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Reno	ort No: GESEC/PRO/2021-22/01/154		ERTIFIC		0.000.000
		<b>!</b>	Date of		28/01/2022
	nt Name and Address:			Sampling	21/01/2022
	NiraBhimaSahakariSakharKarkl	iana Ltd.		nte of Analysis	22/01/2022
	ajinagar ,Post-Redni,			e of Analysis	28/01/2022
i ai-ii	ndapur, Dist-Pune,Pin-413114.		Sample		Ambient Air
			-	Location Sampling	Near Guest House
Samı	ole Collected By		GESEC	Sampling	10:30
		nbient Ai		s Report	
Sr. No.	Parameter	Res	sult	Unit(s)	NAAQ Standards
1.	Ambient Temperature	-2	5	°C	
2.	Dry Bulb Temperature	2	5	°C	
3.	Wet Bulb Temperature	2	0	°C	
4.	Relative Humidity	3	9	% RH	
5.	Sampling Duration	14	40	Min	
6.	Sulphur Dioxide(SO <sub>2</sub> )	26	.95	μg/M³	≤ 80
7.	Oxides of Nitrogen(NO <sub>2</sub> )	39	.60	μg/M³	≤ 80
8.	Particulate Matter PM <sub>10</sub>	38	.15	μg/M³	≤ 100
- I	Particulate Matter PM <sub>2.5</sub>	21	.44	μg/M³	≤ 60
9.			51	mg/M <sup>3</sup>	≤ 04(1 Hr)

**ANALYZED BY-**



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GESEC

		TEST (	ERTIFIC	ATE	
Repo	rt No: GESEC/PRO/2021-22/01/155	5	Date of	Report	28/01/2022
Clier	it Name and Address:		Date of	Sampling	21/01/2022
M/s	NiraBhimaSahakariSakharKark	nana Ltd.	Start Da	ate of Analysis	22/01/2022
Shah	ajinagar ,Post-Redni,		End Dat	e of Analysis	28/01/2022
Tal-I	ndapur, Dist-Pune, Pin-413114.		Sample	Details	Ambient Air
			Sample	Location	Near Main Gate
			Time of	Sampling	11:00
Samp	ole Collected By		GESEC		
	Aı	mbient Ai	rAnalysi	s Report	
Sr. No.	Parameter	Res	sult	Unit(s)	NAAQ Standards
1.	Ambient Temperature	2	5	°C	
2.	Dry Bulb Temperature	2	5	°C -	
3.	Wet Bulb Temperature	2	0	°C	
4.	Relative Humidity	3	9	% RH	
5.	Sampling Duration	14	40	Min	
6.	Sulphur Dioxide(SO <sub>2</sub> )	24	.21	μg/M³	≤ 80
7.	Oxides of Nitrogen(NO <sub>2</sub> )	22	.51	μg/M³	≤ 80
8.	Particulate Matter PM <sub>10</sub>	40	.85	μg/M³	≤ 100
9.	Particulate Matter PM <sub>2.5</sub>	20	.66	μg/M³	≤ 60
10.	Carbon Monoxide (CO)	1.	39	mg/M <sup>3</sup>	≤ 04(1 Hr)
Rema	<ul><li>All above results are within №</li></ul>	National Amb	oient Air O		
ANAL	YZED BY-	Vacional Alli	NVIROS	vality stallualus.	AUTHORIZED SIGNATOR

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GESEC

		TEST C	ERTIFICA	\TE	
Repo	rt No: GESEC/PRO/2021-22/01/:	156	Date of F	Report	28/01/2022
Clien	t Name and Address:		Date of S	ampling	21/01/2022
M/s.	NiraBhimaSahakariSakharKa	rkhana Ltd.	Start Dat	e of Analysis	22/01/2022
Shah	ajinagar ,Post-Redni,		End Date of Analysis Sample Details		28/01/2022 Ambient Air
Tal-Ir	ndapur, Dist-Pune, Pin-413114				
			Sample Location		Near ETP Area
			Time of S	Sampling	11:30
Samp	le Collected By		GESEC		
		Ambient Ai	rAnalysis	Report	
Sr. No.	Parameter	Res	sult	Unit(s)	NAAQ Standards
1.	Ambient Temperature	2	25	°C	
2.	Dry Bulb Temperature	2	25	°C	
					4

