

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

	TEST R	EPORT			
Test Report No: -	GESEC/PRO/AAQM/2022-23	/07/767	Report Date	18/07/2022	
Sample ID: -	GESEC/PRO/AAQM/2022-23		Report Date	10/07/2022	
	Nira Bhima Sahakari Sakhar	Karkhana Limited	E		
Name & Address of the	(Distillery Unit)	5 5-5 PSS			
Customer	Shahajinagar, PO: Redni, Tal	.: Indapur,			
	Dist.: Pune - 413 114.				
	Ambient Air S	ample Details			
Туре	7-00-1-00-1-00-1-00-1-00-1-00-1-00-1-00	g Location		Sampling o	lone by
Ambient Air	Village 01 (Redni)			GESE	C
Allibient All		ng Time	•		
Start Time	Sto	Total Hrs.			
09:00 AM	10:	60 Min			
03.007111	Metrological Data/Env	rironmental Cond	itions		
Ambient Temperature °C	23	Wet Bulb Ten	nperature °C	20	
Dry Bulb Temperature °C	23	Relative Hur	nidity % RH	76.1%	
Date of Sampling	Sample Receipt Date	Analysis S	tart Date	Analysis End Date	
13/07/2022	14/07/2022	14/07/	/2022	18/07/	2022
		5 / 016	Ille and have	06/00/	2021
Name Of Instrument	Fine Dust Sampler	Date Of Ca		06/09/2021 05/09/2022	
Calibration Certificate No.	235	Due Date of	Calibration	03/03/	2022
				NAAQ	Result
Parameters	Method		Unit	Standards	
Particulate Matter (PM <sub>10</sub> )	IS:5182 (PART 4):	:2019	μg/cum	100.00	50.33
Particulate Matter (PM <sub>2.5</sub> )	IS:5182 (PART 24)		μg/cum	60.00	12.47
Sulphur Dioxide (SO <sub>2</sub> )	IS:5182 (PART 2):		μg/cum	80.00	11.96
Oxides of Nitrogen(NOx)	IS:5182 (PART 6):	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 18th November 2009.

\*\*\*END OF REPORT\*\*\*

Consultant PV

Mr. Vinod Hande (Technical Manager)

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# Terms and conditions

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	TEST RE	PORT			
Test Report No: -	GESEC/PRO/AAQM/2022-23/	07/768	Report Date	18/07/2022	
Sample ID: -	GESEC/PRO/AAQM/2022-23/		Report Date	10/0//2022	
Sample 15.					
Name & Address of the Customer	Nira Bhima Sahakari Sakhar K (Distillery Unit), Shahajinagar Dist.: Pune - 413 114.	arkhana Limited , PO: Redni, Tal.:	Indapur,		
	Ambient Air Sa	ample Details			
Туре		g Location		Sampling of GESE	
Ambient Air	Village 0	Village 02 (Bodni)			
Ambient Air	Samplin	g Time			
Start Time	Stop	Stop Time			
10:00 AM	11:0	60 Min			
10.00 AW	Metrological Data/Env	ironmental Cond	litions		
Ambient Temperature <sup>oC</sup>	24	Wet Bulb Temperature oc		22	
Dry Bulb Temperature oc	24	Relative Humidity % RH		84.1%	
Date of Sampling	Sample Receipt Date	Analysis S	Start Date	Analysis E	nd Date
	14/07/2022	14/07		18/07/	2022
13/07/2022	14/07/2022				
Name Of Instrument	Combined Sampler	Date Of C	alibration	25/10/	
Calibration Certificate No.	CC202221000006078F	Due Date of	Calibration	24/10/	2022
Parameters	Method		Unit	NAAQ Standards	Result
Particulate Matter (PM <sub>10</sub> )	IS-5182 (PART 4)-	IS:5182 (PART 4):2019		100.00	54.23
	IS:5182 (PART 24)		μg/cum	60.00	14.86
Particulate Matter (PM <sub>2.5</sub> )	IS:5182 (PART 24)		μg/cum	80.00	13.00
Sulphur Dioxide (SO <sub>2</sub> )			μg/cum	80.00	16.95
Oxides of Nitrogen(NOx)	IS:5182 (PART 6):	2018	MD/ COIT	00.00	

