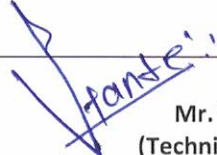


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TEST REPORT

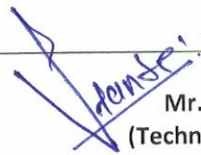
Test Report No: -	GESEC/PRO/AAQM/2022-23/05/751		Report Date	17/05/2022
Sample ID: -	GESEC/PRO/AAQM/2022-23/05/751			
Name & Address of the Customer	Nira Bhima Sahakari Sakhar Karkhana Limited (Distillery Unit) Shahajinagar, PO: Redni, Tal.: Indapur, Dist.: Pune - 413 114.			
Ambient Air Sample Details				
Type	Sampling Location		Sampling done by	
Ambient Air	Village 01 (Redni)		GESEC	
Sampling Time				
Start Time	Stop Time		Total Hrs.	
08:40 AM	09:40 AM		60 Min	
Metrological Data/Environmental Conditions				
Ambient Temperature °C	27	Wet Bulb Temperature °C	20	
Dry Bulb Temperature °C	27	Relative Humidity % RH	52.4%	
Date of Sampling	Sample Receipt Date	Analysis Start Date	Analysis End Date	
11/05/2022	12/05/2022	12/05/2022	17/05/2022	
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	14.07
Sulphur Dioxide (SO ₂)	IS:5182 (PART 2):2017	µg/cum	80.00	14.50
Oxides of Nitrogen(NO _x)	IS:5182 (PART 6):2018	µg/cum	80.00	16.00
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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TEST REPORT				
Test Report No: -	GESEC/PRO/AAQM/2022-23/05/752		Report Date	17/05/2022
Sample ID: -	GESEC/PRO/AAQM/2022-23/05/752			
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.	
09:40 AM	10:40 AM		60 Min	
Metrological Data/Environmental Conditions				
Ambient Temperature °C	29	Wet Bulb Temperature °C	21	
Dry Bulb Temperature °C	29	Relative Humidity % RH	48.7%	
Date of Sampling	Sample Receipt Date	Analysis Start Date	Analysis End Date	
11/05/2022	12/05/2022	12/05/2022	17/05/2022	
Name Of Instrument	Combined Sampler	Date Of Calibration	25/10/2021	
Calibration Certificate No.	CC20222100006078F	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	55.63
Particulate Matter (PM _{2.5})	IS:5182 (PART 24):2019	µg/cum	60.00	13.98
Sulphur Dioxide (SO ₂)	IS:5182 (PART 2):2017	µg/cum	80.00	15.00
Oxides of Nitrogen(NO _x)	IS:5182 (PART 6):2018	µg/cum	80.00	17.01
Note:				
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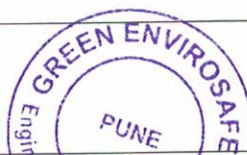
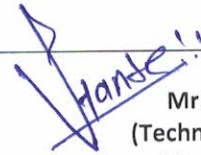
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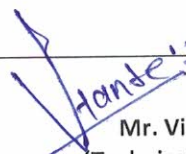
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TEST REPORT				
Test Report No: -	GESEC/PRO/AAQM/2022-23/05/753		Report Date	17/05/2022
Sample ID: -	GESEC/PRO/AAQM/2022-23/05/753			
Name & Address of the Customer	Nira Bhima Sahakari Sakhar Karkhana Limited (Distillery Unit) Shahajinagar, PO: Redni, 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.	
10:45 AM	11:45 AM		60 Min	
Metrological Data/Environmental Conditions				
Ambient Temperature °C	32	Wet Bulb Temperature °C	22	
Dry Bulb Temperature °C	32	Relative Humidity % RH	41.5%	
Date of Sampling	Sample Receipt Date	Analysis Start Date	Analysis End Date	
11/05/2022	12/05/2022	12/05/2022	17/05/2022	
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	61.23
Particulate Matter (PM _{2.5})	IS:5182 (PART 24):2019	µg/cum	60.00	21.47
Sulphur Dioxide (SO ₂)	IS:5182 (PART 2):2017	µg/cum	80.00	22.90