1.	Ambient Temperature	25	°C	
2.	Dry Bulb Temperature	25	°C	
3.	Wet Bulb Temperature	20	°C	
4.	Relative Humidity	39	% RH	
5.	Sampling Duration	1440	Min	,
6.	Sulphur Dioxide(SO₂)	4.2	μg/M³	≤ 80
7.	Oxides of Nitrogen(NO <sub>2</sub> )	19.0	μg/M³	≤ 80
8.	Particulate Matter PM <sub>10</sub>	42.1	μg/M³	≤ 100
9.	Particulate Matter PM <sub>2.5</sub>	19.6	μg/M³	≤ 60
10.	Carbon Monoxide (CO)	1.47	mg/M <sup>3</sup>	≤ 04(1 Hr)

Remark-

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

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GESEC

ERTIFICATE	
Date of Report	28/01/2022
Date of Sampling	21/01/2022
Sample Details	Ambient Noise
GESEC	
	Date of Sampling Sample Details

Sr. No.	Location	Result dB(A) Day	Result dB(A) Night	CPCB Standards dB(A)
1.	Near ETP Area	50.2	42.6	
2.	Near Office	54.6	43.9	
3.	Near Main Gate	51.7	42.9	55/45
4.	Near Sugar Godown	54.8	42.1	,
5.	Near Guest House Area	53.6	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.

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All aboveresults are within the prescribed limit by MPCB.

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TEST (	CERTIFICATE	
Report No: GESEC/PRO/2021-22/01/158	Date of Report	28/01/2022
Client Name and Address:  M/s. NiraBhimaSahakariSakharKarkhana Ltd.  Shahajinagar ,Post-Redni,	Date of Sampling	21/01/2022
	Start Date of Analysis	22/01/2022
	End Date of Analysis	28/01/2022
Tal-Indapur, Dist-Pune, Pin-413114.	Sample Location	Boiler (40 TPH)
	Sample Details	Stack
Sample Collected By	Time of Sampling	12:30
Sample Collected By	GESEC	

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	115	°C		
8.	Differential Pressure	6.7	mmWG		
9.	Velocity	9.68	M/s		
10.	Dimensions of Stack	3.5	Mtr.		
11.	Gas Volume	257437	NM <sup>3</sup> /Hr		
12.	Suspended Particulate Matter (SPM)	83.9	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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GESEC

TE	ST CERTIFICATE	
Report No: GESEC/PRO/2021-22/01/159	Date of Report	28/01/2022
Client Name and Address:	Date of Sampling	21/01/2022
M/s. NiraBhimaSahakariSakharKarkhana	Start Date of Analysis	22/01/2022
Ltd.	End Date of Analysis	28/01/2022
Shahajinagar ,Post-Redni,	Sample Location	Boiler (66 TPH)
Tal-Indapur, Dist-Pune, Pin-413114.	Sample Details	Stack
	Time of Sampling	13:30
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	was now	
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	109	°C		
8.	Differential Pressure	9.3	mmWG		
9.	Velocity	11.31	M/s		
10.	Dimensions of Stack	3.6	Mtr.		
11.	Gas Volume	323391.0	NM <sup>3</sup> /Hr		
12.	Suspended Particulate Matter (SPM)	88.7	mg/NM <sup>3</sup>	≤ 150	IS:11255(Part 1)-1985

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The Consultant

# Remark(s):

All above results are well within MPCB Limit

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		TES	ST CERTIFICATE	
Repo	rt No: GESEC/PRO/2021-22/01/	160	Date of Report	28/01/2022
Client Name and Address:		Date of Sampling	21/01/2022	
M/s.	NiraBhimaSahakariSakharKa	rkhana	Start Date of Analy	ysis 22/01/2022
Ltd.			End Date of Analys	sis 28/01/2022
Shah	ajinagar ,Post-Redni,		Sample Details	Raw Spent Wash Sample
Tal-li	ndapur, Dist-Pune, Pin-413114		Nature of sample	Untreated
Samp	ole Collected By		GESEC	
		Wate	er Analysis Report	
Sr. No.	Parameter		Result	Unit(s)
1.	рН	5	4.3	
2.	EC		13533	μS/m
3.	BOD		46925	mg/lit
4.	COD		84728	mg/lit
5.	Total Dissolved Solids		35418	mg/lit
6.	Total Suspended Solids		49758	mg/lit
7.	Total Solids		85176	
ANAL	YZED BY-		<u> </u>	AUTHORIZED SIGNATOR
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Date of Report Date of Sampling Start Date of Analysis End Date of Analysis	28/01/2022 21/01/2022 22/01/2022
Date of Sampling Start Date of Analysis End Date of Analysis	21/01/2022 22/01/2022
Start Date of Analysis End Date of Analysis	22/01/2022
End Date of Analysis	
	20/04/2022
	28/01/2022
Sample Heralle	Bio MethanatedSpent
Sample Details	Wash Sample
Nature of sample	Untreated
GESEC	
r Analysis Report	
Result	Unit(s)
7.3	
20938	μS/m
11235	mg/lit
29675	mg/lit
3496	mg/lit
22826	mg/lit
878	mg/lit
8935	mg/lit
·	AUTHORIZED SIGNATOR
NIROSAFE DI VIO WELL	Hande.
	7.3 20938 11235 29675 3496 22826 878

