

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

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

		EPORT			
Test Report No: -	GESEC/PRO/AAQM/2022-23	GESEC/PRO/AAQM/2022-23/08/329			la la
Sample ID: -	GESEC/PRO/AAQM/2022-23/08/329 Report Date		20/08/2022		
Name & Address of the Customer	Nira Bhima Sahakari Sakhar (Distillery Unit) Shahajinagar, PO: Redni, Tal Dist.: Pune - 413 114.		l		Ð
	Ambient Air S	Sample Details			
Туре	Samplir	ng Location		Sampling of	
Ambient Air	Village	01 (Redni)		GESE	.C
	Sampli	ng Time			
Start Time	Stop Time			Total Hrs.	
10:00 AM	11:00 AM			60 Min	
	Metrological Data/En	vironmental Cond	litions		
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 S	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 C	alibration	06/09/2021	
Calibration Certificate No.	235	Due Date of	Calibration	05/09/2022	
Parameters	Method		Unit	NAAQ Standards	Result
Particulate Matter (PM <sub>10</sub> )	IS:5182 (PART 4)	:2019	μg/cum	100.00	53.36
Particulate Matter (PM <sub>2.5</sub> )	IS:5182 (PART 24)		μg/cum	60.00	15.02
Sulphur Dioxide (SO <sub>2</sub> )	IS:5182 (PART 2)		μg/cum	80.00	14.78
Oxides of Nitrogen(NOx)	IS:5182 (PART 6)		μg/cum	80.00	16.95

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	20/08/202	2		
Sample ID: -	GESEC/PRO/AAQM/2022-23	20/08/202			
Name & Address of the Customer	Nira Bhima Sahakari Sakhar (Distillery Unit), Shahajinaga Dist.: Pune - 413 114.				
	Ambient Air S	ample Details	÷		
Туре	Samplin	g Location		Sampling of	done by
Ambient Air	Village (	02 (Bodni)		GESE	C
	Samplir	ng Time			
Start Time	Stor	Time		Total Hrs.	
11:00 AM	12:00 PM			60 Min	
	Metrological Data/Env	ironmental Cor	nditions		
Ambient Temperature o <sup>C</sup>	28	Wet Bulb Temperature oc		25	
Dry Bulb Temperature oc	28	Relative Humidity % RH		78.5%	
Date of Sampling	Sample Receipt Date	Analysis Start Date		Analysis E	nd Date
13/08/2022	16/08/2022	16/0	8/2022	20/08/2022	
Name Of Instrument	Combined Sampler	Date Of	Calibration	25/10/2	2021
Calibration Certificate No.	CC202221000006078F	Due Date o	of Calibration	24/10/	
Parameters	Method		Unit	NAAQ Standards	Result
Particulate Matter (PM <sub>10</sub> )	IS:5182 (PART 4):2	2019	μg/cum	100.00	57.13
Particulate Matter (PM <sub>2.5</sub> )	IS:5182 (PART 24):		μg/cum	60.00	17.52
Sulphur Dioxide (SO <sub>2</sub> )	IS:5182 (PART 2):2		μg/cum	80.00	16.91
Oxides of Nitrogen(NO <sub>x</sub> )	IS:5182 (PART 6):2	2018	μg/cum	80.00	18.25

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	TEST REF	PORT			
Test Report No: -	GESEC/PRO/AAQM/2022-23/08/331 Report Date			20/08/2022	
Sample ID: -	GESEC/PRO/AAQM/2022-23/0	nepon out			
Name & Address of the Customer	Nira Bhima Sahakari Sakhar Ka (Distillery Unit) Shahajinagar, Dist.: Pune - 413 114.				
	AMBIENT AIR QUALITY N	ONITORING R	ESULTS		
Туре	Sampling			Sampling o	lone by
Ambient Air	Near Ma	in Gate		GESE	.C
	Sampling	Time	·		
Start Time	Stop Time			Total Hrs.	
12:00 PM	01:00	60 Min			
	Metrological Data/Envir	onmental Con	ditions		
Ambient Temperature oc	29	Wet Bulb Temperature oc		27	
Dry Bulb Temperature oc	29	Relative Humidity % RH		85.7%	
Date of Sampling	Sample Receipt Date	Analysis	Start Date	Analysis E	nd Date
13/08/2022	16/08/2022		3/2022	20/08/2022	
13/00/2022	20,00,200				
Name of Instrument	High Volume Dust Sampler		Calibration	25/10/2021	
Calibration Certificate No.	LES-CCL/FF/MF/SC/1232	Due Date o	of Calibration	24/10/	2022
Parameters	Method	Method		NAAQ Standards	Result
Particulate Matter (PM <sub>10</sub> )	IS:5182 (PART 4):20	019	μg/cum	100.00	60.13
Particulate Matter (PM <sub>2.5</sub> )	IS:5182 (PART 24):2		μg/cum	60.00	20.58
Sulphur Dioxide (SO <sub>2</sub> )	IS:5182 (PART 2):2		μg/cum	80.00	19.63
Oxides of Nitrogen(NOx)	IS:5182 (PART 6):2			80.00	23.10