Oxides of Nitrogen(NO _x)	IS:5182 (PART 6):2018	µg/cum	80.00	26.58
Note:				
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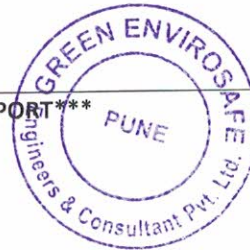
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TEST REPORT				
Test Report No: -	GESEC/PRO/AAQM/2022-23/05/754		Report Date	17/05/2022
Sample ID: -	GESEC/PRO/AAQM/2022-23/05/754			
Name & Address of the Customer	Nira Bhima Sahakari Sakhar Karkhana Limited (Distillery Unit) Shahajinagar, PO: Redni, 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.	
10:55 AM	11:55 AM		60 Min	
Metrological Data/Environmental Conditions				
Ambient Temperature °C	32	Wet Bulb Temperature °C	22	
Dry Bulb Temperature °C	32	Relative Humidity % RH	41.5%	
Date of Sampling	Sample Receipt Date	Analysis Start Date	Analysis End Date	
11/05/2022	12/05/2022	12/05/2022	17/05/2022	
Name Of Instrument	Combined Sampler	Date Of Calibration	25/10/2021	
Calibration Certificate No.	CC20222100006078F	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	60.33
Particulate Matter (PM _{2.5})	IS:5182 (PART 24):2019	µg/cum	60.00	20.14
Sulphur Dioxide (SO ₂)	IS:5182 (PART 2):2017	µg/cum	80.00	20.48
Oxides of Nitrogen(NO _x)	IS:5182 (PART 6):2018	µg/cum	80.00	25.11
Note:				
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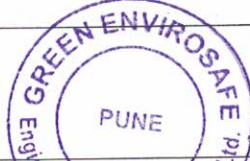
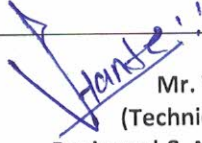
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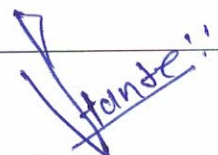
TEST REPORT				
Test Report No: -	GESEC/PRO/AAQM/2022-23/05/755	Report Date	17/05/2022	
Sample ID: -	GESEC/PRO/AAQM/2022-23/05/755			
Name & Address of the Customer	Nira Bhima Sahakari Sakhar Karkhana Limited (Distillery Unit) Shahajinagar, PO: Redni, Tal.: Indapur, Dist.: Pune - 413 114.			
AMBIENT AIR QUALITY MONITORING RESULTS				
Type	Sampling Location		Sampling done by	
Ambient Air	Near Office		GESEC	
Sampling Time				
Start Time	Stop Time		Total Hrs.	
11:05 AM	12:05 PM		60 Min	
Metrological Data/Environmental Conditions				
Ambient Temperature °C	33	Wet Bulb Temperature °C	22	
Dry Bulb Temperature °C	33	Relative Humidity % RH	37.9%	
Date of Sampling	Sample Receipt Date	Analysis Start Date	Analysis End Date	
11/05/2022	12/05/2022	12/05/2022	17/05/2022	
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	59.33
Particulate Matter (PM _{2.5})	IS:5182 (PART 24):2019	µg/cum	60.00	19.05
Sulphur Dioxide (SO ₂)	IS:5182 (PART 2):2017	µg/cum	80.00	18.77
Oxides of Nitrogen(NO _x)	IS:5182 (PART 6):2018	µg/cum	80.00	21.04
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/WZM/2022-23/05/756	Report Date	17/05/2022	
Sample ID: -	GESEC/PRO/WZM/2022-23/05/756			
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.	
11:15 AM	12:15 PM		60 Min	
Metrological Data/Environmental Conditions				
Ambient Temperature °C	33	Wet Bulb Temperature °C	22	
Dry Bulb Temperature °C	33	Relative Humidity % RH	37.9%	
Date of Sampling	Sample Receipt Date	Analysis Start Date	Analysis End Date	
11/05/2022	12/05/2022	12/05/2022	17/05/2022	
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	426.74
Sulphur Dioxide	IS:5182 (PART 2):2017	µg/cum	5000	17.50
Oxides of Nitrogen	IS:5182 (PART 6):2018	µg/cum	6000	19.95
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	

