



Sadekar Enviro Engineers Pvt. Ltd.

B-306/307, Plot No. 61, Patel Estate, Reis Magos, Verem, Alto, Old Betim Road, Bardez, Porvorim, Panaji-Goa-403 101.
Goa State, India. ☎ : (0832) 2411322 / 2411323 • E-mail : starlabgoa@rediffmail.com

SAVE WATER
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ANALYSIS REPORT FOR WATER SAMPLE

No. Report	NARL/L1312/F	Report Date	02/01/2017
Name of Client	M/S Sonhira Sahakari Sakhar Karakhana Ltd.		
Address of Client	Wangi.		
Order / Reference	As per dated 21/12/2016		
Sampling point	Bore No. 1		
Sample Details	Water Sample	Date of Collection	26/12/2016
Sample Collected By	Party	Sample Received On	26/12/2016
Analysis Started On	26/12/2016	Analysis Completed On	02/01/2017
Sample Container	Plastic bottles	Sample Quantity	1000 ml

Chemical Parameters

Sr. No.	Parameters	Results	Units	Method
1.	pH	7.70	-	APHA-4500 H ⁺ - B
2.	C. O. D.	<4.00	mg/l	APHA-5220-B
3.	B. O. D. 5 at 20°C	<3.00	mg/l	APHA-5210-B
4.	Total Dissolved Solids	400.00	mg/l	APHA-2540-C
5.	Suspended Solids	<1.00	mg/l	APHA-2540-D
6.	Chloride	38.00	mg/l	APHA 4500 Cl ⁻ -B
7.	Sulphate	98.00	mg/l	APHA 4500 SO ₄ -E
8.	Oil & Grease	Nil	mg/l	APHA-5520-B

Note: Test results related only to the sample tested.

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Komal Gawas
Analyzed by




Vishal Sannakki
Checked by


Vinayak Kudkar
Authorized Signatory

HEAD OFF. & LAB : Plot No. A-95, Road No. 16, Kisan Nagar Road, M.I.D.C. Wagle Industrial Area, Thane - 400 604. Maharashtra State, India.

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ANALYSIS REPORT FOR WATER SAMPLE

No. Report	NARL/L1312/G	Report Date	02/01/2017
Name of Client	M/S Sonhira Sahakari Sakhar Karakhana Ltd.		
Address of Client	Wangi.		
Order / Reference	As per dated 21/12/2016		
Sampling point	Bore No. 2		
Sample Details	Water Sample	Date of Collection	26/12/2016
Sample Collected By	Party	Sample Received On	26/12/2016
Analysis Started On	26/12/2016	Analysis Completed On	02/01/2017
Sample Container	Plastic bottles	Sample Quantity	1000 ml

Chemical Parameters

Sr. No.	Parameters	Results	Units	Method
1.	pH	7.47	-	APHA-4500 H ⁺ - B
2.	C. O. D.	<4.00	mg/l	APHA-5220-B
3.	B. O. D. 5 at 20°C	<3.00	mg/l	APHA-5210-B
4.	Total Dissolved Solids	400.00	mg/l	APHA-2540-C
5.	Suspended Solids	<1.00	mg/l	APHA-2540-D
6.	Chloride	36.00	mg/l	APHA 4500 Cl ⁻ -B
7.	Sulphate	92.00	mg/l	APHA 4500 SO ₄ -E
8.	Oil & Grease	Nil	mg/l	APHA-5520-B

Note: Test results related only to the sample tested.

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Komal Gawas
Analyzed by




Vishal Sannakki
Checked by


Vinayak Kudkar
Authorized Signatory

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ANALYSIS REPORT FOR WATER SAMPLE

No. Report	NARL/L1312/H	Report Date	02/01/2017
Name of Client	Sonhira Sahakari Sakhar Karakhana Ltd.		
Address of Client	Wangi.		
Order / Reference	As per dated 21/12/2016		
Sampling point	STP		
Sample Details	Treated Effluent	Date of Collection	26/12/2016
Sample Collected By	Party	Sample Received On	26/12/2016
Analysis Started On	26/12/2016	Analysis Completed On	02/01/2017
Sample Container	Plastic bottles	Sample Quantity	1000 ml

Chemical Parameters

Sr.No.	Parameters	Results	Units	MPCB Limits	Method
1.	pH	7.33	-	5.5-9.0	APHA-4500 H ⁺ - B
2.	C. O. D.	208.00	mg/l	250	APHA-5220-B
3.	B. O. D. 5 at 20°C	76.00	mg/l	100	APHA-5210-B
4.	Total Dissolved Solids	1040.00	mg/l	2100	APHA-2540-C
5.	Suspended Solids	160.00	mg/l	100	APHA-2540-D
6.	Chloride	125.00	mg/l	600	APHA 4500 Cl ⁻ -B
7.	Sulphate	149.00	mg/l	1000	APHA 4500 SO ₄ -E
8.	Oil & Grease	Nil	mg/l	10	APHA-5520-B

Note: Test results related only to the sample tested.

