

DATE: MARCH 08, 2022 AMBIENT AIR QUALITY MONITORING RESULTS

Report No.:

GESEC/PRO/2021-22/03/2058

Industry:

Nira Bhima Sahakari Sakhar Karkhana Limited

(Distillery Unit)

Site:

Shahajinagar, PO: Redni, Tal.: Indapur,

Dist.: Pune - 413 114.

Plant Condition :

In Operation. 01.03.2022

Date of Sampling : 01.03.20

RESULTS

SR. NO.	TEST DESCRIPTION	READINGS	NAAQS
01	Test Location	Village 01 (Redni)	
02	Time of Sampling	08:10 A.M.	
03	Ambient Temperature	25 °C	
04	Dry Bulb Temperature	25°C	
05	Wet Bulb Temperature	17°C	
06	Relative Humidity	44.2%	
07	Sampling Duration	60 Min	
08	Particulate Matter (PM ₁₀)	53.26 µg/cum	100 µg/cum
09	Particulate Matter (PM _{2.5})	13.95 µg/cum	60 μg/cum
10	Sulphur Dioxide (SO ₂)	14.58 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.

ANALYZED BY
AUTHORIZED SIGNATORY

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



DATE: MARCH 08, 2022 AMBIENT AIR QUALITY MONITORING RESULTS

Report No.:

GESEC/PRO/2021-22/03/2059

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. 01.03.2022

RESULTS

SR. NO.	TEST DESCRIPTION	READINGS	NAAQS
01	Test Location	Village 02 (Bodni)	
02	Time of Sampling	09:15 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)	55.33 µg/cum	100 μg/cum
09	Particulate Matter (PM _{2.5})	16.47 µg/cum	60 μg/cum
10	Sulphur Dioxide (SO ₂)	15.00 µg/cum	80 μg/cum
11	Oxides of Nitrogen (NOx)	18.01 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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Survey No-1405/06, Mayuri Residency, Shop No-16, 2nd Floor, Sanaswadi, Tal-Shirur, Pune-412208. Mob.: 8421365421 / 7028089005 | E-mail:gesec12@gmail.com | www.greenenvirosafe.co.in

Recognised by Ministry of Environment, Forest & Climate Change (MoEF) Govt. of India and ISO 9001:2015, ISO 45001 : 2018 Certified Company

DATE: MARCH 08, 2022 AMBIENT AIR QUALITY MONITORING RESULTS

Report No .:

GESEC/PRO/2021-22/03/2060

Industry:

Nira Bhima Sahakari Sakhar Karkhana Limited

(Distillery Unit)

Site:

Shahajinagar, PO: Redni, Tal.: Indapur,

Dist.: Pune - 413 114.

Plant Condition:

In Operation. 01.03.2022

Date of Sampling:

RESULTS

	TEST DESCRIPTION	NAAQS
Near Main Gate	Test Location	
10:30 A.M.	Time of Sampling	
29 °C	Ambient Temperature	
	Dry Bulb Temperature	
	Wet Bulb Temperature	
33.1%	Relative Humidity	
60 Min	Sampling Duration	
V ₁₀) 61.26 μg/cum	Particulate Matter (PM ₁₀)	100 µg/cum
	Particulate Matter (PM _{2.5})	60 μg/cum
	Sulphur Dioxide (SO ₂)	80 µg/cum
	Oxides of Nitrogen (NOx)	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.

ANALYZED BY-

AUTHORIZED SIGNATORY

Terms and conditions

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

Engineers & Consultant Pvt Ltd. CIN No.: U74900PN2013PTC149666

Recognised by Ministry of Environment, Forest & Climate Change (MoEF) Govt. of India and ISO 9001:2015, ISO 45001: 2018 Certified Company

DATE: MARCH 08, 2022 AMBIENT AIR QUALITY MONITORING RESULTS

Report No .:

GESEC/PRO/2021-22/03/2061

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. 01.03.2022

RESULTS

SR. NO.	TEST DESCRIPTION	READINGS	NAAQS
01	Test Location	Back Side of Distillery	
02	Time of Sampling	10:40 A.M.	
03	Ambient Temperature	29 °C	
04	Dry Bulb Temperature	29°C	
05	Wet Bulb Temperature	18°C	
06	Relative Humidity	33.1%	
07	Sampling Duration	60 Min	Y STATE
08	Particulate Matter(PM ₁₀)	60.33 µg/cum	100 µg/cum
09	Particulate Matter (PM _{2.5})	19.52 µg/cum	60 µg/cum
10	Sulphur Dioxide	21.43 µg/cum	80 µg/cum
11	Oxides of Nitrogen	25.96 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 Pvt Ltd. CIN No.: U74900PN2013PTC149666

