

Recognised by Ministry of Environment, Forest & Climate Change (MoEF) Govt. of India and ISO/IEC 17025:2005 (NABL), ISO 9001:2015 and OHSAS 18001:2007 Certified Company

GESEC

TEST CERTIFICATE

Report No: GESEC/PRO/2018-19/01/2504	Date of Report	29/01/2019
Client Name and Address: M/s. Nira Bhima Sahakari Sakhar Karkhana Ltd. Shahajinagar ,Post-Redni, Tal-Indapur, Dist-Pune,Pin-413114.	Date of Sampling	21/01/2019
	Start Date of Analysis	22/01/2019
	End Date of Analysis	28/01/2019
	Sample Details	Ambient Air
	Sample Location	Near Guest House
	Time of Sampling	10:10
Sample Collected By	GESEC	

Ambient Air Analysis Report

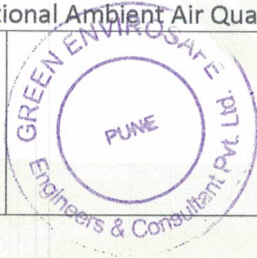
Sr. No.	Parameter	Result	Unit(s)	NAAQ Standards
1.	Ambient Temperature	28	°C	
2.	Dry Bulb Temperature	30	°C	
3.	Wet Bulb Temperature	27	°C	
4.	Relative Humidity	65	% RH	
5.	Sampling Duration	1440	Min	
6.	Sulphur Dioxide(SO ₂)	31.20	µg/M ³	≤ 80
7.	Oxides of Nitrogen(NO ₂)	35.21	µg/M ³	≤ 80
8.	Particulate Matter PM ₁₀	43.51	µg/M ³	≤ 100
9.	Particulate Matter PM _{2.5}	22.1	µg/M ³	≤ 60
10.	Carbon Monoxide (CO)	0.44	mg/M ³	≤ 04(1 Hr)

Remark-

➤ All above results are within National Ambient Air Quality standards.

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GESEC

TEST CERTIFICATE

Report No: GESEC/PRO/2018-19/01/2505	Date of Report	29/01/2019
Client Name and Address: M/s. Nira BhimaSahakariSakharKarkhana Ltd. Shahajinagar ,Post-Redni, Tal-Indapur, Dist-Pune, Pin-413114.	Date of Sampling	21/01/2019
	Start Date of Analysis	22/01/2019
	End Date of Analysis	28/01/2019
	Sample Details	Ambient Air
	Sample Location	Near Main Gate
	Time of Sampling	11:10
Sample Collected By	GESEC	

Ambient Air Analysis Report

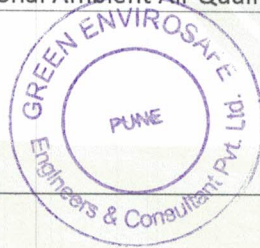
Sr. No.	Parameter	Result	Unit(s)	NAAQ Standards
1.	Ambient Temperature	32	°C	
2.	Dry Bulb Temperature	32	°C	
3.	Wet Bulb Temperature	28	°C	
4.	Relative Humidity	69	% RH	
5.	Sampling Duration	1440	Min	
6.	Sulphur Dioxide(SO ₂)	13.99	µg/M ³	≤ 80
7.	Oxides of Nitrogen(NO ₂)	26.45	µg/M ³	≤ 80
8.	Particulate Matter PM ₁₀	45.77	µg/M ³	≤ 100
9.	Particulate Matter PM _{2.5}	20.31	µg/M ³	≤ 60
10.	Carbon Monoxide (CO)	1.45	mg/M ³	≤ 04(1 Hr)

Remark-

- All above results are within National Ambient Air Quality standards.

