

DATE: FEBRUARY 15, 2022

AMBIENT AIR QUALITY MONITORING RESULTS




Report No.:	GESEC/PRO/AAQM/2021-22/02/1317
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 :	08.02.2022

RESULTS

SR. NO.	TEST DESCRIPTION	READINGS	NAAQS
01	Test Location	Village 01 (Redni)	
02	Time of Sampling	08:00 A.M.	
03	Ambient Temperature	24 °C	
04	Dry Bulb Temperature	24°C	
05	Wet Bulb Temperature	18°C	
06	Relative Humidity	55.7%	
07	Sampling Duration	60 Min	
08	Particulate Matter (PM ₁₀)	54.13 µg/cum	100 µg/cum
09	Particulate Matter (PM _{2.5})	15.41 µg/cum	60 µg/cum
10	Sulphur Dioxide (SO ₂)	13.20 µg/cum	80 µg/cum
11	Oxides of Nitrogen (NO _x)	16.92 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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AMBIENT AIR QUALITY MONITORING RESULTS




Report No.:	GESEC/PRO/AAQM/2021-22/02/1318
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 :	08.02.2022

RESULTS

SR. NO.	TEST DESCRIPTION	READINGS	NAAQS
01	Test Location	Village 02 (Bodni)	
02	Time of Sampling	09:00 A.M.	
03	Ambient Temperature	25 °C	
04	Dry Bulb Temperature	25°C	
05	Wet Bulb Temperature	18°C	
06	Relative Humidity	50.3%	
07	Sampling Duration	60 Min	
08	Particulate Matter (PM ₁₀)	56.86 µg/cum	100 µg/cum
09	Particulate Matter (PM _{2.5})	17.02 µg/cum	60 µg/cum
10	Sulphur Dioxide (SO ₂)	15.63 µg/cum	80 µg/cum
11	Oxides of Nitrogen (NO _x)	18.45 µg/cum	80 µg/cum

Note:

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AMBIENT AIR QUALITY MONITORING RESULTS




Report No.:	GESEC/PRO/AAQM/2021-22/02/1319
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 :	08.02.2022

RESULTS

SR. NO.	TEST DESCRIPTION	READINGS	NAAQS
01	Test Location	Near Main Gate	
02	Time of Sampling	10:00 A.M.	
03	Ambient Temperature	27 °C	
04	Dry Bulb Temperature	27°C	
05	Wet Bulb Temperature	19°C	
06	Relative Humidity	46.6%	
07	Sampling Duration	60 Min	
08	Particulate Matter (PM ₁₀)	63.13 µg/cum	100 µg/cum
09	Particulate Matter (PM _{2.5})	26.45 µg/cum	60 µg/cum
10	Sulphur Dioxide (SO ₂)	24.04 µg/cum	80 µg/cum
11	Oxides of Nitrogen (NO _x)	28.59 µg/cum	80 µg/cum

Note:

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AMBIENT AIR QUALITY MONITORING RESULTS




Report No.:	GESEC/PRO/AAQM/2021-22/02/1320
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:	08.02.2022

RESULTS

SR. NO.	TEST DESCRIPTION	READINGS	NAAQS
01	Test Location	Back Side of Distillery	
02	Time of Sampling	10:10 A.M.	
03	Ambient Temperature	27 °C	
04	Dry Bulb Temperature	27°C	
05	Wet Bulb Temperature	19°C	
06	Relative Humidity	46.6%	
07	Sampling Duration	60 Min	
08	Particulate Matter(PM ₁₀)	62.33 µg/cum	100 µg/cum
09	Particulate Matter (PM _{2.5})	24.00 µg/cum	60 µg/cum
10	Sulphur Dioxide	23.69 µg/cum	80 µg/cum
11	Oxides of Nitrogen	26.50 µg/cum	80 µg/cum

Note:

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AMBIENT AIR QUALITY MONITORING RESULTS




Report No.:	GESEC/PRO/AAQM/2021-22/02/1321
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:	08.02.2022

RESULTS

SR. NO.	TEST DESCRIPTION	READINGS	NAAQS
01	Test Location	Near Office	
02	Time of Sampling	10:20 A.M.	
03	Ambient Temperature	27 °C	
04	Dry Bulb Temperature	27°C	
05	Wet Bulb Temperature	19°C	
06	Relative Humidity	46.6%	
07	Sampling Duration	60 Min	
08	Particulate Matter(PM ₁₀)	56.36 µg/cum	100 µg/cum
09	Particulate Matter (PM _{2.5})	16.85 µg/cum	60 µg/cum
10	Sulphur Dioxide	15.96 µg/cum	80 µg/cum
11	Oxides of Nitrogen	18.50 µg/cum	80 µg/cum