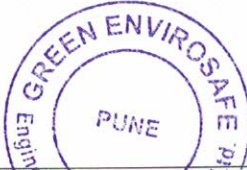

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TEST REPORT

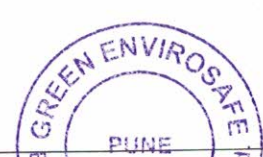
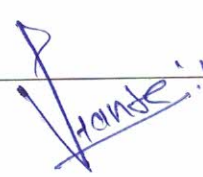
Test Report No: -	GESEC/PRO/WZM/2022-23/05/757	Report Date	17/05/2022	
Sample ID: -	GESEC/PRO/WZM/2022-23/05/757			
Name & Address of the Customer	Nira Bhima Sahakari Sakhar Karkhana Limited (Distillery Unit) Shahajinagar, PO: Redni, Tal.: Indapur, Dist.: Pune - 413 114.			
WORKZONE AIR QUALITY MONITORING RESULTS				
Type	Sampling Location	Sampling done by		
Ambient Air	Cane Yard	GESEC		
Sampling Time				
Start Time	Stop Time	Total Hrs.		
11:25 AM	12:25 PM	60 Min		
Metrological Data/Environmental Conditions				
Ambient Temperature °C	33	Wet Bulb Temperature °C	22	
Dry Bulb Temperature °C	33	Relative Humidity % RH	37.9%	
Date of Sampling	Sample Receipt Date	Analysis Start Date	Analysis End Date	
11/05/2022	12/05/2022	12/05/2022	17/05/2022	
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	410.89
Sulphur Dioxide	IS:5182 (PART 2):2017	µg/cum	5000	16.75
Oxides of Nitrogen	IS:5182 (PART 6):2018	µg/cum	6000	18.01
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/2022-23/05/758	Report Date	17/05/2022	
Sample ID: -	GESEC/PRO/WZM/2022-23/05/758			
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.		
11:35 AM	12:35 PM	60 Min		
Metrological Data/Environmental Conditions				
Ambient Temperature °C	34	Wet Bulb Temperature °C	22	
Dry Bulb Temperature °C	34	Relative Humidity % RH	34.6%	
Date of Sampling	Sample Receipt Date	Analysis Start Date	Analysis End Date	
11/05/2022	12/05/2022	12/05/2022	17/05/2022	
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	510.88
Sulphur Dioxide	IS:5182 (PART 2):2017	µg/cum	5000	15.96
Oxides of Nitrogen	IS:5182 (PART 6):2018	µg/cum	6000	19.82
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/2022-23/05/759		Report Date	17/05/2022
Sample ID: -	GESEC/PRO/ANLM/2022-23/05/759			
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	
11/05/2022	12/05/2022	12/05/2022	17/05/2022	
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 (12:10 P.M.)	Night Time (10:30 P.M.)	
Near Main Gate	dB(A)	64.8	58.0	During Day time = 75 dB (A) During Night time= 70 dB(A)
Near Molasses Tank	dB(A)	57.1	54.6	
Near Parking	dB(A)	64.9	57.0	
Near office	dB(A)	62.0	56.8	
Near Lagoon Plant	dB(A)	61.7	55.0	
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. 				
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- MoEF approved Lab by Govt. of India. From date. 16/02/2022 to 04/12/2022.

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/2022-23/05/760		Report Date	17/05/2022
Sample ID: -	GESEC/PRO/WNLM/2022-23/05/760			
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
11/05/2022	12/05/2022	12/05/2022		17/05/2022
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 (01.10 PM)	Night (11.30 PM)	
Distillation Section	dB(A)	81.6	75.8	≤ 90
Store Room	dB(A)	63.0	52.1	
Fermentation Section	dB(A)	74.2	68.5	
Alcohol Storage	dB(A)	63.0	63.9	
Cooling Tower	dB(A)	82.1	72.6	
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

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END OF REPORT