

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

> **DATE: APRIL 19, 2022** AMBIENT AIR QUALITY MONITORING RESULTS

Report No .:

GESEC/PRO/2022-23/04/1463

Industry:

Nira Bhima Sahakari Sakhar Karkhana Limited

(Distillery Unit)

Site:

Shahajinagar, PO: Redni, Tal.: Indapur,

Dist.: Pune - 413 114.

Plant Condition:

In Operation. 12.04.2022

Date of Sampling:

RESULTS

SR. NO.	TEST DESCRIPTION	READINGS	NAAQS
01	Test Location	Village 01 (Redni)	ii ii
02	Time of Sampling	08:30 A.M.	
03	Ambient Temperature	26 °C	
04	Dry Bulb Temperature	26°C	
05	Wet Bulb Temperature	18°C	
06	Relative Humidity	45.4%	
07	Sampling Duration	60 Min	
08	Particulate Matter (PM ₁₀)	54.63 µg/cum	100 μg/cum
09	Particulate Matter (PM _{2.5})	15.78 µg/cum	60 μg/cum
10	Sulphur Dioxide (SO ₂)	13.09 µg/cum	80 µg/cum
11	Oxides of Nitrogen (NOx)	15.45 µg/cum	80 µg/cum

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.

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Consultant PVL

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MoEF approved Lab by Govt. of India. From date. 16/02/2022 to 04/12/2022.



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DATE: APRIL 19, 2022

AMBIENT AIR QUALITY MONITORING RESULTS

Report No.:

GESEC/PRO/2022-23/04/1464

Industry:

Nira Bhima Sahakari Sakhar Karkhana Limited

(Distillery Unit)

Site:

Shahajinagar, PO: Redni, Tal.: Indapur,

Dist.: Pune - 413 114.

Plant Condition:

In Operation.

Date of Sampling:

12.04.2022

RESULTS

SR. NO.	TEST DESCRIPTION	READINGS	NAAQS
01	Test Location	Village 02 (Bodni)	
02	Time of Sampling	08:40 A.M.	
03	Ambient Temperature	26 °C	
04	Dry Bulb Temperature	26°C	
05	Wet Bulb Temperature	18°C	
06	Relative Humidity	45.4%	
07	Sampling Duration	60 Min	
08	Particulate Matter (PM ₁₀)	56.86 µg/cum	100 μg/cum
09	Particulate Matter (PM _{2.5})	16.02 µg/cum	60 µg/cum
10	Sulphur Dioxide (SO ₂)	15.35 µg/cum	80 μg/cum
11	Oxides of Nitrogen (NOx)	17.00 µg/cum	80 µg/cum

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.

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> **DATE: APRIL 19, 2022** AMBIENT AIR QUALITY MONITORING RESULTS

Report No .:

GESEC/PRO/2022-23/04/1465

Industry:

Nira Bhima Sahakari Sakhar Karkhana Limited

(Distillery Unit)

Site:

Shahajinagar, PO: Redni, Tal.: Indapur,

Dist.: Pune - 413 114.

Plant Condition: Date of Sampling: In Operation. 12.04.2022

RESULTS

NAAQS	READINGS	TEST DESCRIPTION	SR. NO.
	Near Main Gate	Test Location	01
	10:45 A.M.	Time of Sampling	02
	31 °C	Ambient Temperature	03
	31°C	Dry Bulb Temperature	04
	17°C	Wet Bulb Temperature	05
	22.2%	Relative Humidity	06
	60 Min	Sampling Duration	07
100 µg/cum	62.36 µg/cum	Particulate Matter (PM ₁₀)	08
60 µg/cum	22.41 µg/cum	Particulate Matter (PM _{2.5})	09
80 µg/cum	23.05 µg/cum	Sulphur Dioxide (SO ₂)	
80 μg/cum	28.63 µg/cum	Oxides of Nitrogen (NOx)	10 11

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.

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DATE: APRIL 19, 2022
AMBIENT AIR QUALITY MONITORING RESULTS

Report No.:

GESEC/PRO/2022-23/04/1466

Industry:

Nira Bhima Sahakari Sakhar Karkhana Limited

(Distillery Unit)

Site:

Shahajinagar, PO: Redni, Tal.: Indapur,

Dist.: Pune - 413 114.

Plant Condition: Date of Sampling: In Operation.

12.04.2022

RESULTS

SR. NO.	TEST DESCRIPTION	READINGS	NAAQS
01	Test Location	Back Side of Distillery	
02	Time of Sampling	10:55 A.M.	
03	Ambient Temperature	31 °C	
04	Dry Bulb Temperature	31°C	
05	Wet Bulb Temperature	17°C	
06	Relative Humidity	22.2%	
07	Sampling Duration	60 Min	
08	Particulate Matter(PM ₁₀)	61.36 µg/cum	100 µg/cum
09	Particulate Matter (PM _{2.5})	20.78 μg/cum	60 µg/cum
10	Sulphur Dioxide	21.69 µg/cum	80 µg/cum
11	Oxides of Nitrogen	25.93 µg/cum	80 µg/cum

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.

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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

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DATE: APRIL 19, 2022

AMBIENT AIR QUALITY MONITORING RESULTS

Report No .: Industry:

GESEC/PRO/2022-23/04/1467

Nira Bhima Sahakari Sakhar Karkhana

(Distillery Unit)

Site:

Shahajinagar, PO: Redni, Tal.: Indapur,

Dist.: Pune - 413 114.

Plant Condition:

In Operation.

