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TEST (	CERTIFICATE	
Report No: GESEC/PRO/2021-22/02/158	Date of Report	28/02/2022
Client Name and Address: M/s. NiraBhimaSahakariSakharKarkhana Ltd. Shahajinagar ,Post-Redni,	Date of Sampling	22/02/2022
	Start Date of Analysis	23/02/2022
	End Date of Analysis	28/02/2022
Tal-Indapur, Dist-Pune, Pin-413114.	Sample Details	Ambient Air
Tarindaput, Dist Func, in 413114.	Sample Location	Near Guest House
	Time of Sampling	10:15
Sample Collected By	GESEC	

Ambient AirAnalysis Report

Sr. No.	Parameter	Result	Unit(s)	NAAQ Standards	
1.	Ambient Temperature	30	°C		
2.	Dry Bulb Temperature	30	°C		
3.	Wet Bulb Temperature	27	°C		
4.	Relative Humidity	43	% RH		
5.	Sampling Duration	1440	Min		
6.	Sulphur Dioxide(SO <sub>2</sub> )	25.74	μg/M³	≤ 80 ≤ 80	
7.	Oxides of Nitrogen(NO <sub>2</sub> )	37.10	μg/M³		
8.	Particulate Matter PM <sub>10</sub>	35.22	μg/M³	≤ 100	
9.	Particulate Matter PM <sub>2.5</sub>	16.85	μg/M³	≤ 60	
10.	Carbon Monoxide (CO)	0.62	mg/M <sup>3</sup>	≤ 04(1 Hr)	

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Remark-

All above results are within National Ambient Air Quality standards.

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TEST (	CERTIFICATE	
Report No: GESEC/PRO/2021-22/02/159	Date of Report	28/02/2022
Client Name and Address:  M/s. NiraBhimaSahakariSakharKarkhana Ltd.  Shahajinagar ,Post-Redni,	Date of Sampling	22/02/2022
	Start Date of Analysis	23/02/2022
	End Date of Analysis	28/02/2022
Tal-Indapur, Dist-Pune, Pin-413114.	Sample Details	Ambient Air
rai-indapur, Dist-Pune, Pin-415114.	Sample Location	Near Main Gate
	Time of Sampling	10:45
Sample Collected By	GESEC	

Ambient AirAnalysis Report

Sr. No.	Parameter	Result	Unit(s)	NAAQ Standards	
1.	Ambient Temperature	30	°C		
2.	Dry Bulb Temperature	30	°C		
3.	Wet Bulb Temperature	27	°C		
4.	Relative Humidity	43	% RH		
5.	Sampling Duration	1440	Min		
6.	Sulphur Dioxide(SO <sub>2</sub> )	23.74	μg/M³	≤ 80	
7.	Oxides of Nitrogen(NO <sub>2</sub> )	21.66	μg/M³	≤ 80	
8.	Particulate Matter PM <sub>10</sub>	36.25	μg/M³	≤ 100	
9.	Particulate Matter PM <sub>2.5</sub>	17.55	μg/M³	≤ 60	
10.	Carbon Monoxide (CO)	0.95	mg/M <sup>3</sup>	≤ 04(1 Hr)	

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## Remark-

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

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TEST (	CERTIFICATE	
Report No: GESEC/PRO/2021-22/02/160	Date of Report	28/02/2022
Client Name and Address: M/s. NiraBhimaSahakariSakharKarkhana Ltd. Shahajinagar ,Post-Redni,	Date of Sampling	22/02/2022
	Start Date of Analysis	23/02/2022
	End Date of Analysis	28/02/2022
Tal-Indapur, Dist-Pune, Pin-413114.	Sample Details	Ambient Air
Tal-Illuapur, Distri une, Fili 413114.	Sample Location	Near ETP Area
	Time of Sampling	11:15
Sample Collected By	GESEC	