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			GESEC		
			CERTIFICATE		
Report No: GESEC/PRO/2021-22/01/162			Date of Report		28/01/2022
Client Name and Address:			Date of Sampling		21/01/2022
M/s. NiraBhimaSahakariSakharKarkhana Ltd. Shahajinagar ,Post-Redni, Tal-Indapur, Dist-Pune, Pin-413114.			Sample Details	Compost Sample	
Samp	ole Collected By		GESEC		
-		Composi	t Sample Repo	rt	
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	25.9	%	Not Applicable	IS:9235-1979(RA:2009),4.1 page no.5
3.	Total Organic Carbon	28.9	%	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	2.4	%	Not Applicable	IS:10158-1982(RA:2009)-5, page no.8
6.	Total Phosphate as P <sub>2</sub> O <sub>5</sub>	3.2	%	Not Applicable	IS:10158-1982(RA:2009)- 10.1A, page no.19
7.	Total Potassium	2.8	%	Not Applicable	IS:10158-1982(RA:2009)-9 page no.18
8.	C:N Ratio	12.04	_	Not Applicable	Fertilizer Control Order, 1985, page no. 144-B
ANAL	YZED BY-			-	AUTHORIZED SIGNATOR
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NAME OF THE OWNER, WHEN		TEST CERTIFIC	ATE			
Repo	rt No: GESEC/PRO/2021-22/01/163	Date of Repor	t	28/01/2022		
Clien	it Name and Address:	Date of Samp	ling	21/01/2022		
M/s.	NiraBhimaSahakariSakharKarkhana	Start Date of	Analysis	22/01/2022		
Ltd.		End Date of A	nalysis	28/01/2022		
Shah	ajinagar ,Post-Redni,	Sample Locati	on	ETP		
Tal-li	ndapur, Dist-Pune, Pin-413114.	Sample Detail	s	ETP Inlet		
Samp	ole Collected By	GESEC				
	Wa	ater Analysis I	Report			
Sr. No.	Parameter	Result	Unit(s)	Standard Method		
		Physical Parame	eter			
1.	Total Suspended Solids	532	mg/lit	APHA 2540-D		
2.	Total Dissolved Solids	2510.6	mg/lit	APHA 2540-C		
		<b>Chemical Param</b>	eter			
3.	рН	5.9		APHA 4500 −H <sup>+</sup>		
4.	BOD at 27°C for 3 days	1525.8	mg/lit	Modified Wrinkler`s Idometric Method		
5.	Oil and Grease	24.6	mg/lit	APHA 5520 B		
6.	COD	3365.9	mg/lit	APHA 5220 B		
7.	Chloride (as Cl)	135.2	mg/lit	APHA 5220 B		
8.	Sulphate (as SO4)	141.6	mg/lit	APHA 5220 B		
ANAI	AZED BA-	PUNE PUNE		AUTHORIZED SIGNATOR		

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GESEC

•	TEST CERTIFICATE		
Report No: GESEC/PRO/2021-22/12/164	Date of Report	28/01/2022	
Client Name and Address:	Date of Sampling	21/01/2022	
M/s. NiraBhimaSahakariSakharKarkhana	Start Date of Analysis	22/01/2022	
Ltd.	End Date of Analysis	28/01/2022	
Shahajinagar ,Post-Redni,	Sample Details	ETP	
Tal-Indapur, Dist-Pune, Pin-413114.	Nature of sample	ETP Outlet	
Sample Collected By	GESEC		