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	TEST REF	PORT				
Test Report No: -	GESEC/PRO/AAQM/2022-23/0	7/769	Report Date	18/07/2022		
Sample ID: -	GESEC/PRO/AAQM/2022-23/0	07/769	Report bate	20/01/20		
Name & Address of the	Nira Bhima Sahakari Sakhar Ka					
Customer	(Distillery Unit) Shahajinagar,	PO: Redni, Tal.:	inuapui,			
	Dist.: Pune - 413 114.					
	AMBIENT AIR QUALITY N	ONITORING RE	SULTS			
Turns	Sampling			Sampling of	lone by	
Type Ambient Air		Near Main Gate				
Ambient Aii	Sampling	g Time				
Start Time	Stop	Time		Total Hrs.		
11:20 AM	12:20	60 Min				
11.20 / 111	Metrological Data/Envi	ronmental Cond	litions			
Ambient Temperature oc	27	Wet Bulb Temperature oc		26		
Dry Bulb Temperature oc	27	Relative Humidity % RH		92.4%		
Date of Sampling	Sample Receipt Date	Analysis S	Start Date Analysis End		nd Date	
13/07/2022	14/07/2022	14/07	/2022	18/07/2022		
		Date Of C	alibration	25/10/	2021	
Name of Instrument	High Volume Dust Sampler LES-CCL/FF/MF/SC/1232	Due Date of		24/10/	-	
Calibration Certificate No.	LES-CCL/FF/INIF/3C/1232	Due Dute o.				
Parameters	Method		Unit	NAAQ Standards	Result	
Particulate Matter (PM <sub>10</sub> )	IS:5182 (PART 4):2	019	μg/cum	100.00	58.63	
Particulate Matter (PM <sub>2.5</sub> )	IS:5182 (PART 24):2		μg/cum	60.00	16.02	
Sulphur Dioxide (SO <sub>2</sub> )		IS:5182 (PART 24):2017		80.00	18.89	
			μg/cum	80.00	21.43	
Oxides of Nitrogen(NOx)  Note:	IS:5182 (PART 6):2	2018	дв/син	80.00		

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	TEST REI	PORT			
Test Report No: -	GESEC/PRO/AAQM/2022-23/0	7/770	Report Date	18/07/2022	
Sample ID: -	GESEC/PRO/AAQM/2022-23/0		Report Date		
Sample 151					
0 4 1 1 of the	Nira Bhima Sahakari Sakhar Ka	arkhana Limited	 		
Name & Address of the Customer	(Distillery Unit) Shahajinagar,	PO: Redni, Tal.:	Indapur,		
Customer	Dist.: Pune - 413 114.	-			
	AMBIENT AIR QUALITY	MONITORING RE	SULTS		
_		Location		Sampling d	one by
Туре	Back Side o	GESE	С		
Ambient Air	Sampling				
		Time		Total Hrs.	
Start Time	12:3	60 Min			
11:30 AM			ditions		
or	Metrological Data/Environmental Conditions  27 Wet Bulb Temperature of		mperature oc	26	
Ambient Temperature oc			midity % RH	92.4%	
Dry Bulb Temperature <sup>oC</sup>	27	Relative Hu	indicy 70 ini		
Date of Sampling	Sample Receipt Date	Analysis S	Start Date	Analysis End Date	
13/07/2022	14/07/2022	14/07	/2022	18/07/	2022
13/01/2022				25/10/	2021
Name of Instrument	Respirable Dust Sampler		Calibration	25/10/2021 24/10/2022	
Calibration Certificate No.	LES-CCL/FF/MF/SC/1235	Due Date o	f Calibration	24/10/	2022
				NAAQ	- 1
Parameters	Method		Unit	Standards	Result
2 Lata Matter (DNA)	IS:5182 (PART 4):2	2019	μg/cum	100.00	57.13
Particulate Matter (PM <sub>10</sub> )			μg/cum	60.00	15.79
Particulate Matter (PM <sub>2.5</sub> )	IS:5182 (PART 24):		μg/cum	80.00	16.20
Sulphur Dioxide (SO <sub>2</sub> )	IS:5182 (PART 2):2		μg/cum	80.00	18.45
Oxides of Nitrogen(NOx)	IS:5182 (PART 6):2	2018	µg/ cuiii	00.00	

