

A-7/2/C-11, Capital City, Talwade - Chakan Road, Chakan MIDC, PH-IV, Village Nighoje, Tal. Khed, Dist. Pune-410 501, Maharashtra.

Mob+ 9545084620, 8421365421 CIN No.: U74900PN2013PTC149666
E-mail: environsafetyeng@gmail.com, gesec12@gmail.com

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	TEST R	REPORT			
Test Report No: -	GESEC/PRO/AAQM/2022-23	/06/1263	Report Date	13/06/2022)
Sample ID: -	GESEC/PRO/AAQM/2022-23	3/06/1263	Report Date	13/00/2022	
Name & Address of the Customer	Nira Bhima Sahakari Sakhar (Distillery Unit) Shahajinagar, PO: Redni, Tal Dist.: Pune - 413 114.			150	
	Ambient Air S	Sample Details			
Туре	Samplir	ng Location		Sampling of	done by
Ambient Air	Village	01 (Redni)		GESE	EC .
	Sampli	ng Time			
Start Time	Stop Time			Total Hrs.	
08:00 AM	09:	09:00 AM			lin
	Metrological Data/En				
Ambient Temperature °C	24	Wet Bulb Temperature °C		20	
Dry Bulb Temperature °C	24	Relative Hun	nidity % RH	69.4%	
Date of Sampling	Sample Receipt Date	Analysis S	tart Date	Analysis End Da	
08/06/2022	09/06/2022	09/06/	/2022	13/06/2022	
Name Of Instrument	Fine Dust Sampler	Date Of Ca	alibration	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)		μg/cum	60.00	13.70
Sulphur Dioxide (SO ₂)	IS:5182 (PART 2):		μg/cum	80.00	12.62
Oxides of Nitrogen(NOx)	IS:5182 (PART 6):			80.00	15.95

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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	TEST R	EPORT			
Test Report No: -	GESEC/PRO/AAQM/2022-23	/06/1264	Report Date	13/06/2022	2
Sample ID: -	GESEC/PRO/AAQM/2022-23	/06/1264	Report Date	13/00/2022	
Name & Address of the Customer	Nira Bhima Sahakari Sakhar (Distillery Unit), Shahajinaga Dist.: Pune - 413 114.				
	Ambient Air S	Sample Details			
Туре	Samplin	g Location		Sampling	done by
Ambient Air	Village	02 (Bodni)		GESI	EC
	Sampli	ng Time		×	
Start Time	Sto	Total Hrs.			
09:00 AM	10:	10:00 AM			
	Metrological Data/Env				
Ambient Temperature oc	25	Wet Bulb Temperature oc		22	
Dry Bulb Temperature oc	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	5/2022	13/06/2022	
Name Of Instrument	Combined Sampler	Date Of (Calibration •	25/10/	2021
Calibration Certificate No.	CC202221000006078F	Due Date o	of Calibration	24/10/	2022
Parameters	Method	1,	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):		μg/cum	80.00	13.78
Oxides of Nitrogen(NOx)	IS:5182 (PART 6):	2018	μg/cum	80.00	17.05

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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Test Report No: -	GESEC/PRO/AAQM/2022-23/	06/1265	Report Date	13/06/202	2
Sample ID: -	GESEC/PRO/AAQM/2022-23/	06/1265	Report Date	13/00/2022	
Name & Address of the Customer	Nira Bhima Sahakari Sakhar K (Distillery Unit) Shahajinagar, Dist.: Pune - 413 114.				
	AMBIENT AIR QUALITY	MONITORING R	ESULTS		
Туре	Sampling	Location		Sampling	done by
Ambient Air	Near Ma	ain Gate		GESI	EC
	Sampling	g Time	•		
Start Time	Stop	Time		Total Hrs.	
10:00 AM	11:0	11:00 AM			
	Metrological Data/Envi	ronmental Con	ditions		
Ambient Temperature oc	29	Wet Bulb Temperature oc		25	
Dry Bulb Temperature oc	29	Relative Hu	midity % RH	72.4%	
Date of Sampling	Sample Receipt Date	Analysis S	Start Date	Analysis E	nd Date
08/06/2022	09/06/2022	09/06	/2022	13/06/2022	
Name of Instrument	High Volume Dust Sampler	Date Of C	Calibration	25/10/2021	
Calibration Certificate No.	LES-CCL/FF/MF/SC/1232	Due Date o	f Calibration	24/10/2022	
Parameters	Method		Unit	NAAQ Standards	Result
Particulate Matter (PM ₁₀)	IS:5182 (PART 4):2	019	μg/cum	100.00	60.63
Particulate Matter (PM _{2.5})	IS:5182 (PART 24):2		μg/cum	60.00	20.41
Sulphur Dioxide (SO ₂)	IS:5182 (PART 2):2		μg/cum	80.00	21.97
Oxides of Nitrogen(NO _x)	IS:5182 (PART 6):2	018	μg/cum	80.00	25.30