		Water An	alysis Repo	rt	
Sr. No.	Parameter	Result	Unit(s)	Limits	Standard Method
		Physica	l Parameter		
1.	Total Suspended Solid	42.5	mg/lit	<100	APHA 2540-D
2.	Total Dissolved Solids	509.2	mg/lit	<2100	APHA 2540-C
		Chemic	al Parameter		
3.	рН	8.1		5.5-9.0	APHA 4500 −H <sup>+</sup>
4.	BOD at 27°C for 3 days	29.6	mg/lit	<100	Modified Wrinkler`s Idometric Method
5.	Oil and grease	7.7	mg/lit	<10	APHA 5520 B
6.	COD	79.6	mg/lit	<250	APHA 5220 B
7.	Chloride (as Cl)	21.5	mg/lit	600	APHA 5220 B
8.	Sulphate (as SO4)	85.6	mg/lit	1000	APHA 5220 B

Remarks: All above results are within MPCB Limits

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GESEC

	TECT	CERTIFICATI	-			
rt No: GESEC/PRO/2021-22/12				20/04/2022		
Client Name and Address:  M/s. NiraBhimaSahakariSakharKarkhana Ltd.  Shahajinagar ,Post-Redni,  Tal-Indapur, Dist-Pune, Pin-413114.		The state of the s		28/01/2022 21/01/2022 Press Mud Sample		
		•				
le Collected By		GESEC				
	Press Mu	d Sample Re	port			
Location	Result	Unit	Standard Value	The Factories Act 1948, standards		
pH at 25°C	7.2		Not Applicable	IS:10158-1982(RA:2009)-7, page no 18		
Moisture	68.9	%	Not Applicable	IS:9235-1979(RA:2009),4.1, page no.5		
Total Organic Carbon	29.4	%	Not Applicable	Fertilizer Control Order, 1985, page no. 144-A		
Total organic Matter	43.6	%	Not Applicable	Fertilizer Control Order, 1985, page no. 144-A		
Total Nitrogen as N	1.42	%	Not Applicable	IS:10158-1982(RA:2009)-5, page no.8		
Total Phosphate as P <sub>2</sub> O <sub>5</sub>	1.42	%	Not Applicable	IS:10158-1982(RA:2009)-10.1A page no.19		
Total Potassium	3.1	%	Not Applicable	IS:10158-1982(RA:2009)-9, page no.18		
C:N Ratio	20.70		Not Applicable	Fertilizer Control Order, 1985, page no. 144-B		
ZED BY-		NVIROS		AUTHORIZED SIGNATORY		
Shore	S GREEN	PUNE PITTE		Flande.		
	t Name and Address: NiraBhimaSahakariSakharK ajinagar ,Post-Redni, ndapur, Dist-Pune, Pin-41311 lle Collected By  Location  pH at 25°C  Moisture  Total Organic Carbon  Total organic Matter  Total Nitrogen as N  Total Phosphate as P <sub>2</sub> O <sub>5</sub> Total Potassium  C:N Ratio	rt No: GESEC/PRO/2021-22/12/165 t Name and Address: NiraBhimaSahakariSakharKarkhana Ltd. ajinagar ,Post-Redni, ndapur, Dist-Pune, Pin-413114. Ile Collected By  Press Mu  Location  Result  pH at 25°C  7.2  Moisture  68.9  Total Organic Carbon  29.4  Total organic Matter  43.6  Total Nitrogen as N  1.42  Total Phosphate as P <sub>2</sub> O <sub>5</sub> 1.42  Total Potassium  3.1  C:N Ratio  20.70	rt No: GESEC/PRO/2021-22/12/165 t Name and Address: NiraBhimaSahakariSakharKarkhana Ltd. ajinagar ,Post-Redni, ndapur, Dist-Pune, Pin-413114. lle Collected By  GESEC  Press Mud Sample Re  Location  Result  Unit  pH at 25°C  7.2  Moisture  68.9  %  Total Organic Carbon  29.4  **Total organic Matter  43.6  **Total Nitrogen as N  1.42  **Total Phosphate as P2Os  1.42  **Total Potassium  C:N Ratio  20.70  Date of Report Date of Sample  Date of Sa	rt No: GESEC/PRO/2021-22/12/165 t Name and Address: NiraBhimaSahakariSakharKarkhana Ltd. ajinagar ,Post-Redni, idapur, Dist-Pune, Pin-413114. le Collected By  Press Mud Sample Report  Location  Result  Unit  Standard Value  PH at 25°C  7.2  Not Applicable  Total Organic Carbon  Total organic Matter  Total Nitrogen as N  Total Phosphate as P <sub>2</sub> O <sub>5</sub> Total Potassium  C:N Ratio  ZED BY-  Nate of Report  Date of Sampling  Date		

- 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.
- 5. 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.