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TEST CERTIFICATE

Report No: GESEC/PRO/2021-22/12/1070	Date of Report	28/12/2021
Client Name and Address: M/s. Nira Bhima Sahakari Sakhar Karkhana Ltd. Shahajinagar ,Post-Redni, Tal-Indapur, Dist-Pune, Pin-413114.	Date of Sampling	23/12/2021
	Start Date of Analysis	24/12/2021
	End Date of Analysis	28/12/2021
	Sample Details	Ambient Air
	Sample Location	Near Guest House
	Time of Sampling	10:30
Sample Collected By	GESEC	

Ambient Air Analysis Report

Sr. No.	Parameter	Result	Unit(s)	NAAQ Standards
1.	Ambient Temperature	30	°C	
2.	Dry Bulb Temperature	30	°C	
3.	Wet Bulb Temperature	28	°C	
4.	Relative Humidity	58	% RH	
5.	Sampling Duration	1440	Min	
6.	Sulphur Dioxide(SO ₂)	28.63	µg/M ³	≤ 80
7.	Oxides of Nitrogen(NO ₂)	39.62	µg/M ³	≤ 80
8.	Particulate Matter PM ₁₀	39.12	µg/M ³	≤ 100
9.	Particulate Matter PM _{2.5}	20.14	µg/M ³	≤ 60
10.	Carbon Monoxide (CO)	0.35	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/2021-22/12/1071	Date of Report	28/12/2021
Client Name and Address: M/s. Nira Bhima Sahakari Sakhar Karkhana Ltd. Shahajinagar ,Post-Redni, Tal-Indapur, Dist-Pune, Pin-413114.	Date of Sampling	23/12/2021
	Start Date of Analysis	24/12/2021
	End Date of Analysis	28/12/2021
	Sample Details	Ambient Air
	Sample Location	Near Main Gate
	Time of Sampling	10:50
Sample Collected By	GESEC	

Ambient Air Analysis Report

Sr. No.	Parameter	Result	Unit(s)	NAAQ Standards
1.	Ambient Temperature	30	°C	
2.	Dry Bulb Temperature	30	°C	
3.	Wet Bulb Temperature	28	°C	
4.	Relative Humidity	58	% RH	
5.	Sampling Duration	1440	Min	
6.	Sulphur Dioxide(SO ₂)	25.12	µg/M ³	≤ 80
7.	Oxides of Nitrogen(NO ₂)	23.05	µg/M ³	≤ 80
8.	Particulate Matter PM ₁₀	42.51	µg/M ³	≤ 100
9.	Particulate Matter PM _{2.5}	21.05	µg/M ³	≤ 60
10.	Carbon Monoxide (CO)	1.42	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/2021-22/12/1072	Date of Report	28/12/2021
Client Name and Address: M/s. Nira Bhima Sahakari Sakhar Karkhana Ltd. Shahajinagar ,Post-Redni, Tal-Indapur, Dist-Pune, Pin-413114.	Date of Sampling	23/12/2021
	Start Date of Analysis	24/12/2021
	End Date of Analysis	28/12/2021
	Sample Details	Ambient Air
	Sample Location	Near ETP Area
	Time of Sampling	11:10
Sample Collected By	GESEC	

Ambient Air Analysis Report

Sr. No.	Parameter	Result	Unit(s)	NAAQ Standards
1.	Ambient Temperature	30	°C	
2.	Dry Bulb Temperature	30	°C	
3.	Wet Bulb Temperature	28	°C	
4.	Relative Humidity	58	% RH	
5.	Sampling Duration	1440	Min	
6.	Sulphur Dioxide(SO ₂)	4.6	µg/M ³	≤ 80
7.	Oxides of Nitrogen(NO ₂)	19.5	µg/M ³	≤ 80
8.	Particulate Matter PM ₁₀	43.6	µg/M ³	≤ 100
9.	Particulate Matter PM _{2.5}	20.4	µg/M ³	≤ 60
10.	Carbon Monoxide (CO)	1.51	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/2021-22/12/1073	Date of Report	28/12/2021
Client Name and Address: M/s. Nira Bhima Sahakari Sakhar Karkhana Ltd. Shahajinagar ,Post-Redni, Tal-Indapur, Dist-Pune, Pin-413114.	Date of Sampling	23/12/2021
	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	53.3	42.9	55/45
2.	Near Office	53.9	42.1	
3.	Near Main Gate	50.2	43.8	
4.	Near Sugar Godown	52.8	42.7	
5.	Near Guest House Area	51.0	43.5	

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 above results are within the prescribed limit by MPCB.