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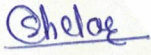
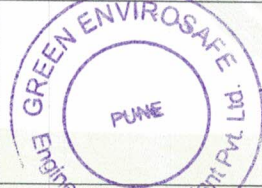

Report No: GESEC/PRO/2018-19/01/2506	Date of Report	29/01/2019
Client Name and Address: M/s. Nira BhimaSahakariSakharKarkhana Ltd. Shahajinagar ,Post-Redni, Tal-Indapur, Dist-Pune, Pin-413114.	Date of Sampling	21/01/2019
	Start Date of Analysis	22/01/2019
	End Date of Analysis	28/01/2019
	Sample Details	Ambient Air
	Sample Location	Near ETP Area
	Time of Sampling	12:10
Sample Collected By	GESEC	

Ambient Air Analysis Report

Sr. No.	Parameter	Result	Unit(s)	NAAQ Standards
1.	Ambient Temperature	32	°C	
2.	Dry Bulb Temperature	32	°C	
3.	Wet Bulb Temperature	25	°C	
4.	Relative Humidity	70	% RH	
5.	Sampling Duration	1440	Min	
6.	Sulphur Dioxide(SO ₂)	9.94	µg/M ³	≤ 80
7.	Oxides of Nitrogen(NO ₂)	11.58	µg/M ³	≤ 80
8.	Particulate Matter PM ₁₀	46.21	µg/M ³	≤ 100
9.	Particulate Matter PM _{2.5}	15.44	µg/M ³	≤ 60
10.	Carbon Monoxide (CO)	1.26	mg/M ³	≤ 04(1 Hr)

Remark-

➤ All above results are within National Ambient Air Quality standards.

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TEST CERTIFICATE

Report No: GESEC/PRO/2018-19/01/2507	Date of Report	29/01/2019
Client Name and Address: M/s. Nira BhimaSahakariSakharKarkhana Ltd. Shahajinagar ,Post-Redni, Tal-Indapur, Dist-Pune, Pin-413114.	Date of Sampling	21/01/2019
	Sample Details	Ambient Noise
Sample Collected By	GESEC	

Ambient Noise Report

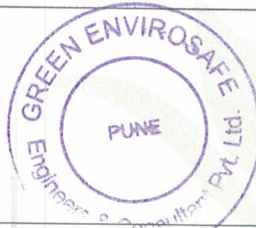
Sr. No.	Location	Result dB(A)		CPCB Standards dB(A)
		Day	Night	
1.	Near ETP Area	51.4	41.7	55/45
2.	Near Office	52.2	42.8	
3.	Near Main Gate	51.7	43.5	
4.	Near Sugar Godown	52.6	41.7	
5.	Near Guest House Area	51.4	42.9	

Remark-

- Maharashtra Pollution control board prescribed 55 dB(A) as an upper limit of noise level during day time and 45 dB(A) as an upper limit of noise level during at night time for residential Area.
- All aboveresults are within the prescribed limit by MPCB.

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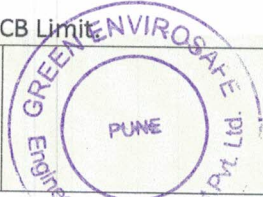
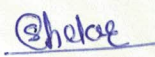
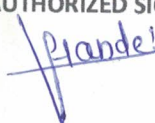
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TEST CERTIFICATE

Report No: GESEC/PRO/2018-19/01/2508		Date of Report		29/01/2019	
Client Name and Address: M/s. Nira BhimaSahakariSakharKarkhana Ltd. Shahajinagar ,Post-Redni, Tal-Indapur, Dist-Pune, Pin-413114.		Date of Sampling		21/01/2019	
		Start Date of Analysis		22/01/2019	
		End Date of Analysis		28/01/2019	
		Sample Location		Boiler (40 TPH)	
		Sample Details		Stack	
		Time of Sampling		1:15	
Sample Collected By		GESEC			
Source Emission Analysis Report					
Sr. No.	Parameter	Result	Unit(s)	Limits As Per MPCB Consent	Standard Method
1.	Capacity of Boiler	40	TPH	--	--
2.	Type of Fuel	Bagasse	--	--	--
3.	Material of Stack	RCC	--		
4.	Stack Height from G.L.	60.0	Mtr.		
5.	Type of Stack	Round	--		
6.	Sampling Duration	30	Min.		
7.	Flue Gas Temperature	140	°C		
8.	Differential Pressure	12.2	mmWG		
9.	Velocity	13.48	M/s		
10.	Dimensions of Stack	3.5	Mtr.		
11.	Gas Volume	336505.08	NM ³ /Hr		
12.	Suspended Particulate Matter (SPM)	83.2	mg/NM ³	≤ 150	IS:11255(Part 1)-1985
Remark(s):					
➤ All above results are well within MPCB Limit					
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TEST CERTIFICATE