Note:

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> \*\*\*END OF REPOR Consultant Pvt. Ltd

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	TEST REPO	ORT					
Test Report No: -	GESEC/PRO/AAQM/2022-23/07	/771	Report Date	18/07/2022			
Sample ID: -	GESEC/PRO/AAQM/2022-23/07		Report Date				
Sample 10.							
Name & Address of the Customer	Nira Bhima Sahakari Sakhar Kar (Distillery Unit) Shahajinagar, Po Dist.: Pune - 413 114.	khana Limited O: Redni, Tal.:	Indapur,				
			CLUTC				
	AMBIENT AIR QUALITY MO		SULIS	Sampling d	one hy		
Туре	Sampling L	124		GESE			
Ambient Air		Near Office					
	Sampling			Total H	lrc .		
Start Time	Stop T			60 Min			
11:45 AM	12:45	60 1011	11				
	Metrological Data/Enviro	onmental Cond	litions	26			
Ambient Temperature oc	28	Wet Bulb Temperature oc		85.4%			
Dry Bulb Temperature oc	28	Relative H	umidity % RH	85.470			
		A a luncio	Start Date	Analysis Er	nd Date		
Date of Sampling	Sample Receipt Date		7/2022	18/07/2022			
13/07/2022	14/07/2022	14/0	1/2022	20,017			
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		
Calibration Certificate No.	223 303, 11, 11						
Parameters	Method		Unit	NAAQ Standards	Result		
a Lata Matter (DM - )	IS:5182 (PART 4):20	)19	μg/cum	100.00	56.13		
Particulate Matter (PM <sub>10</sub> )	IS:5182 (PART 24):2		μg/cum	60.00	14.02		
Particulate Matter (PM <sub>2.5</sub> )	IS:5182 (PART 2):20		μg/cum	80.00	15.64		
Sulphur Dioxide (SO <sub>2</sub> )			μg/cum	80.00	17.89		
Oxides of Nitrogen(NOx)	IS:5182 (PART 6):20	)18	PO/ 00				

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	TEST REF	PORT			
Test Report No: -	GESEC/PRO/WZM/2022-	23/07/772	Report Date	18/07/2022	
Sample ID: -	GESEC/PRO/WZM/2022-		Report Date		
Compression					110000000000000000000000000000000000000
Name & Address of the Customer	Nira Bhima Sahakari Sak (Distillery Unit) Shahajin Dist.: Pune - 413 114.	nar Karkhana I agar, PO: Redr	Limited ni, Tal.: Indapur,		
1	WORKZONE AIR QUALITY	MONITORING	RESULTS		
Туре		ng Location		Sampling d	one by
Ambient Air	Bag	GESE	С		
Ambient An	Sampling	Time			
	Ste	Total Hrs.			
Start Time	12	60 Min			
11:55 AM	Metrological Data/Envir		ditions		
Ambient Temperature oc	29	Wet Bulb Temperature oc		26	
Dry Bulb Temperature oc	29		umidity % RH	78.9%	
Diy Daile Ferri					
Date of Sampling	Sample Receipt Date		Start Date	Analysis End Date	
13/07/2022	14/07/2022	14/0	7/2022	18/07/2022	
		Data Of	Calibration	25/10/	2021
Name Of Instrument	Handy Sampler CC202221000006086F		of Calibration	24/10/	
Calibration Certificate No.	CC2022210000000801	Due Dute			
Parameters	Method		Unit	The Factories Act 1948, standards	Result
Suspended Particulate Matter (SPM)	IS:5182 (PART 4):2019		μg/cum	10000	240.4
Sulphur Dioxide	IS:5182 (PART 2		μg/cum	5000	14.05
Oxides of Nitrogen	IS:5182 (PART 6		μg/cum	6000	16.87