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Vishal Sannakki
Checked by


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Authorized Signatory

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AMBIENT AIR QUALITY MONITORING REPORT

Report No.	NARL/L1312/A	Report Date	02/01/2017
Name of Client	Sonhira Sahakari Sakhar Karakhana Ltd.		
Address of Client	Wangi.		
Sample Collected By	Nikhil Analytical & Research Laboratory, Sangli.		
Date of Sampling	26/12/2017		
Analysis Started On	26/12/2017	Analysis Completed On	02/01/2017

AMBIENT AIR STATION LOCATION

Location of ambient air station	Main Gate		
Ambient Temperature (°C)*	29.6°C	Humidity (%)*	58 %
Wind Speed (km/hr)*	0.2 Km/hr		
Instruments Used	Fine Particulate Sampler APM – 550 & Gaseous Pollutants Sampler APM – 433		

POLLUTION PARAMETERS

Sr. No.	Parameters	Result	Units	Limits (NAAQS-2009)	Method
01.	PM ₁₀	60	µg/m ³	100.00	IS 5182(Part 23) : 2006
02.	SO ₂	13	µg/m ³	80.00	IS 5182(Part 02) : 2001, Reaff. 2006
03.	NO _x	16	µg/m ³	80.00	IS 5182(Part 06) : 2006

Note : Test results related only to the sample tested.
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Analysed by
Ankita Chari

Checked By
Vishal Sannakki



Authorized Signatory
Vinayak Kudkar



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AMBIENT AIR QUALITY MONITORING REPORT

Report No.	NARL/L1312/B	Report Date	02/01/2017
Name of Client	Sonhira Sahakari Sakhar Karakhana Ltd.		
Address of Client	Wangi.		
Sample Collected By	Nikhil Analytical & Research Laboratory, Sangli.		
Date of Sampling	26/12/2017		
Analysis Started On	26/12/2017	Analysis Completed On	02/01/2017

AMBIENT AIR STATION LOCATION

Location of ambient air station	Ambak Village		
Ambient Temperature (°C)*	30.8°C	Humidity (%)*	55 %
Wind Speed (km/hr)*	0.1 Km/hr		
Instruments Used	Fine Particulate Sampler APM – 550 & Gaseous Pollutants Sampler APM – 433		

POLLUTION PARAMETERS

Sr. No.	Parameters	Result	Units	Limits (NAAQS-2009)	Method
01.	PM ₁₀	72	µg/m ³	100.00	IS 5182(Part 23) : 2006
02.	SO ₂	11	µg/m ³	80.00	IS 5182(Part 02) : 2001, Reaff. 2006
03.	NO _x	10	µg/m ³	80.00	IS 5182(Part 06) : 2006

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FUGITIVE EMISSION MONITORING REPORT

Report No.	NARL/L1312/C	Report Date	02/01/2017
Name of Client	Sonhira Sahakari Sakhar Karakhana Ltd.		
Address of Client	Wangi.		
Sample Collected By	Nikhil Analytical & Research Laboratory, Sangli.		
Date of Sampling	26/12/2017		
Analysis Started On	26/12/2017	Analysis Completed On	02/01/2017

FUGITIVE EMISSION LOCATION

Location of ambient air station	Compost Yard		
Ambient Temperature (°C)*	30.4°C	Humidity (%)*	60 %
Wind Speed (km/hr)*	0.1 Km/hr		
Instruments Used	Fine Particulate Sampler APM – 550 & Gaseous Pollutants Sampler APM – 433		

POLLUTION PARAMETERS

Sr. No.	Parameters	Result	Units	Method
01.	PM ₁₀	55	µg/m ³	IS 5182(Part 23) : 2006
02.	SO ₂	19	µg/m ³	IS 5182(Part 02) : 2001, Reaff. 2006
03.	NO _x	14	µg/m ³	IS 5182(Part 06) : 2006