Report No: GESEC/PRO/2018-19/01/2509	Date of Report	29/01/2019
Client Name and Address: M/s. Nira BhimaSahakariSakharKarkhana Ltd. Shahajinagar ,Post-Redni, Tal-Indapur, Dist-Pune, Pin-413114.	Date of Sampling	21/01/2019
	Start Date of Analysis	22/01/2019
	End Date of Analysis	28/01/2019
	Sample Location	Boiler (66 TPH)
	Sample Details	Stack
	Time of Sampling	2:10
Sample Collected By	GESEC	

Source Emission Analysis Report

Sr. No.	Parameter	Result	Unit(s)	Limits As Per MPCB Consent	Standard Method
1.	Capacity of Boiler	66	TPH	--	--
2.	Type of Fuel	Bagasse	--	--	--
3.	Material of Stack	RCC	--		
4.	Stack Height from G.L.	75.0	Mtr.		
5.	Type of Stack	Round	--		
6.	Sampling Duration	30	Min.		
7.	Flue Gas Temperature	141	°C		
8.	Differential Pressure	12.9	mmWG		
9.	Velocity	13.88	M/s		
10.	Dimensions of Stack	3.6	Mtr.		
11.	Gas Volume	365637.7	NM ³ /Hr		
12.	Suspended Particulate Matter (SPM)	89.6	mg/NM ³	≤ 150	IS:11255(Part 1)-1985

Remark(s):

➤ All above results are well within MPCB Limit

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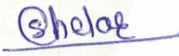


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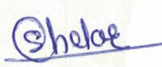
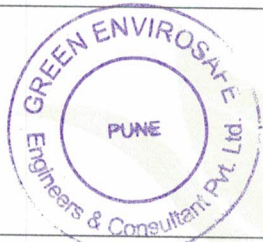

Report No: GESEC/PRO/2018-19/01/2510		Date of Report	29/01/2019
Client Name and Address: M/s. Nira BhimaSahakariSakharKarkhana Ltd. Shahajinagar ,Post-Redni, Tal-Indapur, Dist-Pune, Pin-413114.		Date of Sampling	21/01/2019
		Start Date of Analysis	22/01/2019
		End Date of Analysis	28/01/2019
		Sample Details	Raw Spent Wash Sample
		Nature of sample	Untreated
Sample Collected By		GESEC	
Water Analysis Report			
Sr. No.	Parameter	Result	Unit(s)
1.	pH	3.89	--
2.	EC	24531	µS/m
3.	BOD	76725	mg/lit
4.	COD	170500	mg/lit
5.	Volatile Acids	4427	mg/lit
6.	Alkalinity	--	mg/lit
7.	Acidity	1596	mg/lit
ANALYZED BY- 		AUTHORIZED SIGNATORY 	
			