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	TEST RE	PORT			o
Test Report No: -	GESEC/PRO/AAQM/2022-23/	06/1266	Report Date	13/06/202	2
Sample ID: -	GESEC/PRO/AAQM/2022-23/	06/1266	Report Date	13/06/2022	
Name & Address of the Customer	Nira Bhima Sahakari Sakhar k (Distillery Unit) Shahajinagar, Dist.: Pune - 413 114.				
	AMBIENT AIR QUALITY	MONITORING RI	SULTS		
Туре	Sampling	Location		Sampling	done by
Ambient Air	Back Side	of Distillery		GES	EC
	Samplin	g Time			
Start Time	Stop	Stop Time			
10:15 AM	11:1	60 Min			
	Metrological Data/Envi	ironmental Cond	litions		
Ambient Temperature oc	29	Wet Bulb Temperature oc		25	
Dry Bulb Temperature °C	29	Relative Humidity % RH		72.4%	
Date of Sampling	Sample Receipt Date	Analysis S	tart Date	Analysis End Da	
08/06/2022	09/06/2022	09/06	/2022	13/06/	2022
Name of Instrument	Respirable Dust Sampler	Date Of C	alibration	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):2	1019	μg/cum	100.00	59.63
Particulate Matter (PM _{2.5})	IS:5182 (PART 24)::		μg/cum	60.00	18.84
Sulphur Dioxide (SO ₂)	IS:5182 (PART 2):2		μg/cum	80.00	18.52
Oxides of Nitrogen(NO _x)	IS:5182 (PART 6):2		μg/cum	80.00	23.79

Note:

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	TEST RE	PORT				
Test Report No: -	GESEC/PRO/AAQM/2022-23/	06/1267	Report Date	13/06/202	2	
Sample ID: -	GESEC/PRO/AAQM/2022-23/	06/1267	Report Date	13/00/2022		
Name & Address of the Customer	Nira Bhima Sahakari Sakhar K (Distillery Unit) Shahajinagar, Dist.: Pune - 413 114.					
	AMBIENT AIR QUALITY I	MONITORING R	ESULTS			
Туре		Location		Sampling	done by	
Ambient Air	Near	Office		GESI	EC	
	Samplin	g Time			_	
Start Time	Stop	Stop Time				
11:25 AM	12:2	12:25 PM				
	Metrological Data/Envi	ronmental Con	ditions			
Ambient Temperature o ^C	29	Wet Bulb Temperature oc		25		
Dry Bulb Temperature oc	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	5/2022	13/06/2022		
Name Of Instrument	High Volume Combined Sampler	Date Of 0	Calibration	25/10/2021		
Calibration Certificate No.	LES-CCL/FF/MF/SC/1234	Due Date o	f Calibration	24/10/	2022	
Parameters	Method		Unit	NAAQ Standards	Result	
Particulate Matter (PM ₁₀)	IS:5182 (PART 4):2	019	μg/cum	100.00	58.86	
Particulate Matter (PM _{2.5})	IS:5182 (PART 24):2		μg/cum	60.00	18.02	
Sulphur Dioxide (SO ₂)	IS:5182 (PART 2):2		μg/cum	80.00	16.79	
Oxides of Nitrogen(NOx)	IS:5182 (PART 6):2	018	μg/cum	80.00	20.31	

Note:

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	TEST RE	PORT			
Test Report No: -	GESEC/PRO/WZM/2022	-23/06/1268	Report Date	13/06/2022	
Sample ID: -	GESEC/PRO/WZM/2022	-23/06/1268	Report Date		
Name & Address of the Customer	Nira Bhima Sahakari Sak (Distillery Unit) Shahajir Dist.: Pune - 413 114.				
	WORKZONE AIR QUALITY	MONITORING	RESULTS		
Туре		ing Location		Sampling	done by
Ambient Air	Bag	asse Yard		GES	EC
0.4104	Samplin	g Time			
Start Time	St	op Time		Total Hrs.	
11:30 AM	1:	2:30 PM		60 Min	
	Metrological Data/Envi				
Ambient Temperature oc	30	Wet Bulb Temperature oc		25	
Dry Bulb Temperature o ^C	30	Relative Hu	midity % RH	66.7%	
Date of Sampling	Sample Receipt Date	Analysis S	Start Date	Analysis End Date	
08/06/2022	09/06/2022	09/06	/2022	13/06/2022	
		2 . 20	111 11	25/10	(2021
Name Of Instrument	Handy Sampler		alibration f Calibration	25/10/ 24/10/	
Calibration Certificate No.	CC202221000006086F	Due Date o	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		μg/cum	5000	16.81
Oxides of Nitrogen		IS:5182 (PART 6):2018		6000	18.00

Note:

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

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	TEST REI	PORT			
Test Report No: -	GESEC/PRO/WZM/2022-	23/06/1269	Report Date	13/06/2022	
Sample ID: -	GESEC/PRO/WZM/2022-	23/06/1269	Report Date		
Name & Address of the Customer	Nira Bhima Sahakari Sak (Distillery Unit) Shahajin Dist.: Pune - 413 114.				
	WORKZONE AIR QUALITY	MONITORING	RESULTS		
Туре		ng Location		Sampling	done by
Ambient Air	Ca	ne Yard		GESI	EC
	Sampling				
Start Time	Sto	p Time		Total Hrs.	
11:45 AM	12	60 Min			
	Metrological Data/Envir				
Ambient Temperature oc	30	Wet Bulb Temperature °C		25	
Dry Bulb Temperature ^{oC}	30	Relative Humidity % RH		66.7%	
Date of Sampling	Sample Receipt Date	Analysis S	Start Date	Analysis End Date	
08/06/2022	09/06/2022	09/06	/2022	13/06/2022	
Name of Instrument	Personal Sampler	Date of C	alibration	25/10/2021	
Calibration Certificate No.	CC202221000006075F	Due Date o	f 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)		μg/cum	5000	15.20
Oxides of Nitrogen	IS:5182 (PART 6)	.2018	μg/cum	6000	17.89

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Test Report No: -	GESEC/PRO/WZM/2022-	-23/06/1270	Report Date	13/06/2022	
Sample ID: -	GESEC/PRO/WZM/2022-	23/06/1270	Report Date		
Name & Address of the Customer	Nira Bhima Sahakari Sak (Distillery Unit) Shahajin Dist.: Pune - 413 114.				
	WORKZONE AIR QUALITY	MONITORING	RESULTS		
Type	Sampli	ing Location		Sampling	done by
Ambient Air	Ash	Storage		GESI	C
	Sampling	g Time			
Start Time	St	op Time		Total Hrs.	
12:00 PM	01	01:00 PM			lin
	Metrological Data/Envir				
Ambient Temperature oc	32	Wet Bulb Temperature oc		28	
Dry Bulb Temperature ^{oC}	32	Relative Humidity % RH		73.8%	
Date of Sampling	Sample Receipt Date	Analysis S	is Start Date Analysis E		nd Date
08/06/2022	09/06/2022	09/06	/2022	13/06/2022	
Name Of Instrument	Handy Sampler	Date Of C	Calibration	25/10/2021	
Calibration Certificate No.	CC202221000006086F	Due Date o	f 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	425.0
Sulphur Dioxide	IS:5182 (PART 2		μg/cum	5000	14.71
Oxides of Nitrogen	IS:5182 (PART 6)·2018	μg/cum	6000	17.96

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	TEST REPOR	T			
Test Report No: -	GESEC/PRO/ANLM/2022-2	3/06/1271	Donart Data	13/06/2022	
Sample ID: -	GESEC/PRO/ANLM/2022-2	3/06/1271	Report Date	13/00/2022	
Name & Address of the Customer	Nira Bhima Sahakari Sakha (Distillery Unit) Shahajina Dist.: Pune - 413 114.				
	Ambient Noise Sar	nple Details			
Туре	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 O	f Calibration	10/10/2021	
Calibration Certificate No.	ME.2021/10/21/002	Due Date	of Calibration	09/10/2022	
		Average Noi	se Level Readings	CPCB Standards	
Test Location	Unit	Day Time (12:30 P.M.)	Night Time (10:00 P.M.)	dB(A)	
Near Main Gate	dB(A)	63.0	56.9	During Day time	
Near Molasses Tank	dB(A)	58.6	53.4	During Day time = 75 dB (A)	
Near Parking	dB(A)	62.1	55.9	During Night time	
Near office	dB(A)	63.8	55.2	70 dB(A)	
Near Lagoon Plant	dB(A)	62.9	54.9	70 00(11)	

Remark-

 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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		TEST REPO	RT		
Test Report No: -	GESEC/PR	O/WNLM/2022-	23/06/1272	Report Date	13/06/2022
Sample ID: -	GESEC/PR	O/WNLM/2022-	23/06/1272	Report Date	
·	2				
	Nira Bhim	a Sahakari Sakh	ar Karkhana Limite	d	
Name & Address of the Customer	(Distillery	Unit) Shahajina	gar, PO: Redni, Tal.	: Indapur,	
		e - 413 114.			
9	W	ork Zone Noise S	Sample Details		
Туре	Work Zone	e Noise			
Sampling done by	GESEC				
Standard method	As Per IS: 9	9989:2020			
Date of Sampling	Sample R	Receipt Date	Analysis Start Date		Analysis End Date
08/06/2022	09/0	06/2022	09/06	5/2022	13/06/2022
Name Of Instrument	Digital So	und Level Meter	Date Of	Calibration	10/10/2021
Calibration Certificate No.	_	21/10/21/002		of Calibration	09/10/2022
Test Location		Unit		Level Readings	The Factories Act
			Day (01.20 PM)	Night (11.00 PM)	1948, standards
Distillation Section		dB(A)	80.9	74.3	-
Store Room		dB(A)	62.5	51.9	
Fermentation Section		dB(A)	73.0	66.8	≤ 90
Alcohol Storage		dB(A)	65.1	62.9	
Cooling Tower		dB(A)	80.7	73.0	

Remark-

• The Factories' Act, 1948 has prescribed Work Zone Noise Level threshold limit for 8 hours' exposure as 90 dB (A).

END OF REPORT 24

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

- 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.
 - 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 04/12/2022.