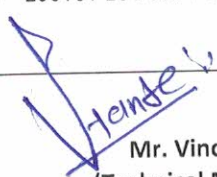
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TEST REPORT				
Test Report No: -	GESEC/PRO/AAQM/2022-23/07/770	Report Date	18/07/2022	
Sample ID: -	GESEC/PRO/AAQM/2022-23/07/770			
Name & Address of the Customer	Nira Bhima Sahakari Sakhar Karkhana Limited (Distillery Unit) Shahajinagar, PO: Redni, 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.		
11:30 AM	12:30 PM	60 Min		
Metrological Data/Environmental Conditions				
Ambient Temperature °C	27	Wet Bulb Temperature °C	26	
Dry Bulb Temperature °C	27	Relative Humidity % RH	92.4%	
Date of Sampling	Sample Receipt Date	Analysis Start Date	Analysis End Date	
13/07/2022	14/07/2022	14/07/2022	18/07/2022	
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	57.13
Particulate Matter (PM _{2.5})	IS:5182 (PART 24):2019	µg/cum	60.00	15.79
Sulphur Dioxide (SO ₂)	IS:5182 (PART 2):2017	µg/cum	80.00	16.20
Oxides of Nitrogen(NO _x)	IS:5182 (PART 6):2018	µg/cum	80.00	18.45
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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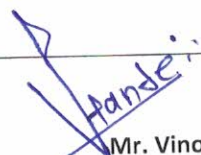
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TEST REPORT				
Test Report No: -	GESEC/PRO/AAQM/2022-23/07/771	Report Date	18/07/2022	
Sample ID: -	GESEC/PRO/AAQM/2022-23/07/771			
Name & Address of the Customer	Nira Bhima Sahakari Sakhar Karkhana Limited (Distillery Unit) Shahajinagar, PO: Redni, 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.		
11:45 AM	12:45 PM	60 Min		
Metrological Data/Environmental Conditions				
Ambient Temperature °C	28	Wet Bulb Temperature °C	26	
Dry Bulb Temperature °C	28	Relative Humidity % RH	85.4%	
Date of Sampling	Sample Receipt Date	Analysis Start Date	Analysis End Date	
13/07/2022	14/07/2022	14/07/2022	18/07/2022	
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	56.13
Particulate Matter (PM _{2.5})	IS:5182 (PART 24):2019	µg/cum	60.00	14.02
Sulphur Dioxide (SO ₂)	IS:5182 (PART 2):2017	µg/cum	80.00	15.64
Oxides of Nitrogen(NO _x)	IS:5182 (PART 6):2018	µg/cum	80.00	17.89
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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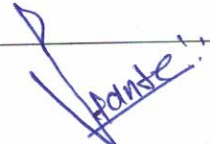
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TEST REPORT

Test Report No: -	GESEC/PRO/WZM/2022-23/07/772	Report Date	18/07/2022	
Sample ID: -	GESEC/PRO/WZM/2022-23/07/772			
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.	
11:55 AM	12:55 PM		60 Min	
Metrological Data/Environmental Conditions				
Ambient Temperature °C	29	Wet Bulb Temperature °C	26	
Dry Bulb Temperature °C	29	Relative Humidity % RH	78.9%	
Date of Sampling	Sample Receipt Date	Analysis Start Date	Analysis End Date	
13/07/2022	14/07/2022	14/07/2022	18/07/2022	
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	240.44
Sulphur Dioxide	IS:5182 (PART 2):2017	µg/cum	5000	14.05
Oxides of Nitrogen	IS:5182 (PART 6):2018	µg/cum	6000	16.87
Note:				
<ul style="list-style-type: none"> The Factories' Act, 1948 has prescribed Work Zone Air Level threshold limit. 				
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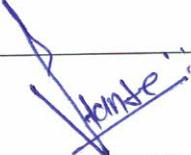
TEST REPORT				
Test Report No: -	GESEC/PRO/WZM/2022-23/07/773	Report Date	18/07/2022	
Sample ID: -	GESEC/PRO/WZM/2022-23/07/773			
Name & Address of the Customer	Nira Bhima Sahakari Sakhar Karkhana Limited (Distillery Unit) Shahajinagar, PO: Redni, Tal.: Indapur, Dist.: Pune - 413 114.			
WORKZONE AIR QUALITY MONITORING RESULTS				
Type	Sampling Location		Sampling done by	
Ambient Air	Cane Yard		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	26	
Dry Bulb Temperature °C	29	Relative Humidity % RH	78.9%	
Date of Sampling	Sample Receipt Date	Analysis Start Date	Analysis End Date	
13/07/2022	14/07/2022	14/07/2022	18/07/2022	
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	263.71
Sulphur Dioxide	IS:5182 (PART 2):2017	µg/cum	5000	13.58
Oxides of Nitrogen	IS:5182 (PART 6):2018	µg/cum	6000	16.00
Note:				
<ul style="list-style-type: none"> The Factories' Act, 1948 has prescribed Work Zone Air Level threshold limit. 				
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TEST REPORT				
Test Report No: -	GESEC/PRO/WZM/2022-23/07/774	Report Date	18/07/2022	
Sample ID: -	GESEC/PRO/WZM/2022-23/07/774			
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.	
12:20 PM	01:20 PM		60 Min	
Metrological Data/Environmental Conditions				
Ambient Temperature °C	29	Wet Bulb Temperature °C	26	
Dry Bulb Temperature °C	29	Relative Humidity % RH	78.9%	
Date of Sampling	Sample Receipt Date	Analysis Start Date	Analysis End Date	
13/07/2022	14/07/2022	14/07/2022	18/07/2022	
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	274.20
Sulphur Dioxide	IS:5182 (PART 2):2017	µg/cum	5000	13.95
Oxides of Nitrogen	IS:5182 (PART 6):2018	µg/cum	6000	15.74
Note:				
<ul style="list-style-type: none"> The Factories' Act, 1948 has prescribed Work Zone Air Level threshold limit. 				
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TEST REPORT				
Test Report No: -	GESEC/PRO/ANLM/2022-23/07/775		Report Date	18/07/2022
Sample ID: -	GESEC/PRO/ANLM/2022-23/07/775			
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	
13/07/2022	14/07/2022	14/07/2022	18/07/2022	
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 (01:00 P.M.)	Night Time (10:30 P.M.)	
Near Main Gate	dB(A)	62.3	55.4	During Day time = 75 dB (A)
Near Molasses Tank	dB(A)	60.5	54.9	
Near Parking	dB(A)	64.0	56.1	During Night time= 70 dB(A)
Near office	dB(A)	60.9	53.2	
Near Lagoon Plant	dB(A)	61.9	53.8	
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. 				
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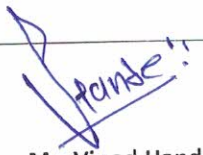
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TEST REPORT				
Test Report No: -	GESEC/PRO/WNLM/2022-23/07/776		Report Date	18/07/2022
Sample ID: -	GESEC/PRO/WNLM/2022-23/07/776			
Name & Address of the Customer	Nira Bhima Sahakari Sakhar Karkhana Limited (Distillery Unit) Shahajinagar, PO: Redni, 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
13/07/2022	14/07/2022	14/07/2022		18/07/2022
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 (01.40 PM)	Night (11.30 PM)	
Distillation Section	dB(A)	82.6	73.0	≤ 90
Store Room	dB(A)	61.9	54.6	
Fermentation Section	dB(A)	75.8	64.1	
Alcohol Storage	dB(A)	69.0	63.0	
Cooling Tower	dB(A)	81.0	74.9	
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.