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/	Report Date	20/08/2022			
Sample ID: -	GESEC/PRO/AAQM/2022-23/	Report Date	20,00,202			
Name & Address of the	Nira Bhima Sahakari Sakhar K					
Customer		(Distillery Unit) Shahajinagar, PO: Redni, Tal.: Indapur, Dist.: Pune - 413 114.				
	Dist.: Pune - 413 114.					
	AMBIENT AIR QUALITY I	MONITORING R	ESULTS			
Туре	Sampling	Location		Sampling of	lone by	
Ambient Air	Back Side	of Distillery		GESE	C	
Amorete	Samplin	g Time				
Start Time	Stop Time			Total Hrs.		
12:10 PM	01:10 PM			60 Min		
	Metrological Data/Envi	ronmental Con	ditions			
Ambient Temperature oc	29	Wet Bulb Temperature oc		27		
Dry Bulb Temperature oc	29	Relative Humidity % RH		85.7%		
Date of Sampling	Sample Receipt Date	Analysis	Start Date	Analysis E	nd Date	
13/08/2022	16/08/2022	16/08	3/2022	20/08/2022		
13/00/2022						
Name of Instrument	Respirable Dust Sampler		Calibration	25/10/		
Calibration Certificate No.	LES-CCL/FF/MF/SC/1235	Due Date o	f Calibration	24/10/	2022	
Parameters	Method		Unit	NAAQ Standards	Result	
Particulate Matter (PM <sub>10</sub> )	IS:5182 (PART 4):2	2019	μg/cum	100.00	59.16	
Particulate Matter (PM <sub>2.5</sub> )	IS:5182 (PART 24):		μg/cum	60.00	19.01	
Sulphur Dioxide (SO <sub>2</sub> )	IS:5182 (PART 2):2		μg/cum	80.00	18.25	
			μg/cum	80.00	22.78	
Oxides of Nitrogen(NOx)  Note:	15:5182 (PART 6):2	IS:5182 (PART 6):2018		The second secon		

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	TEST RE	PORT			
Test Report No: -	GESEC/PRO/AAQM/2022-23/08/333 Report Date			20/08/2022	
Sample ID: -	GESEC/PRO/AAQM/2022-23/	08/333	Перетго		
Name & Address of the Customer	Nira Bhima Sahakari Sakhar K (Distillery Unit) Shahajinagar, Dist.: Pune - 413 114.				
	AMBIENT AIR QUALITY	MONITORING	RESULTS		
Tuno		Location		Sampling of	one by
Type Ambient Air		Office		GESE	C
Allibiett All	Samplin				
Start Time	<u> </u>	Time		Total I	Hrs.
12:20 PM		01:20 PM			in
22120 7 777	Metrological Data/Envi	ronmental Co	nditions		
Ambient Temperature oc	30	Wet Bulb Temperature oc		27	
Dry Bulb Temperature oc	30	Relative Humidity % RH		79.3%	
Date of Sampling	Sample Receipt Date	Analysis Start Date		Analysis E	nd Date
13/08/2022	16/08/2022	16/0	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	Method		NAAQ Standards	Result
Particulate Matter (PM <sub>10</sub> )	IS:5182 (PART 4):2	2019	μg/cum	100.00	57.63
Particulate Matter (PM <sub>2.5</sub> )	IS:5182 (PART 24):		μg/cum	60.00	16.85
Sulphur Dioxide (SO <sub>2</sub> )	IS:5182 (PART 2):2		μg/cum	80.00	16.42
Oxides of Nitrogen(NOx)	IS:5182 (PART 6):2		μg/cum	80.00	19.77
Note:	13.3182 (FART 0).2	.010			

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	TEST REI	PORT		yes — — — — — — — — — — — — — — — — — — —	
Test Report No: -	GESEC/PRO/WZM/2022-23/08/334 Report Date			20/08/2022	
Sample ID: -	GESEC/PRO/WZM/2022-				
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
Work zone Air	Bag	asse Yard		GESI	EC
	Sampling	Time			
Start Time	Sto	op Time		Total Hrs.	
12:30 PM	01	60 Min			
	Metrological Data/Envir	onmental Con	ditions		
Ambient Temperature oc	30		mperature °C	27	
Dry Bulb Temperature <sup>oC</sup>	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	3/2022	20/08/2022	
Name Of Instrument	Handy Sampler	Date Of C	Calibration	on 25/10/2023	
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	310.46
Sulphur Dioxide	IS:5182 (PART 2		μg/cum	5000	16.77
	IS:5182 (PART 6):2018		μg/cum		18.95

# 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-	23/08/335	Report Date	20/08/2022
Sample ID: -	GESEC/PRO/WZM/2022-	23/08/335		
	Nira Bhima Sahakari Sak			
Name & Address of the Customer	(Distillery Unit) Shahajin	agar, PO: Redni	i, Tal.: Indapur,	
	Dist.: Pune - 413 114.			
	WORKZONE AIR QUALITY	MONITORING I	RESULTS	
Type	Sampli	ng Location		Sampling done by
Work zone <b>Air</b>	Ca	ne Yard		GESEC
	Sampling	g Time		
Start Time	Stop Time			Total Hrs.
12:40 PM	01	01:40 PM		
	Metrological Data/Envir	onmental Cond	ditions	
Ambient Temperature oc	30	Wet Bulb Te	mperature <sup>oC</sup>	27
Dry Bulb Temperature oC	30	Relative Hu	midity % 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 C	alibration	25/10/2021
Calibration Certificate No.	CC202221000006075F	Due Date of Calibration		24/10/2022