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TEST CERTIFICATE

Report No: GESEC/PRO/2018-19/01/2511		Date of Report	29/01/2019
Client Name and Address: M/s. Nira BhimaSahakariSakharKarkhana Ltd. Shahajinagar ,Post-Redni, Tal-Indapur, Dist-Pune, Pin-413114.		Date of Sampling	21/01/2019
		Start Date of Analysis	22/01/2019
		End Date of Analysis	28/01/2019
		Sample Details	Bio-Methanated Spent Wash Sample
		Nature of sample	Untreated
Sample Collected By		GESEC	
Water Analysis Report			
Sr. No.	Parameter	Result	Unit(s)
1.	pH	7.51	--
2.	EC	31960	µS/m
3.	BOD	10965	mg/lit
4.	COD	50196	mg/lit
5.	Volatile Acids	1102	mg/lit
6.	Alkalinity	23540	mg/lit
7.	Acidity	1356	mg/lit
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Report No: GESEC/PRO/2018-19/01/2512		Date of Report		29/01/2019	
Client Name and Address: M/s. Nira BhimaSahakariSakharKarkhana Ltd. Shahajinagar ,Post-Redni, Tal-Indapur, Dist-Pune, Pin-413114.		Date of Sampling		21/01/2019	
		Sample Details		Compost Sample	
Sample Collected By		GESEC			
Compost Sample Report					
Sr. No.	Location	Result	Unit	Standard Value	The Factories Act 1948, standards
1.	pH at 25°C	6.4	--	Not Applicable	IS:10158-1982(RA:2009)-7, page no 18
2.	Moisture	30.8	%	Not Applicable	IS:9235-1979(RA:2009),4.1, page no.5
3.	Total Organic Carbon	25.9	%	Not Applicable	Fertilizer Control Order, 1985, page no. 144-A
4.	Total organic Matter	46.1	%	Not Applicable	Fertilizer Control Order, 1985, page no. 144-A
5	Total Nitrogen as N	1.85	%	Not Applicable	IS:10158-1982(RA:2009)-5, page no.8
6.	Total Phosphate as P ₂ O ₅	2.74	%	Not Applicable	IS:10158-1982(RA:2009)-10.1A, page no.19
7.	Total Potassium	3.2	%	Not Applicable	IS:10158-1982(RA:2009)-9, page no.18
8.	C:N Ratio	14.01	--	Not Applicable	Fertilizer Control Order, 1985, page no. 144-B
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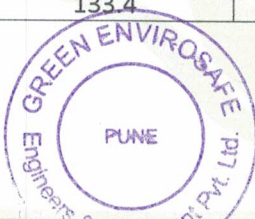
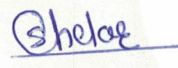

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GESEC

TEST CERTIFICATE

Report No: GESEC/PRO/2018-19/01/2513	Date of Report	29/01/2019
Client Name and Address: M/s. Nira BhimaSahakariSakharKarkhana Ltd. Shahajinagar ,Post-Redni, Tal-Indapur, Dist-Pune, Pin-413114.	Date of Sampling	21/01/2019
	Start Date of Analysis	22/01/2019
	End Date of Analysis	28/01/2019
	Sample Location	ETP
	Sample Details	ETP Inlet
Sample Collected By	GESEC	

Water Analysis Report

Sr. No.	Parameter	Result	Unit(s)	Standard Method
Physical Parameter				
1.	Total Suspended Solids	570.2	mg/lit	APHA 2540-D
2.	Total Dissolved Solids	2396.2	mg/lit	APHA 2540-C
Chemical Parameter				
3.	pH	5.8	--	APHA 4500 -H ⁺
4.	BOD at 27°C for 3 days	1603.2	mg/lit	Modified Wrinkler's Idometric Method
5.	Oil and Grease	22.7	mg/lit	APHA 5520 B
6.	COD	6523.4	mg/lit	APHA 5220 B
7.	Chloride (as Cl)	140.2	mg/lit	APHA 4500 Cl ⁻ B
8.	Sulphate (as SO ₄)	133.4	mg/lit	APHA 4500So ₄ E
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GESEC

TEST CERTIFICATE

Report No: GESEC/PRO/2018-19/01/2514		Date of Report	29/01/2019
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		Start Date of Analysis	22/01/2019
		End Date of Analysis	28/01/2019
		Sample Details	ETP
		Nature of sample	ETP Outlet
Sample Collected By		GESEC	