Recognised by Ministry of Environment, Forest & Climate Change (MoEF) Govt. of India and ISO 9001:2015, ISO 45001: 2018 Certified Company

DATE: MARCH 08, 2022

AMBIENT AIR QUALITY MONITORING RESULTS

Report No.:

GESEC/PRO/2021-22/03/2062

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: 01.03.2022

RESULTS

SR. NO.	TEST DESCRIPTION	READINGS	NAAQS
01	Test Location	Near Office	
02	Time of Sampling	10:50 A.M.	
03	Ambient Temperature	29 °C	
04	Dry Bulb Temperature	29°C	
05	Wet Bulb Temperature	18°C	
06	Relative Humidity	33.1%	
07	Sampling Duration	60 Min	
08	Particulate Matter(PM ₁₀)	59.63 µg/cum	100 μg/cum
09	Particulate Matter (PM _{2.5})	17.42 µg/cum	60 μg/cum
10	Sulphur Dioxide	16.07 µg/cum	80 µg/cum
11	Oxides of Nitrogen	18.74 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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AUTHORIZED SIGNATORY

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DATE: MARCH 08, 2022 WORKZONE AIR QUALITY MONITORING RESULTS

GESEC/PRO/2021-22/03/2063 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: 01.03.2022 Date of Sampling:

RESULTS

SR. NO.	TEST DESCRIPTION	READINGS	The Factories Act 1948, standards
01	Test Location	Bagasse Yard	
02	Time of Sampling	11:00 A.M.	
03	Ambient Temperature	31 °C	
04	Dry Bulb Temperature	31°C	
05	Wet Bulb Temperature	17°C	<u> </u>
06	Relative Humidity	22.2%	
07	Sampling Duration	60 Min	
08	Suspended Particulate Matter (SPM)	314.75 µg/cum	10000 µg/cum
09	Sulphur Dioxide	16.02 µg/cum	5000 μg/cum
10	Oxides of Nitrogen	18.14 µg/cum	6000 µg/cum

Note:

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

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DATE: MARCH 08, 2022 WORKZONE AIR QUALITY MONITORING RESULTS

GESEC/PRO/2021-22/03/2064 Report No .:

Karkhana Limited Nira Bhima Sahakari Sakhar Industry:

(Distillery Unit)

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

Dist.: Pune - 413 114.

In Operation. Plant Condition: 01.03.2022 Date of Sampling:

RESULTS

SR. NO.	TEST DESCRIPTION	READINGS	The Factories Act 1948, standards
01	Test Location	Cane Yard	
02	Time of Sampling	11:10 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	Suspended Particulate Matter (SPM)	402.77 µg/cum	10000 µg/cum
09	Sulphur Dioxide	18.65 µg/cum	5000 μg/cum
10	Oxides of Nitrogen	21.41 µg/cum	6000 µg/cum

Note:

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

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DATE: MARCH 08, 2022 WORKZONE AIR QUALITY MONITORING RESULTS

GESEC/PRO/2021-22/03/2065 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: 01.03.2022 Date of Sampling:

RESULTS

SR. NO.	TEST DESCRIPTION	READINGS	The Factories Act 1948, standards
01	Test Location	Ash Storage	
02	Time of Sampling	11:20 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	Suspended Particulate Matter (SPM)	325.11 µg/cum	10000 μg/cum
09	Sulphur Dioxide	17.02 µg/cum	5000 μg/cum
10	Oxides of Nitrogen	19.63 µg/cum	6000 µg/cum

Note:

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

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DATE: MARCH 08, 2022

NOISE LEVEL MONITORING RESULTS

Report No.:

GESEC/PRO/2021-22/03/2066-2067

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.

01.03.2022

RESULTS

	LOCATION	READINGS dB(A)	
SR.NO.		Day (11:45 A.M.)	Night (11:00 P.M.)
		AMBIENT	
01	Near Main Gate	68.2	61.2
02	Near Molasses Tank	59.8	56.4
03	Near Parking	64.1	59.8
04	Near office	61.5	56.7
05	Near Lagoon Plant	61.9	52.0
	LIMITS	75.0	70.0
	V	WORK ZONE	
01	Distillation Section	81.9	78.0
02	Store Room	66.6	56.8
03	Fermentation Section	77.5	67.0
04	Alcohol Storage	63.8	61.4
05	Cooling Tower	81.9	78.7
	Limits	90.0	

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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