

ineers & Consultant Pvt Ltd. CIN No.: U74900PN2013PTC149666

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

	T	EST C	ERTIFIC	ATE	
Repo	ort No: GESEC/PRO/2018-19/01/2504		Date of	Report	29/01/2019
Clier	nt Name and Address:		Date of	Sampling	21/01/2019
	. Nira Bhima Sahakari Sakhar Karkhan	a Ltd.	Start Da	te of Analysis	22/01/2019
Shah	ajinagar ,Post-Redni,		End Dat	e of Analysis	28/01/2019
Tal-I	ndapur, Dist-Pune,Pin-413114.		Sample		Ambient Air
				Location	Near Guest House
Same	ale Collected By			Sampling	10:10
Sam	ole Collected By		GESEC		
	Ambie	nt Air	Analysi	s Report	
Sr. No.	Parameter	Res	ult	Unit(s)	NAAQ Standards
1.	Ambient Temperature	28	3	°C	
2.	Dry Bulb Temperature	30	o °C		
3.	Wet Bulb Temperature	27	7	°C	
4.	Relative Humidity	65	5	% RH	
5.	Sampling Duration	144	10	Min	
6.	Sulphur Dioxide(SO <sub>2</sub> )	31.2	20	μg/M³	≤ 80
7.	Oxides of Nitrogen(NO <sub>2</sub> )	35.2	21	μg/M³	≤80
8.	Particulate Matter PM <sub>10</sub>	43.5	51	μg/M³	≤ 100
9.	Particulate Matter PM <sub>2,5</sub>	22.	1	μg/M³	≤ 60
10.	Carbon Monoxide (CO)	0.4	4	mg/M <sup>3</sup>	≤ 04(1 Hr)
Rema	All above results are within Nation	al Amb	ient Air O	uality standards.	
ANAL	YZED BY-	ZEMA	TROSAY.		AUTHORIZED SIGNATORY
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**TEST CERTIFICATE** 

	ort No: GESEC/PRO/2018-19/01/2505		Date of	Report	29/01/2019
Client Name and Address:			Date of Sampling		21/01/2019
	Nira BhimaSahakariSakharKarkhan	a Ltd.	Start Da	ate of Analysis	22/01/2019
	ajinagar ,Post-Redni,		End Dat	e of Analysis	28/01/2019
Tal-I	ndapur, Dist-Pune, Pin-413114.		Sample		Ambient Air
				Location	Near Main Gate
Camer	ole Collected B.			Sampling	11:10
Samp	ple Collected By		GESEC		
	Ambi	ent Aiı	Analysi	s Report	
Sr. No.	Parameter	Res	ult	Unit(s)	NAAQ Standards
1.	Ambient Temperature	3:	2	°C	
2.	Dry Bulb Temperature	3.	2	°C	
3.	Wet Bulb Temperature	2	8	°C	
4.	Relative Humidity	6	9	% RH	
5.	Sampling Duration	14	40	Min	
6.	Sulphur Dioxide(SO <sub>2</sub> )	13.	99	μg/M³	≤ 80
7.	Oxides of Nitrogen(NO <sub>2</sub> )	26.	45	μg/M³	≤ 80
8.	Particulate Matter PM <sub>10</sub>	45.	77	μg/M³	≤ 100
9.	Particulate Matter PM <sub>2.5</sub>	20.	31	μg/M³	≤ 60
	Carbon Monoxide (CO)	1.4	5	mg/M <sup>3</sup>	≤ 04(1 Hr)