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TEST CERTIFICATE

Report No: GESEC/PRO/2021-22/12/1074	Date of Report	28/12/2021
Client Name and Address: M/s. Nira Bhima Sahakari Sakhar Karkhana Ltd. Shahajinagar ,Post-Redni, Tal-Indapur, Dist-Pune, Pin-413114.	Date of Sampling	23/12/2021
	Start Date of Analysis	24/12/2021
	End Date of Analysis	28/12/2021
	Sample Location	Boiler (40 TPH)
	Sample Details	Stack
	Time of Sampling	13:00
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/ Biogas	--	--	--
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	118	°C		
8.	Differential Pressure	6.8	mmWG		
9.	Velocity	9.79	M/s		
10.	Dimensions of Stack	3.5	Mtr.		
11.	Gas Volume	258189.18	NM ³ /Hr		
12.	Suspended Particulate Matter (SPM)	80.5	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/2021-22/12/1075	Date of Report	28/12/2021
Client Name and Address: M/s. Nira Bhima Sahakari Sakhar Karkhana Ltd. Shahajinagar ,Post-Redni, Tal-Indapur, Dist-Pune, Pin-413114.	Date of Sampling	23/12/2021
	Start Date of Analysis	24/12/2021
	End Date of Analysis	28/12/2021
	Sample Location	Boiler (66 TPH)
	Sample Details	Stack
	Time of Sampling	13:45
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	110	°C		
8.	Differential Pressure	9.5	mmWG		
9.	Velocity	11.45	M/s		
10.	Dimensions of Stack	3.6	Mtr.		
11.	Gas Volume	308479.8	NM ³ /Hr		
12.	Suspended Particulate Matter (SPM)	86.9	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/2021-22/12/1076	Date of Report	28/12/2021
Client Name and Address: M/s. Nira Bhima Sahakari Sakhar Karkhana Ltd. Shahajinagar ,Post-Redni, Tal-Indapur, Dist-Pune, Pin-413114.	Date of Sampling	23/12/2021
	Start Date of Analysis	24/12/2021
	End Date of Analysis	28/12/2021
	Sample Details	Raw Spent Wash Sample
	Nature of sample	Untreated
Sample Collected By	Green Envirosafe Engineers & Consultant Pvt. Ltd, Pune	

Water Analysis Report

Sr. No.	Parameter	Result	Unit(s)
1.	pH	4.1	--
2.	EC	13540	µS/m
3.	BOD	46933	mg/lit
4.	COD	84739	mg/lit
5.	Total Dissolved Solids	35426	mg/lit
6.	Total Suspended Solids	49765	mg/lit
7.	Total Solids	85191	

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TEST CERTIFICATE

Report No: GESEC/PRO/2021-22/12/1077	Date of Report	28/12/2021
Client Name and Address: M/s. Nira Bhima Sahakari Sakhar Karkhana Ltd. Shahajinagar ,Post-Redni, Tal-Indapur, Dist-Pune, Pin-413114.	Date of Sampling	23/12/2021
	Start Date of Analysis	24/12/2021
	End Date of Analysis	28/12/2021
	Sample Details	Bio Methanated Spent Wash Sample
	Nature of sample	Untreated
Sample Collected By	Green EnviroSafe Engineers & Consultant Pvt. Ltd, Pune	

Water Analysis Report

Sr. No.	Parameter	Result	Unit(s)
1.	pH	7.5	--
2.	EC	20955	µS/m
3.	BOD	11259	mg/lit
4.	COD	29690	mg/lit
5.	Volatile Acids	3512	mg/lit
6.	Alkalinity	22840	mg/lit
7.	Acidity	896	mg/lit
8.	Suspended Solids	8938	mg/lit

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Report No: GESEC/PRO/2021-22/12/1078	Date of Report	28/12/2021
Client Name and Address: M/s. Nira Bhima Sahakari Sakhar Karkhana Ltd. Shahajinagar ,Post-Redni, Tal-Indapur, Dist-Pune, Pin-413114.	Date of Sampling	23/12/2021
	Sample Details	Compost Sample
Sample Collected By	Green Envirosafe Engineers & Consultant Pvt. Ltd, Pune	

Compost Sample Report

Sr. No.	Location	Result	Unit	Standard Value	The Factories Act 1948, standards
1.	pH at 25°C	7.3	--	Not Applicable	IS:10158-1982(RA:2009)-7, page no 18
2.	Moisture	31.2	%	Not Applicable	IS:9235-1979(RA:2009),4.1, page no.5
3.	Total Organic Carbon	30.5	%	Not Applicable	Fertilizer Control Order, 1985, page no. 144-A
4.	Total organic Matter	43.8	%	Not Applicable	Fertilizer Control Order, 1985, page no. 144-A
5	Total Nitrogen as N	2.3	%	Not Applicable	IS:10158-1982(RA:2009)-5, page no.8
6.	Total Phosphate as P ₂ O ₅	3.5	%	Not Applicable	IS:10158-1982(RA:2009)-10.1A, page no.19
7.	Total Potassium	3.0	%	Not Applicable	IS:10158-1982(RA:2009)-9, page no.18
8.	C:N Ratio	13.26	--	Not Applicable	Fertilizer Control Order, 1985, page no. 144-B

