

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.
Date of Sampling :	01.03.2022

**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 <sub>10</sub> )	53.26 µg/cum	100 µg/cum
09	Particulate Matter (PM <sub>2.5</sub> )	13.95 µg/cum	60 µg/cum
10	Sulphur Dioxide (SO <sub>2</sub> )	14.58 µg/cum	80 µg/cum
11	Oxides of Nitrogen (NO <sub>x</sub> )	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 18<sup>th</sup> November 2009.

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**DATE: MARCH 08, 2022**

**AMBIENT AIR QUALITY MONITORING RESULTS**



Report No.:	GESEC/PRO/2021-22/03/2059
Industry :	Nira Bhima Sahakari Sakhar Karkhana Limited <b>(Distillery Unit)</b>
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	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 <sub>10</sub> )	55.33 µg/cum	100 µg/cum
09	Particulate Matter (PM <sub>2.5</sub> )	16.47 µg/cum	60 µg/cum
10	Sulphur Dioxide (SO <sub>2</sub> )	15.00 µg/cum	80 µg/cum
11	Oxides of Nitrogen (NO <sub>x</sub> )	18.01 µg/cum	80 µg/cum

**Note:**

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**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.
Date of Sampling :	01.03.2022

**RESULTS**

SR. NO.	TEST DESCRIPTION	READINGS	NAAQS
01	Test Location	Near Main Gate	
02	Time of Sampling	10:30 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 <sub>10</sub> )	61.26 µg/cum	100 µg/cum
09	Particulate Matter (PM <sub>2.5</sub> )	20.59 µg/cum	60 µg/cum
10	Sulphur Dioxide (SO <sub>2</sub> )	22.47 µg/cum	80 µg/cum
11	Oxides of Nitrogen (NO <sub>x</sub> )	27.04 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 18<sup>th</sup> November 2009.

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DATE: MARCH 08, 2022

**AMBIENT AIR QUALITY MONITORING RESULTS**




Report No.:	GESEC/PRO/2021-22/03/2061
Industry :	Nira Bhima Sahakari Sakhar Karkhana Limited <b>(Distillery Unit)</b>
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	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	
08	Particulate Matter(PM <sub>10</sub> )	60.33 µg/cum	100 µg/cum
09	Particulate Matter (PM <sub>2.5</sub> )	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 18<sup>th</sup> November, 2009.

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**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 <sub>10</sub> )	59.63 µg/cum	100 µg/cum
09	Particulate Matter (PM <sub>2.5</sub> )	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 18<sup>th</sup> November, 2009.

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**WORKZONE AIR QUALITY MONITORING RESULTS**




Report No.:	GESEC/PRO/2021-22/03/2063
Industry :	Nira Bhima Sahakari Sakhar Karkhana Limited <b>(Distillery Unit)</b>
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	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	
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




Report No.:	GESEC/PRO/2021-22/03/2064
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	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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**WORKZONE AIR QUALITY MONITORING RESULTS**




Report No.:	GESEC/PRO/2021-22/03/2065
Industry :	Nira Bhima Sahakari Sakhar Karkhana Limited <b>(Distillery Unit)</b>
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	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 <b>(Distillery Unit)</b>
Site :	Shahajinagar, PO: Redni, Tal.: Indapur, Dist.: Pune - 413 114.
Plant Condition :	In Operation.
Sampling Date :	01.03.2022

### RESULTS

SR.NO.	LOCATION	READINGS dB(A)	
		Day (11:45 A.M.)	Night (11:00 P.M.)
<b>AMBIENT</b>			
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
	<b>LIMITS</b>	<b>75.0</b>	<b>70.0</b>
<b>WORK ZONE</b>			
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
	<b>Limits</b>	<b>90.0</b>	

#### 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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