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		TEST C	ERTIFIC	ATE	
	ort No: GESEC/PRO/2018-19/01/250			Report	29/01/2019
Clier	nt Name and Address:			Sampling	21/01/2019
M/s	. Nira BhimaSahakariSakharKarkl	nana Ltd.	Start Da	ate of Analysis	22/01/2019
	najinagar ,Post-Redni,			te of Analysis	28/01/2019
Tal-I	ndapur, Dist-Pune, Pin-413114.		The state of the s	Details	Ambient Air
				Location	Near ETP Area
Sami	alo Collected By			Sampling	12:10
Saiiii	ole Collected By	•	GESEC		
	An	nbient Air	Analysi	s Report	
Sr. No.	Parameter	Res	ult	Unit(s)	NAAQ Standards
1.	Ambient Temperature	32	2	°C	
2.	Dry Bulb Temperature	32	2	°C	
3.	Wet Bulb Temperature	25	5	°C	
4.	Relative Humidity	70	)	% RH	
5.	Sampling Duration	144	10	Min	
6.	Sulphur Dioxide(SO <sub>2</sub> )	9.9	14	μg/M <sup>3</sup>	≤80
7.	Oxides of Nitrogen(NO <sub>2</sub> )	11.	58	μg/M³	≤ 80
8.	Particulate Matter PM <sub>10</sub>	46.2	21	μg/M³	≤ 100
9.	Particulate Matter PM <sub>2.5</sub>	15.4	44	μg/M³	≤ 60
10.	Carbon Monoxide (CO)	1.2	6	mg/M <sup>3</sup>	≤ 04(1 Hr)
Rema		ational Al			
ANAL	All above results are within N YZED BY-	ational Amb	VIROS	uality standards.	AUTHORIZED SIGNATOR
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		Tag Cone	1	₹/	
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43.5

41.7

42.9

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			AND THE PART WAS THE		
		TEST CI	ERTIFIC	ATE	
	ort No: GESEC/PRO/2018-19/01/250	7	Date o	f Report	29/01/2019
	nt Name and Address:		Date o	f Sampling	21/01/2019
M/s. Nira BhimaSahakariSakharKarkhana Ltd. Shahajinagar ,Post-Redni, Tal-Indapur, Dist-Pune, Pin-413114. Sample Collected By		Sample Details  GESEC		Ambient Noise	
		Ambient I	Noise R	eport	
Sr. No.	Location	Result o	dB(A)	Result dB(A) Night	CPCB Standards dB(A)
1.	Near ETP Area	51.4	4	41.7	30(11)
2.	Near Office	52.2	2	42.8	
-					

51.7

52.6

51.4

## Remark-

3.

4.

5.

- 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.

ANALYZED BY-

**Near Main Gate** 

**Near Sugar Godown** 

**Near Guest House Area** 

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55/45

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Repo	ort No: GESEC/PRO/2018-19/01/25	08	Date of Repo	rt	29/01/2019
Clie	nt Name and Address:		Date of Samp		21/01/2019
M/s	. Nira BhimaSahakariSakharKark	hana Ltd.	Start Date of	•	22/01/2019
Shah	najinagar ,Post-Redni,		End Date of A		28/01/2019
Tal-I	ndapur, Dist-Pune, Pin-413114.		Sample Locat		Boiler (40 TPH)
			Sample Detai	ls	Stack
C	1.0 11.1		Time of Samp	ling	1:15
Samı	ole Collected By		GESEC		
	Sour	ce Emission	on Analysis F	Report	
Sr. No.	Parameter	Result	Unit(s)	Limits As Per MPCB Consent	Standard Method
1.	Capacity of Boiler	40	TPH	10x 10x	m m
2.	Type of Fuel	Bagass	e	No say	do su
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	336505.0	08 NM³/Hr		
12.	Suspended Particulate Matter (SPM)	83.2	mg/NM <sup>3</sup>	≤ 150	IS:11255(Part 1)-1985
Rema	rk(s):			2 130	13.11233(Fait 1)-1983
>	All above results are well within N	APCB Limite	IVIRO		
NAL	ZED BY-	1.00	- P	New Control of the Control	ALITHODIZED CLCSUSTON