# Note:

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

\*\*\*END OF REPORT\*\*\*

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µg/cum

µg/cum

ug/cum

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	TEST REP	ORT				
Test Report No: -	GESEC/PRO/WZM/2022-7	23/07/773	Report Date	18/07/2022		
Sample ID: -	GESEC/PRO/WZM/2022-		Report Bate			
Sample 15.						
	Nira Bhima Sahakari Sakh	nar Karkhana	Limited			
Name & Address of the Customer	(Distillery Unit) Shahajinagar, PO: Redni, Tal.: Indapur,					
	Dist.: Pune - 413 114.					
			DECLUTE			
	WORKZONE AIR QUALITY		RESULIS	Compling	done by	
Туре	Sampling Location			Sampling done by		
Ambient Air	Ca	GESEC				
	Sampling	Time				
Start Time	Sto	Total Hrs.				
12:10 PM	01	60 Min				
	Metrological Data/Envir	onmental Cor	nditions	20		
Ambient Temperature oc	29		emperature <sup>oc</sup>	26		
Dry Bulb Temperature oc	29	Relative H	umidity % RH	78.9%		
			Start Date	Analysis F	nd Date	
Date of Sampling	Sample Receipt Date		Start Date	Analysis End Date 18/07/2022		
13/07/2022	14/07/2022	14/0	7/2022	18/07/	2022	
	Daves and Complex	Date of	Calibration	25/10/	2021	
Name of Instrument	CC202221000006075F	reisonal sampler		24/10/2022		
Calibration Certificate No.	CC2022210000000731	Duc Dute	01 0011101			
				The		
		Method		Factories	Result	
Parameters	Method			Act 1948,	Result	
				standards		
S and A Porticulate Matter (SPM)	IC.F192 (DART A	1.2010	μg/cum	10000	263.73	

IS:5182 (PART 4):2019

IS:5182 (PART 2):2017

IS:5182 (PART 6):2018

# Note:

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13.58

16.00

5000

6000

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Suspended Particulate Matter (SPM)

Sulphur Dioxide

Oxides of Nitrogen

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TEST REP	ORT				
GESEC/PRO/WZM/2022-	23/07/774	Report Date	18/07/2022		
GESEC/PRO/WZM/2022-	23/07/774	Report Date			
Nira Bhima Sahakari Sakh (Distillery Unit) Shahajina Dist.: Pune - 413 114.	nar Karkhana agar, PO: Redr	Limited ni, Tal.: Indapur,			
WORKZONE AIR QUALITY	MONITORING	RESULTS			
	Sampling Location				
Ash	GESE	C			
Sampling	Time				
Sto	Total Hrs.				
01	60 Min				
Metrological Data/Envir	onmental Cor	nditions			
29	Wet Bulb Temperature oc				
29	Relative H	umidity % RH	78.9%		
Sample Receipt Date	Analysis	Start Date	Analysis E	nd Date	
			18/07/	2022	
14/0//2022					
Handy Sampler	Date Of	Calibration			
CC202221000006086F	Due Date	of Calibration	24/10/	2022	
Method		Unit	The Factories Act 1948, standards	Result	
IS:5182 (PART 4	):2019	μg/cum	10000	274.20	
IS:5182 (PART 2):2017		μg/cum	5000	13.95	
IS:5182 (PART 2	):2017	µg/cum	5000	1 100 -000 000	
	GESEC/PRO/WZM/2022- GESEC/PRO/WZM/2022- Nira Bhima Sahakari Saki (Distillery Unit) Shahajina Dist.: Pune - 413 114.  WORKZONE AIR QUALITY Sampling Store O1 Metrological Data/Envir 29 29  Sample Receipt Date 14/07/2022  Handy Sampler CC202221000006086F  Method  IS:5182 (PART 4	(Distillery Unit) Shahajinagar, PO: Rediction Dist.: Pune - 413 114.  WORKZONE AIR QUALITY MONITORING Sampling Location Ash Storage Sampling Time  Stop Time  01:20 PM  Metrological Data/Environmental Cor 29 Wet Bulb T 29 Relative H  Sample Receipt Date Analysis 14/07/2022 14/0  Handy Sampler Date Of CC202221000006086F Due Date  Method  IS:5182 (PART 4):2019	GESEC/PRO/WZM/2022-23/07/774  GESEC/PRO/WZM/2022-23/07/774  Nira Bhima Sahakari Sakhar Karkhana Limited (Distillery Unit) Shahajinagar, PO: Redni, Tal.: Indapur, Dist.: Pune - 413 114.  WORKZONE AIR QUALITY MONITORING RESULTS  Sampling Location  Ash Storage  Sampling Time  Stop Time  01:20 PM  Metrological Data/Environmental Conditions  29 Wet Bulb Temperature occ  29 Relative Humidity % RH  Sample Receipt Date  14/07/2022  Handy Sampler  CC202221000006086F  Due Date of Calibration  Method  Unit  IS:5182 (PART 4):2019  µg/cum	SeseC/PRO/WZM/2022-23/07/774   Report Date   18/07/2022	