Note:

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DATE: FEBRUARY 15, 2022

WORKZONE AIR QUALITY MONITORING RESULTS


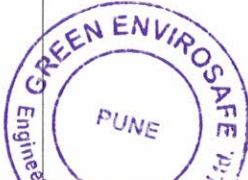

Report No.:	GESEC/PRO/AAQM/2021-22/02/1322
Industry :	Nira Bhima Sahakari Sakhar Karkhana Limited (Distillery Unit)
Site:	Shahajinagar, PO: Redni, Tal.: Indapur, Dist.: Pune - 413 114.
Plant Condition:	In Operation.
Date of Sampling:	08.02.2022

RESULTS

SR. NO.	TEST DESCRIPTION	READINGS	The Factories Act 1948, standards
01	Test Location	Bagasse Yard	
02	Time of Sampling	10:30 A.M.	
03	Ambient Temperature	28 °C	
04	Dry Bulb Temperature	28°C	
05	Wet Bulb Temperature	18°C	
06	Relative Humidity	36.8%	
07	Sampling Duration	60 Min	
08	Suspended Particulate Matter (SPM)	369.48 µg/cum	10000 µg/cum
09	Sulphur Dioxide	15.02 µg/cum	5000 µg/cum
10	Oxides of Nitrogen	19.56 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


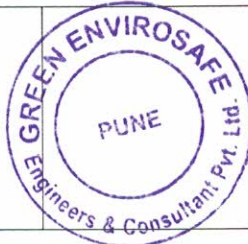

Report No.:	GESEC/PRO/AAQM/2021-22/02/1323
Industry :	Nira Bhima Sahakari Sakhar Karkhana Limited (Distillery Unit)
Site:	Shahajinagar, PO: Redni, Tal.: Indapur, Dist.: Pune - 413 114.
Plant Condition:	In Operation.
Date of Sampling:	08.02.2022

RESULTS

SR. NO.	TEST DESCRIPTION	READINGS	The Factories Act 1948, standards
01	Test Location	Cane Yard	
02	Time of Sampling	10:40 A.M.	
03	Ambient Temperature	28 °C	
04	Dry Bulb Temperature	28°C	
05	Wet Bulb Temperature	18°C	
06	Relative Humidity	36.8%	
07	Sampling Duration	60 Min	
08	Suspended Particulate Matter (SPM)	256.95 µg/cum	10000 µg/cum
09	Sulphur Dioxide	18.02 µg/cum	5000 µg/cum
10	Oxides of Nitrogen	21.43 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/AAQM/2021-22/02/1324
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:	08.02.2022

RESULTS

SR. NO.	TEST DESCRIPTION	READINGS	The Factories Act 1948, standards
01	Test Location	Ash Storage	
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	Suspended Particulate Matter (SPM)	286.10 µg/cum	10000 µg/cum
09	Sulphur Dioxide	15.42 µg/cum	5000 µg/cum
10	Oxides of Nitrogen	17.94 µg/cum	6000 µg/cum

Note:

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

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DATE: FEBRUARY 15, 2022

NOISE LEVEL MONITORING RESULTS




Report No.:	GESEC/PRO/AAQM/2021-22/02/1325-1326
Industry :	Nira Bhima Sahakari Sakhar Karkhana Limited (Distillery Unit)
Site :	Shahajinagar, PO: Redni, Tal.: Indapur, Dist.: Pune - 413 114.
Plant Condition :	In Operation.
Sampling Date :	08.02.2022

RESULTS

SR.NO.	LOCATION	READINGS dB(A)	
		Day (11:15 A.M.)	Night (10:30 P.M.)
AMBIENT			
01	Near Main Gate	66.2	60.3
02	Near Molasses Tank	60.3	57.1
03	Near Parking	66.5	61.0
04	Near office	61.8	57.4
05	Near Lagoon Plant	62.9	58.7
	LIMITS	75.0	70.0
WORK ZONE			
01	Distillation Section	82.4	79.6
02	Store Room	67.1	57.9
03	Fermentation Section	76.2	68.3
04	Alcohol Storage	64.3	62.9
05	Cooling Tower	82.6	74.7
	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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