**AUTHORIZED SIGNATORY-**Plande!

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	TE	ST CERTIFICATE			
	o: GESEC/PRO/2018-19/01/2509	Date of Report		29/01/2019	
	me and Address:	Date of Sampling		21/01/2019	
M/s. Nira BhimaSahakariSakharKarkhana		Start Date of Analysis		22/01/2019	
Ltd.		End Date of Analysis Sample Location Sample Details Time of Sampling		28/01/2019	
	ngar ,Post-Redni,			Boiler (66 TPH)	
Tal-Indap	ur, Dist-Pune, Pin-413114.			Stack	
Cample Ce	He stad B			2:10	
Sample Co	ellected By	GESEC			
	Source Em	ission Analysis R	eport		
Sr.	Danasas		Limits As Per	Standard Method	

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	7. Y-1		
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 <sup>3</sup> /Hr		
12.	Suspended Particulate Matter (SPM)	89.6	mg/NM <sup>3</sup>	≤ 150	IS:11255(Part 1)-1985

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<sup>e</sup> Consultant

Remark(s):

> All above results are well within MPCB Limit CAEE

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		TES	T CERTIFICATE	
	ort No: GESEC/PRO/2018-19/01/2	2510	Date of Report	29/01/2019
	nt Name and Address:		Date of Sampling	21/01/2019
M/s	. Nira BhimaSahakariSakharKa	rkhana Ltd.	Start Date of Analy	ysis 22/01/2019
	najinagar ,Post-Redni,		End Date of Analys	
Tal-I	ndapur, Dist-Pune, Pin-413114		Sample Details	Raw Spent Wash Sample
			Nature of sample	Untreated
Samp	ple Collected By		GESEC	
		Water	<b>Analysis Report</b>	1
Sr. No.	Parameter		Result	Unit(s)
1.	рН		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
ANAL	YZED BY-	EN	ENVIROS	AUTHORIZED SIGNATOR
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		TES	T CERTIFICATE		
	ort No: GESEC/PRO/2018-19/01/2511		Date of Report		29/01/2019
	nt Name and Address:		Date of Sampling	PROPERTY OF THE PROPERTY OF TH	21/01/2019
M/s	. Nira BhimaSahakariSakharKarkhana L	td.	Start Date of Analys	is	22/01/2019
	najinagar ,Post-Redni,		<b>End Date of Analysis</b>	3	28/01/2019
Tal-l	Tal-Indapur, Dist-Pune, Pin-413114.		Sample Details		Bio-Methanated Spent Wash Sample
			Nature of sample		Untreated
Sam	ple Collected By		GESEC		
	W	ater	<b>Analysis Report</b>		
Sr. No.	Parameter		Result		Unit(s)
1.	рН		7.51		er en
2.	EC		31960		μS/m
3.	BOD		10965		mg/lit
4.	COD		50196		mg/lit
5.	Volatile Acids		1102		mg/lit
6.	Alkalinity		23540		
7.	Acidity		1356		
ANAL	YZED BY-		ENVID		
7.	Acidity	SPRINT NO.	23540 1356 ENVIROS		mg/lit mg/lit AUTHORIZED SIG

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GESEC

	ST CERTIFICATE	
Report No: GESEC/PRO/2018-19/01/2512	Date of Report	29/01/2019
Client Name and Address:	Date of Sampling	21/01/2019
M/s. Nira BhimaSahakariSakharKarkhana 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	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 <sub>2</sub> O <sub>5</sub>	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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		TEST CERTIFIC	CATE			
	ort No: GESEC/PRO/2018-19/01/2513	Date of Repo	rt	29/01/2019		
Client Name and Address: M/s. Nira BhimaSahakariSakharKarkhana Ltd. Shahajinagar ,Post-Redni, Tal-Indapur, Dist-Pune, Pin-413114. Sample Collected By		Date of Samp	oling	21/01/2019		
		Start Date of	Analysis	22/01/2019		
		End Date of A	nalysis	28/01/2019		
		Sample Locat	ion	ETP ETP Inlet		
		Sample Detai	ls			
		GESEC				
	Wa	ter Analysis	Report			
Sr. No.	Parameter	Result	Unit(s)	Standard Method		
		Physical Parame	eter			
1.	Total Suspended Solids	570.2	mg/lit	APHA 2540-D		
2.	Total Dissolved Solids	2396.2	mg/lit	APHA 2540-C		

**Chemical Parameter** 

mg/lit

mg/lit

mg/lit

mg/lit

mg/lit

5.8

1603.2

22.7

COD 6523.4 7. Chloride (as CI) 140.2 8. Sulphate (as SO4) OLEN ENVIROR **ANALYZED BY-**Engine PLINE Ltd.