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IS:5182 (PART 6):2018



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Sample ID: -	GESEC/PI	RO/ANLM/2022-23/	07/775	пероперато			
Sumple 15.							
	Nira Bhir	na Sahakari Sakhar	Karkhana Limited	(			
Name & Address of the Customer	(Distillery Unit) Shahajinagar, PO: Redni, Tal.: Indapur,						
Nume a real section of	Dist.: Pune - 413 114.						
	Α	mbient Noise Samp	le Details				
Туре	Ambient	Noise					
Sampling done by	GESEC						
Standard method	As Per IS: 9989:2020						
			Analysis	Start Date	Analysis End Date		
Date of Sampling	Sample Receipt Date		Analysis Start Date 14/07/2022		18/07/2022		
13/07/2022	1	4/07/2022	14/0	7/2022	10/07/2022		
Name Of Instrument	Digital S	ound Level Meter	Date Of	Calibration	10/10/2021		
	0	021/10/21/002	Due Date	of Calibration	09/10/2022		
Calibration Certificate No.	1712.2	021/10/21/002					
			Average Noise Level Readings		CPCB Standards		
Test Location		Unit	Day Time (01:00 P.M.)	Night Time (10:30 P.M.)	dB(A)		
Near Main Gate		dB(A)	62.3	55.4	During Day time :		
Near Molasses Tank		dB(A)	60.5	54.9	75 dB (A)		
Near Parking		dB(A)	64.0	56.1	During Night time		
Near office		dB(A)	60.9	53.2	70 dB(A)		
Near Lagoon Plant		dB(A)	61.9	53.8			

## 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.

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

\*\*\*END OF REPOR onsultant ?

#### 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.

3. 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. 4.

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.



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

	TEST	REPORT	Γ				
Test Report No: -	GESEC/PRO/WNLM/	/2022-23	3/07/776	Report Date	18/07/2022		
Sample ID: -	GESEC/PRO/WNLM/			Report Date			
Sample 15.							
Name & Address of the Customer	(Distillery Unit) Shah	Nira Bhima Sahakari Sakhar Karkhana Limited (Distillery Unit) Shahajinagar, PO: Redni, Tal.: Indapur, Dist.: Pune - 413 114.					
	Work Zone I	Noise Sa	mple Details				
Туре	Work Zone Noise						
Sampling done by	GESEC	GESEC					
Standard method	As Per IS: 9989:2020	As Per IS: 9989:2020					
		.	Analysis	Start Date	Analysis End Date		
Date of Sampling	Sample Receipt Da	ate	Analysis Start Date 14/07/2022		18/07/2022		
13/07/2022	14/07/2022		14/07	12022	20/0//		
	Digital Sound Level	Motor	Date Of	Calibration	10/10/2021		
Name Of Instrument		Without III and the plant	THE RESERVE TO SERVE	of Calibration	09/10/2022		
Calibration Certificate No.	ME.2021/10/21/	7002	Due Dute				
			Average Noise	The Factories Act			
Test Location	Unit		Day (01.40 PM)	Night (11.30 PM)	1948, standards		
Distillation Section	dB(A)		82.6	73.0			
Store Room	dB(A)		61.9	54.6			
Fermentation Section	dB(A)		75.8	64.1	≤ 90		
Alcohol Storage	dB(A)		69.0	63.0			
Cooling Tower	dB(A)		81.0	74.9			

### Remark-

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

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