Ambient AirAnalysis Report

		IIIDICITE AII AII dily 3		apper park des la Arthur (no comprese part of the first half to be a part of the part of t
Sr. No.	Parameter	Result	Unit(s)	NAAQ Standards
1.	Ambient Temperature	30	°C	
2.	Dry Bulb Temperature	30	°C	v
3.	Wet Bulb Temperature	27	°C	
4.	Relative Humidity	43	% RH	
5.	Sampling Duration	1440	Min	2
6.	Sulphur Dioxide(SO <sub>2</sub> )	4.0	μg/M³	≤ 80
7.	Oxides of Nitrogen(NO <sub>2</sub> )	17.2	μg/M <sup>3</sup>	≤ 80
8.	Particulate Matter PM <sub>10</sub>	36.4	μg/M³	≤ 100
9.	Particulate Matter PM <sub>2.5</sub>	17.2	μg/M³	≤ 60
10.	Carbon Monoxide (CO)	0.75	mg/M <sup>3</sup>	≤ 04(1 Hr)

Remark-

All above results are within National Ambient Air Quality standards.

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TEST C	ERTIFICATE	
Report No: GESEC/PRO/2021-22/02/161	Date of Report	28/02/2022
Client Name and Address:	Date of Sampling	22/02/2022
M/s. NiraBhimaSahakariSakharKarkhana Ltd. Shahajinagar ,Post-Redni,	Sample Details	Ambient Noise
Tal-Indapur, Dist-Pune, Pin-413114.		
Sample Collected By	GESEC	

Sr.		Result dB(A)	Result dB(A)	<b>CPCB Standards</b>
No.	Location	Day	Night	dB(A)
1.	Near ETP Area	51.2	43.8	55/45
2.	Near Office	54.0	42.7	
3.	Near Main Gate	50.7	43.8	
4.	Near Sugar Godown	53.8	41.8	
5.	Near Guest House Area	52.9	40.7	

## 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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TEST C	CERTIFICATE	
Report No: GESEC/PRO/2021-22/02/162	Date of Report	28/02/2022
Client Name and Address: M/s. NiraBhimaSahakariSakharKarkhana Ltd. Shahajinagar ,Post-Redni,	Date of Sampling	22/02/2022
	Start Date of Analysis	23/02/2022
	End Date of Analysis	28/02/2022
Tal-Indapur, Dist-Pune, Pin-413114.	Sample Location	Boiler (40 TPH)
Tal-Illuapur, Dist Fulle, Fill 413111.	Sample Details	Stack
	Time of Sampling	11:15
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		Add com
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	non Par		
6.	Sampling Duration	30	Min.		
7.	Flue Gas Temperature	116	°C		
8.	Differential Pressure	6.8	mmWG		
9.	Velocity	9.76	M/s		
10.	Dimensions of Stack	3.5	Mtr.		
11.	Gas Volume	258967.0	NM <sup>3</sup> /Hr		
12.	Suspended Particulate Matter (SPM)	85.0	mg/NM <sup>3</sup>	≤ 150	IS:11255(Part 1)-1985

# Remark(s):

All above results are well within MPCB Limit.

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TE	ST CERTIFICATE	
Report No: GESEC/PRO/2021-22/02/163	Date of Report	28/02/2022
Client Name and Address: M/s. NiraBhimaSahakariSakharKarkhana Ltd.	Date of Sampling	22/02/2022
	Start Date of Analysis	23/02/2022
	End Date of Analysis	28/02/2022
Shahajinagar ,Post-Redni,	Sample Location	Boiler (66 TPH)
Tal-Indapur, Dist-Pune, Pin-413114.	Sample Details	Stack
Tal-illuaput, Dist-Fulle, Fill-413114.	Time of Sampling	12:15
Sample Collected By	GESEC	A.

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		wite selfer	100 FF
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	111	°C		*
8.	Differential Pressure	9.4	mmWG		
9.	Velocity	11.41	M/s	7	
10.	Dimensions of Stack	3.6	Mtr.		
11.	Gas Volume	324241.09	NM³/Hr		
12.	Suspended Particulate Matter (SPM)	87.5	mg/NM <sup>3</sup>	≤ 150	IS:11255(Part 1)-1985

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## Remark(s):