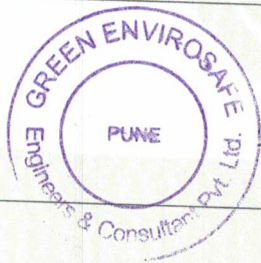
Water Analysis Report

Sr. No.	Parameter	Result	Unit(s)	Limits	Standard Method
Physical Parameter					
1.	Total Suspended Solid	47.2	mg/lit	<100	APHA 2540-D
2.	Total Dissolved Solids	562.3	mg/lit	<2100	APHA 2540-C
Chemical Parameter					
3.	pH	7.1	--	5.5-9.0	APHA 4500 -H ⁺
4.	BOD at 27°C for 3 days	29.0	mg/lit	<100	Modified Wrinkler's Idometric Method
5.	Oil and grease	7.2	mg/lit	<10	APHA 5520 B
6.	COD	106.2	mg/lit	<250	APHA 5220 B
7.	Chloride (as Cl)	20.44	mg/lit	600	APHA 4500 Cl ⁻ B
8.	Sulphate (as SO ₄)	90.2	mg/lit	1000	APHA 4500So ₄ E

Remarks: All above results are within MPCB Limits

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Terms and conditions

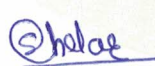
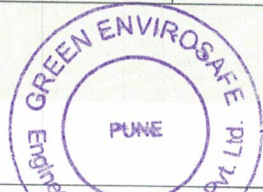
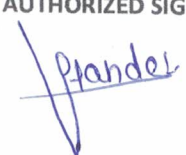
- The report is refer only to the sample tested and not applies to the bulk.
- The results shown in this test report may differ based on various factors including temperature, humidity, pressure, retention time etc.
- The test report cannot be reproduced wholly or in part and cannot be used for promotional or publicity purpose without the written consent of laboratory, GESEC.
- Samples will be retained for a period of seven (7) days after completion of analysis. Longer retention periods can be arranged, on request of the customer.
- We strictly maintain the confidentiality of all test result of sample(s) collected by us/ supplied by customer and not revel to third party unless required by the statutory or legal requirement.
- MoEF approved Lab by Govt. of India. From date. 09/02/2017 to 08/02/2022.



Recognised by Ministry of Environment, Forest & Climate Change (MoEF) Govt. of India and ISO/IEC 17025:2005 (NABL), ISO 9001:2015 and OHSAS 18001:2007 Certified Company

GESEC

TEST CERTIFICATE

Report No: GESEC/PRO/2018-19/01/2515		Date of Report		29/01/2019	
Client Name and Address: M/s. Nira BhimaSahakariSakharKarkhana Ltd. Shahajinagar ,Post-Redni, Tal-Indapur, Dist-Pune, Pin-413114.		Date of Sampling		21/01/2019	
		Sample Details		Press Mud Sample	
Sample Collected By		GESEC			
Press Mud Sample Report					
Sr. No.	Location	Result	Unit	Standard Value	The Factories Act 1948, standards
1.	pH at 25°C	6.1	--	Not Applicable	IS:10158-1982(RA:2009)-7, page no 18
2.	Moisture	73.4	%	Not Applicable	IS:9235-1979(RA:2009),4.1, page no.5
3.	Total Organic Carbon	30.7	%	Not Applicable	Fertilizer Control Order, 1985, page no. 144-A
4.	Total organic Matter	45.6	%	Not Applicable	Fertilizer Control Order, 1985, page no. 144-A
5.	Total Nitrogen as N	1.6	%	Not Applicable	IS:10158-1982(RA:2009)-5, page no.8
6.	Total Phosphate as P ₂ O ₅	1.33	%	Not Applicable	IS:10158-1982(RA:2009)-10.1A, page no.19
7.	Total Potassium	3.1	%	Not Applicable	IS:10158-1982(RA:2009)-9, page no.18
8.	C:N Ratio	19.18	--	Not Applicable	Fertilizer Control Order, 1985, page no. 144-B
ANALYZED BY- 					
		AUTHORIZED SIGNATORY 			

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