12.04.2022 Date of Sampling:

RESULTS

SR. NO.	TEST DESCRIPTION	READINGS	NAAQS
	Test Location	Near Office	
01	Time of Sampling	11:05 A.M.	
02	Ambient Temperature	31 °C	
03	Dry Bulb Temperature	31°C	
04	Dry Bulb Temperature	17°C	
05	Wet Bulb Temperature	22.2%	
06	Relative Humidity	60 Min	
07	Sampling Duration	60.39 µg/cum	100 µg/cum
80	Particulate Matter(PM ₁₀)	19.52 µg/cum	60 µg/cum
09	Particulate Matter (PM _{2.5})		80 µg/cum
10	Sulphur Dioxide	20.78 μg/cum	80 µg/cum
11	Oxides of Nitrogen	24.57 µg/cum	ου μαγοαπί

NAAQS - National Ambient Air Quality Standards, Central Pollution Control Board Notification, No. B - 29016 / 20 / 90 / Note: PCI - I, New Delhi, the 18th November, 2009.

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DATE: APRIL 19, 2022 WORKZONE AIR QUALITY MONITORING RESULTS

Report No.:

GESEC/PRO/2022-23/04/1468

Industry:

Nira Bhima Sahakari Sakhar Karkhana Limited

(Distillery Unit)

Site:

Shahajinagar, PO: Redni, Tal.: Indapur,

Dist.: Pune - 413 114.

Plant Condition:

In Operation.

Date of Sampling:

12.04.2022

RESULTS

SR. NO.	TEST DESCRIPTION	READINGS	The Factories Act 1948, standards
01	Test Location	Bagasse Yard	
02	Time of Sampling	11:15 A.M.	
03	Ambient Temperature	32 °C	
04	Dry Bulb Temperature	32°C	
05	Wet Bulb Temperature	18°C	
06	Relative Humidity	23.6%	
07	Sampling Duration	60 Min	
08	Suspended Particulate Matter (SPM)	461.81 µg/cum	10000 µg/cum
09	Sulphur Dioxide	18.50 µg/cum	5000 μg/cum
10	Oxides of Nitrogen	20.74 μg/cum	6000 µg/cum

Note:

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

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DATE: APRIL 19, 2022 WORKZONE AIR QUALITY MONITORING RESULTS

GESEC/PRO/2022-23/04/1469 Report No .:

Nira Bhima Sahakari Sakhar Karkhana Limited Industry:

(Distillery Unit)

Shahajinagar, PO: Redni, Tal.: Indapur, Site:

Dist.: Pune - 413 114.

In Operation. Plant Condition: 12.04.2022 Date of Sampling:

RESULTS

SR.	TEST DESCRIPTION	READINGS	The Factories Act 1948, standards
		Cane Yard	
01	Test Location	11:25 A.M.	
02	Time of Sampling	32 °C	
03	Ambient Temperature	32°C	
04	Dry Bulb Temperature	18°C	
05	Wet Bulb Temperature		
06	Relative Humidity	23.6%	
07	Sampling Duration	60 Min	10000 µg/cum
08	Suspended Particulate Matter (SPM)	410.79 µg/cum	5000 µg/cum
09	Sulphur Dioxide	16.41 µg/cum	6000 µg/cum
10	Oxides of Nitrogen	18.00 µg/cum	6000 µg/cum

Note:

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

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DATE: APRIL 19, 2022

WORKZONE AIR QUALITY MONITORING RESULTS

GESEC/PRO/2022-23/04/1470 Report No .:

Nira Bhima Sahakari Sakhar Karkhana Limited Industry:

(Distillery Unit)

Shahajinagar, PO: Redni, Tal.: Indapur, Site:

Dist.: Pune - 413 114.

In Operation. Plant Condition:

12.04.2022 Date of Sampling:

RESULTS

SR. NO.	TEST DESCRIPTION	READINGS	The Factories Act 1948, standards
127001 =2 2	Test Location	Ash Storage	
01		11:35 A.M.	
02	Time of Sampling	33 °C	
03	Ambient Temperature	33°C	
04	Dry Bulb Temperature	18°C	
05	Wet Bulb Temperature		
06	Relative Humidity	21.0%	
07	Sampling Duration	60 Min	10000 µg/cum
08	Suspended Particulate Matter (SPM)	496.55 µg/cum	5000 μg/cum
09	Sulphur Dioxide	15.24 μg/cum	
10	Oxides of Nitrogen	17.09 μg/cum	6000 µg/cum

Note:

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

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DATE: APRIL 19, 2022 NOISE LEVEL MONITORING RESULTS

Report No .:

GESEC/PRO/2022-23/04/1471-1472

Industry:

Nira Bhima Sahakari Sakhar Karkhana Limited

(Distillery Unit)

Site:

Shahajinagar, PO: Redni, Tal.: Indapur,

Dist.: Pune - 413 114.

Plant Condition: Sampling Date:

In Operation. 12.04.2022

RESULTS

		READIN	READINGS dB(A)	
SR.NO.	LOCATION	Day (12:20 P.M.)	Night (11:30 P.M.)	
		AMBIENT		
	NA -in Coto	65.3	58.9	
01	Near Main Gate	57.9	55.8	
02	Near Molasses Tank	66.1	57.4	
03	Near Parking	63.0	58.9	
04	Near office		54.4	
05	Near Lagoon Plant	62.5	70.0	
-	LIMITS	75.0	70.0	
	\	WORK ZONE	70.0	
04	Distillation Section	82.0	76.9	
01		65.2	54.1	
02	Store Room	78.5	69.0	
03	Fermentation Section	64.9	62.4	
04	Alcohol Storage		76.5	
05	Cooling Tower	83.0	0.0	
	Limits		0.0	

- Note: Maharashtra Pollution Control Board (MPCB) has prescribed 75 dB (A) as an upper limit of Noise Level during the Day Time & 70 dB (A) during the Night Time.
- The Factories' Act, 1948 has prescribed Work Zone Noise Level threshold limit for 8 hours' exposure as 90 dB (A).

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