Parameters	Method	The U Factorio n Act 194 standar	8, 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

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	TEST REF	PORT				
Test Report No: -	GESEC/PRO/WZM/2022-23/08/336 Report Date			20/08/2022		
Sample ID: -	GESEC/PRO/WZM/2022-	23/08/336	Report Date			
	Nira Bhima Sahakari Saki					
Name & Address of the Customer	(Distillery Unit) Shahajinagar, PO: Redni, Tal.: Indapur, Dist.: Pune - 413 114.					
	Dist.: Fulle - 415 114.					
	WORKZONE AIR QUALITY	MONITORING	RESULTS			
Type	Sampli	ng Location		Sampling of	done by	
Work zone Air	Ash	Storage		GESE	C	
	Sampling	Time				
Start Time	Sto	p Time		Total Hrs.		
12:50 PM	01	60 Min				
	Metrological Data/Envir	onmental Con	ditions			
Ambient Temperature oc	31	Wet Bulb Temperature oc		28		
Dry Bulb Temperature oc	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	8/2022	20/08/2022		
				25/10/	2021	
Name Of Instrument	Handy Sampler	THE RESIDENCE AND A STATE OF	Calibration of Calibration	24/10/		
Calibration Certificate No.	CC202221000006086F	Due Date d	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)		μg/cum	5000	15.61	
Oxides of Nitrogen	IS:5182 (PART 6)		μg/cum	6000	17.42	

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Test Report No: -	GESEC/PRO/ANL	M2022-23/0	08/337	Report Date	20/08/2022
Sample ID: -	GESEC/PRO/ANLM/2022-23/08/337			Report Date	20/00/
Sample 15.					
	Nira Bhima Saha	kari Sakhar	Karkhana Limited		
Name & Address of the Customer	(Distillery Unit) S	hahajinaga	, PO: Redni, Tal.:	Indapur,	
Name a riadical area	Dist.: Pune - 413	114.			
	·				
	Ambient	Noise Samp	ole Details		
Туре	Ambient Noise				
Sampling done by	GESEC				
Standard method	As Per IS: 9989:2	020			
			A b t-	Start Date	Analysis End Date
Date of Sampling	Sample Recei		Analysis Start Date		20/08/2022
13/08/2022	16/08/20	)22	16/08/2022		20/08/2022
	Digital Sound Le	wol Motor	Date Of	Calibration	10/10/2021
Name Of Instrument			Due Date of Calibration		09/10/2022
Calibration Certificate No.	ME.2021/10/	21/002	Due Date (	or Calibration	03/10/101
			Average Nois	CPCB Standards	
Test Location	ı	Jnit	Day Time (01:15 P.M.)	Night Time (11:00 P.M.)	dB(A)
Near Main Gate	d	B(A)	64.1	56.9	During Day time =
Near Molasses Tank		B(A)	58.7	53.0	75 dB (A)
Near Parking		B(A)	65.8	58.7	During Night time
Near office		B(A)	61.2	54.6	70 dB(A)
Near Lagoon Plant		B(A)	63.0	57.0	1337

#### 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. donse'.

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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 REPO	RT		
Test Report No: -	GESEC/PRO/WNLM/2022-23/08/338			Report Date	20/08/2022
Sample ID: -	GESEC/	GESEC/PRO/WNLM/2022-23/08/338			
	Nira Bhima Sahakari Sakhar Karkhana Limited				
Name & Address of the Customer	(Distille	ry Unit) Shahajina	gar, PO: Redni, Tal.	: Indapur,	
	Dist.: Pune - 413 114.				
	1	Work Zone Noise S	Sample Details		
Туре	Work Zo	one Noise			
Sampling done by	GESEC				
Standard method	As Per I	S: 9989:2020			
Date of Sampling	Sampl	Sample Receipt Date Analysis Start Date			Analysis End Dat
13/08/2022	16	5/08/2022	16/08/2022		20/08/2022
			2.1.0	C-lib-anti-an	10/10/2021
Name Of Instrument	-	Sound Level Meter		Calibration	
Calibration Certificate No.	ME.	2021/10/21/002	Due Date	of Calibration	09/10/2022
T-11		Unit	Average Noise Level Readings		The Factories Ac
Test Location		Unit	Day (02.00 PM)	Night (11.40 PM)	1948, standards
Distillation Section		dB(A)	83.5	76.4	
Store Room		dB(A)	62.8	57.0	
Fermentation Section		dB(A)	74.3	67.2	≤ 90
Alcohol Storage		dB(A)	67.6	62.5	
Cooling Tower		dB(A)	78.5	70.1	

# Remark-

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

\*\*\*END OF REPORT

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

Terms and conditions

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.

3. 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.