**AUTHORIZED SIGNATORY** jande!

APHA 4500 -H+ Modified Wrinkler's Idometric

Method

APHA 5520 B

**APHA 5220 B** 

APHA 4500 Cl B

APHA 4500So<sub>4</sub> E

#### Terms and conditions

3.

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BOD at 27°C for 3 days

Oil and Grease

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		TEST	CERTIFICATE			
Кер	ort No: GESEC/PRO/2018-19/0:	1/2514	Date of Repor			
Client Name and Address: M/s. Nira Bhima Sahakari Sakhar Karkhana Ltd. Shahajinagar ,Post-Redni, Tal-Indapur, Dist-Pune, Pin-413114.  Sample Collected By			Date of Samp		29/01/2019 21/01/2019 22/01/2019 28/01/2019	
			Start Date of	analysis		
			End Date of A Sample Detail			
			Nature of sam		ETP	
				pie	ETP Outlet	
			GESEC	Working		
Sr.		Water A	Inalysis Repo	ort		
No.	Parameter	Result	Unit(s) Limits		Standard Method	
		Physic	cal Parameter			
1.	Total Suspended Solid	47.2	mg/lit	<100	ABUL	
2.	Total Dissolved Solids	562.3			APHA 2540-D	
			mg/lit	<2100	APHA 2540-C	
3.						
	рН	7.1		5.5-9.0	APHA 4500 −H <sup>+</sup>	
4.	BOD at 27°C for 3 days	29.0	mg/lit	<100	Modified Wrinkler`sIdometr	
5.	Oil and grease	7.2	mg/lit	<10	Method	
6.	COD	106.2			APHA 5520 B	
7.	Chloride (as CI)	20.44	mg/lit mg/lit	<250	APHA 5220 B	
8.	Sulphate (as SO4)	90.2	mg/lit	600	APHA 4500 Cl <sup></sup> B	
ema	rks: All above results are within	MPCB Limits	111g/IIC	1000	APHA 4500So₄E	
NALY	ZED BY-					
	Thelas.	SEEN ENI	/IRQCARTE		AUTHORIZED SIGNATOR	

- 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.
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- 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
- 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

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Pon	ort No. CECEC/DDO/2010 : - 1- 1-	TES	T CERTI				
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	Date of Sampling			/01/2019	
		Sample Details			Press Mud Sample		
Sam	ple Collected By		GESEC				
		Press M	ud Sam	ple Report			
Sr. No.	Location	Resi		Unit		andard /alue	The Factories Act 1948, standards
1.	pH at 25°C	6.1			Not A	applicable	IS:10158- 1982(RA:2009)-7, page no 18
2.	Moisture	73.	4	%	Not A	pplicable	IS:9235- 1979(RA:2009),4.1 page no.5
3.	Total Organic Carbon	30.	7	%	Not A	pplicable	Fertilizer Control Order, 1985, page no. 144-A
4.	Total organic Matter	45.6	6	%	Not A	pplicable	Fertilizer Control Order, 1985, page no. 144-A
5	Total Nitrogen as N	1.6		%	Not A	pplicable	IS:10158- 1982(RA:2009)-5, page no.8
6.	Total Phosphate as P <sub>2</sub> O <sub>5</sub>	1.33	3	%	Not A	oplicable	IS:10158- 1982(RA:2009)- 10.1A, page no.19
7.	Total Potassium	3.1		%	Not Ap	pplicable	IS:10158- 1982(RA:2009)-9, page no.18
8.	C:N Ratio	19.1			Not Ap	plicable	Fertilizer Control Order, 1985, page no. 144-B
ANAL	Chalae	Bulling GARA	PLINE	7 Lid. 3 3455		\	andel

### Terms and conditions

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& Consultar

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