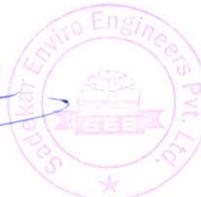
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Analysed by
Ankita Chari

Checked By
Vishal Sannakki

Authorized Signatory
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STACK EMISSION REPORT

Report No.	NARL/L1312/E	Report Date	02/01/2017
Name of Client	Sonhira Sahakari Sakhar Karakhana Ltd.		
Address of Client	Wangi.		
Sample Collected By	Nikhil Analytical & Research Laboratory, Sangli.		
Date of Sampling	26/12/2017		
Analysis Started On	26/12/2017	Analysis Completed On	02/01/2017

STACK DETAILS

Stack	Co- gen Stack
Shape	Round
Diameter	5.5 m
Height From Ground Level	72 m
Material of Construction	R. C. C.
Temperature	128 °C
Velocity of Flue Gases	0.7 m/sec
Volume of Flue Gases	59878.67 m ³ /hr
Type of Fuel	Bagasse
Fuel Consumption	-

POLLUTIONAL PARAMETERS

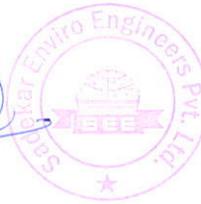
Sr. No.	Parameters	Result	Limits	Units	Method
01.	Particulate Matter	92	150	mg/Nm ³	IS 11255 (Part I) 1985
02.	SO ₂	12.93	20	Kg/Day	IS 11255 (Part II) 1985
03.	NO _x	11	--	mg/Nm ³	IS 11255 (Part VII) 2005

Note : Test results related only to the sample tested.

: Test results relate only to the condition prevailing at the time of sampling

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WORKPLACE NOISE LEVEL MONITORING REPORT

Report No.	NARL/L1312/D2	Report Date	02/01/2017
Name of Client	Sonhira Sahakari Sakhar Karakhana Ltd.		
Address of Client	Wangi.		
Date of Sampling	26/12/2017		
Sample Collected By	Nikhil Analytical & Research Laboratory, Sangli.		

Sr. No.	Report No.	Sampling Location (From 1 meter off)	Noise in dB (A) Leq
			Day Time
01.	NARL/L1312/D2	Near Turbine	72.2

- *dB(A) Leq denotes the time weighted average of the level of sound in decibels on scale A which is relatable to human hearing. A "decibel" is a unit in which noise is measured.
- "A", in dB(A) Leq, denotes the frequency weighting in the measurement of noise and corresponds to frequency response characteristics of the human hear.
- Leq: It is the energy mean of the noise level over a specified period.

* Occupational noise exposure limit as per OSHA is 90 dB (A) for 8 hours.

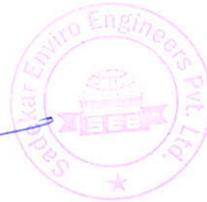
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Monitored by
Anand Chavan

Checked By
Vishal Sannakki



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AMBIENT NOISE LEVEL MONITORING REPORT

Report No.	NARL/L1312/D1	Report Date	02/01/2017
Name of Client	Sonhira Sahakari Sakhar Karakhana Ltd.		
Address of Client	Wangi.		
Date of Sampling	26/12/2017		
Sample Collected By	Nikhil Analytical & Research Laboratory, Sangli.		

Sr. No.	Report No.	Sampling Location (From 1 meter off)	Noise in dB (A) Leq
			Day Time
01.	NARL/L1312/D1	Near Factory Gate	61.9

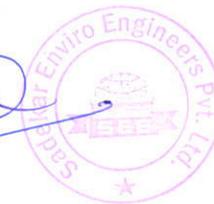
- Limit During Day time < 75. (Day time shall mean from 6.00 am to 10.00 pm.)
- Limit During Night time < 70. (Night time shall mean from 10.00 pm to 6.00 am.)
- *dB(A) Leq denotes the time weighted average of the level of sound in decibels on scale A which is relatable to human hearing. A "decibel" is a unit in which noise is measured.
- "A", in dB(A) Leq, denotes the frequency weighting in the measurement of noise and corresponds to frequency response characteristics of the human hear.
- Leq: It is the energy mean of the noise level over a specified period.

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