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Report No: GESEC/PRO/2021-22/12/1079	Date of Report	28/12/2021
Client Name and Address: M/s. Nira Bhima Sahakari Sakhar Karkhana Ltd. Shahajinagar ,Post-Redni, Tal-Indapur, Dist-Pune, Pin-413114.	Date of Sampling	23/12/2021
	Start Date of Analysis	24/12/2021
	End Date of Analysis	28/12/2021
	Sample Details	ETP Inlet
	Nature of sample	Liquid
Sample Collected By	Green Envirosafe Engineers & Consultant Pvt. Ltd, Pune	

Water Analysis Report

Sr. No.	Parameter	Result	Unit(s)	Standard Method
Physical Parameter				
1.	Total Suspended Solids	535	mg/lit	APHA 2540,D, 23rd Edition, 2017
2.	Total Dissolved Solids	2508.3	mg/lit	APHA 2540,C,23rd Edition, 2017
Chemical Parameter				
3.	pH	5.7	--	APHA 4500 H+, A, 23rd Edition.2017
4.	BOD at 27°C for 3 days	1529.0	mg/lit	IS 3025 (Part 44), 2019
5.	Oil and Grease	23.6	mg/lit	IS 3025 (Part 39), 2019
6.	COD	3371.0	mg/lit	IS 3025 (Part 58) , 2019
7.	Chloride (as Cl)	138.6	mg/lit	IS 3025 (Part 39), 2019
8.	Sulphate (as SO4)	143.2	mg/lit	IS 3025 (Part 24) , 2019

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	Start Date of Analysis	24/12/2021
	End Date of Analysis	28/12/2021
	Sample Details	ETP Outlet
	Nature of sample	Liquid
Sample Collected By	Green Envirosafe Engineers & Consultant Pvt. Ltd, Pune	

Water Analysis Report

Sr. No.	Parameter	Result	Unit(s)	Limits	Standard Method
Physical Parameter					
1.	Total Suspended Solid	43.9	mg/lit	<100	APHA 2540,D, 23rd Edition, 2017
2.	Total Dissolved Solids	512.0	mg/lit	<2100	APHA 2540,C,23rd Edition, 2017
Chemical Parameter					
3.	pH	7.9	--	5.5-9.0	APHA 4500 H+, A, 23rd Edition.2017
4.	BOD at 27°C for 3 days	30.2	mg/lit	<100	IS 3025 (Part 44), 2019
5.	Oil and grease	7.9	mg/lit	<10	IS 3025 (Part 39), 2019
6.	COD	123.3	mg/lit	<250	IS 3025 (Part 58) , 2019
7.	Chloride (as Cl)	19.3	mg/lit	600	IS 3025 (Part 39), 2019
8.	Sulphate (as SO4)	83.2	mg/lit	1000	IS 3025 (Part 24) , 2019

Remarks: All above results are within MPCB Limits

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Client Name and Address: M/s. Nira Bhima Sahakari Sakhar Karkhana Ltd. Shahajinagar ,Post-Redni, Tal-Indapur, Dist-Pune, Pin-413114.	Date of Sampling	23/12/2021
	Sample Details	Press Mud Sample
Sample Collected By	Green Envirosafe Engineers & Consultant Pvt. Ltd, Pune	

Press Mud Sample Report

Sr. No.	Location	Result	Unit	Standard Value	The Factories Act 1948, standards
1.	pH at 25°C	7.10	--	Not Applicable	IS:10158-1982(RA:2009)-7, page no 18
2.	Moisture	67.5	%	Not Applicable	IS:9235-1979(RA:2009),4.1, page no.5
3.	Total Organic Carbon	29.6	%	Not Applicable	Fertilizer Control Order, 1985, page no. 144-A
4.	Total organic Matter	42.5	%	Not Applicable	Fertilizer Control Order, 1985, page no. 144-A
5	Total Nitrogen as N	1.52	%	Not Applicable	IS:10158-1982(RA:2009)-5, page no.8
6.	Total Phosphate as P ₂ O ₅	1.36	%	Not Applicable	IS:10158-1982(RA:2009)-10.1A, page no.19
7.	Total Potassium	2.9	%	Not Applicable	IS:10158-1982(RA:2009)-9, page no.18
8.	C:N Ratio	19.47	--	Not Applicable	Fertilizer Control Order, 1985, page no. 144-B

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