All above results are well within MPCB Limit

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	TE	ST CERTIFICATE	1
Repo	rt No: GESEC/PRO/2021-22/02/164	Date of Report	28/02/2022
Client Name and Address: M/s. NiraBhimaSahakariSakharKarkhana Ltd. Shahajinagar ,Post-Redni,		Date of Sampling	22/02/2022
		Start Date of Analys	is 23/02/2022
		End Date of Analysis	28/02/2022
		Sample Details	Raw Spent Wash Sample
Tal-I	ndapur, Dist-Pune, Pin-413114.	Nature of sample	Untreated
Samı	ole Collected By	GESEC	
	Wat	er Analysis Report	
Sr. No.	Parameter	Result	Unit(s)
1.	рН	4.5	
2.	EC	13525	μS/m
3.	BOD	46918	mg/lit
4.	COD	84709	mg/lit
5.	Total Dissolved Solids	35429	mg/lit
6.	Total Suspended Solids	49749	mg/lit
7.	Total Solids	85158	
ANA	WYZED BY-	PUNE PUNE PUNE	Authorized signatory

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	TE	ST CERTIFICATE	
Repo	ort No: GESEC/PRO/2021-22/02/165	Date of Report	28/02/2022
Client Name and Address:		Date of Sampling	22/02/2022
M/s	. NiraBhimaSahakariSakharKarkhan	a Start Date of Analys	is 23/02/2022
Ltd. Shahajinagar ,Post-Redni, Tal-Indapur, Dist-Pune, Pin-413114.		End Date of Analysis	s 28/02/2022
		Sample Details	Bio MethanatedSpent Wash Sample
		Nature of sample	Untreated
Sam	ple Collected By	GESEC	
	Wat	er Analysis Report	
Sr. No	Parameter	Result	Unit(s)
1.	рН	7.4	
2.	EC	20933	μS/m
3.	BOD	11201	mg/lit
4.	COD	29656	mg/lit
5.	Volatile Acids	3478	mg/lit
6.	Alkalinity	22801	mg/lit
7.	Acidity	869	mg/lit
8.	Suspended Solids	8901	mg/lit
ANA	LYZED BY-	PUNE PUNE	AUTHORIZED SIGNATORY

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TEST	CERTIFICATE	
Report No: GESEC/PRO/2021-22/02/166	Date of Report	28/02/2022
Client Name and Address:	Date of Sampling	22/02/2022
M/s. NiraBhimaSahakariSakharKarkhana Ltd. Shahajinagar ,Post-Redni, Tal-Indapur, Dist-Pune, Pin-413114.	Sample Details	Compost Sample
Sample Collected By	GESEC	

Sr. No.	Location	Result	Unit	Standard Value	The Factories Act 1948, standards
1.	pH at 25°C	7.6		Not Applicable	IS:10158- 1982(RA:2009)-7, page no 18
2.	Moisture	26.1	%	Not Applicable	IS:9235- 1979(RA:2009),4.1, page no.5
3.	Total Organic Carbon	29.5	%	Not Applicable	Fertilizer Control Order, 1985, page no. 144-A
4.	Total organic Matter	43.1	%	Not Applicable	Fertilizer Control Order, 1985, page no. 144-A
5	Total Nitrogen as N	2.7	%	Not Applicable	IS:10158- 1982(RA:2009)-5, page no.8
6.	Total Phosphate as P₂O₅	3.3	%	Not Applicable	IS:10158- 1982(RA:2009)- 10.1A, page no.19
7.	Total Potassium	2.6	%	Not Applicable	IS:10158- 1982(RA:2009)-9, page no.18
8.	C:N Ratio	10.92		Not Applicable	Fertilizer Control Order, 1985, page no. 144-B

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		TEST CERTIFICA	ATE		
Repo	rt No: GESEC/PRO/2021-22/02/167	Date of Repor	t	28/02/2022	
Client Name and Address: M/s. NiraBhimaSahakariSakharKarkhana Ltd. Shahajinagar ,Post-Redni, Tal-Indapur, Dist-Pune, Pin-413114.		Date of Sampling		22/02/2022	
		Start Date of A	Analysis	23/02/2022	
		End Date of Analysis		28/02/2022	
		Sample Location		ETP	
		Sample Detail	S	ETP Inlet	
Samp	ole Collected By	GESEC			
	Wa	ater Analysis F	Report		
Sr. No.	Parameter	Result	Unit(s)	Standard Method	
		Physical Parame	eter		
1.	Total Suspended Solids	536	mg/lit	APHA 2540-D	
2.	Total Dissolved Solids	2498.2	mg/lit	APHA 2540-C	
		Chemical Param	eter	(f)	
3.	рН	6.1		APHA 4500 −H <sup>+</sup>	
4.	BOD at 27°C for 3 days	1523.8	mg/lit	Modified Wrinkler`s Idometric Method	
5.	Oil and Grease	23.4	mg/lit	APHA 5520 B	
6.	COD	3301.2	mg/lit	APHA 5220 B	
7.	Chloride (as Cl)	130.4	mg/lit	APHA 5220 B	
8.		139.2	mg/lit	APHA 5220 B	
Rem	nark(s):	(ENVID			
ANA	LYZED BY-	PUNE PUNE	160. 33. W.	AUTHORIZED SIGNATORY	

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TEST CERTIFICATE					
Report No: GESEC/PRO/2021-22/02/168	Date of Report	28/02/2022			
Client Name and Address:	Date of Sampling	22/02/2022			
		22/02/2022			

M/s. NiraBhimaSahakariSakharKarkhana Ltd.

Shahajinagar ,Post-Redni, Tal-Indapur, Dist-Pune, Pin-413114.

Sample Collected By

Date of Report	28/02/2022
Date of Sampling	22/02/2022
Start Date of Analysis	23/02/2022
End Date of Analysis	28/02/2022
Sample Details	ETP
Nature of sample	ETP Outlet
GESEC	

**Water Analysis Report** 

Sr. No.	Parameter	Result	Unit(s)	Limits	Standard Method
-		Physica	l Parameter		
1.	Total Suspended Solid	43.9	mg/lit	<100	APHA 2540-D
2.	Total Dissolved Solids	512.3	mg/lit	<2100	APHA 2540-C
		Chemic	al Parameter		
3.	рН	8.4		5.5-9.0	APHA 4500 −H <sup>+</sup>
4.	BOD at 27°C for 3 days	31.5	mg/lit	<100	Modified Wrinkler`s Idometric Method
5.	Oil and grease	7.9	mg/lit	<10	APHA 5520 B
6.	COD	73.6	mg/lit	<250	APHA 5220 B
7.	Chloride (as CI)	23.5	mg/lit	600	APHA 5220 B
8.	Sulphate (as SO4)	84.1	mg/lit	1000	APHA 5220 B

Remarks: All above results are within MPCB Limits

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TEST	CERTIFICATE	
Report No: GESEC/PRO/2021-22/02/169	Date of Report	28/02/2022
Client Name and Address:	Date of Sampling	22/02/2022
M/s. NiraBhimaSahakariSakharKarkhana Ltd. Shahajinagar ,Post-Redni, Tal-Indapur, Dist-Pune, Pin-413114.	Sample Details	Press Mud Sample
Sample Collected By	GESEC	

Sr. No.	Location	Result	Unit	Standard Value	The Factories Act 1948, standards
1.	pH at 25°C	7.4		Not Applicable	IS:10158- 1982(RA:2009)-7, page no 18
2.	Moisture	67.25	%	Not Applicable	IS:9235- 1979(RA:2009),4.1, page no.5
3.	Total Organic Carbon	31.74	%	Not Applicable	Fertilizer Control Order, 1985, page no. 144-A
4.	Total organic Matter	42.15	%	Not Applicable	Fertilizer Control Order, 1985, page no. 144-A
5	Total Nitrogen as N	1.54	%	Not Applicable	IS:10158- 1982(RA:2009)-5, page no.8
6.	Total Phosphate as P₂O₅	1.57	%	Not Applicable	IS:10158- 1982(RA:2009)- 10.1A, page no.19
7.	Total Potassium	3.3	%	Not Applicable	IS:10158- 1982(RA:2009)-9, page no.18
8.	C:N Ratio	20.61	- we se	Not Applicable	Fertilizer Control Order, 1985, page no. 144-B

ANALYZED BY-

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**AUTHORIZED SIGNATORY** 

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