

Survey No-1405/06, Mayuri Residency, Shop No-16, 2nd Floor, Sanaswadi, Tal-Shirur, Pune-412208. GREEN ENVIROSAFE Mob.: 8421365421 / 7028089005 | E-mail:gesec12@gmail.com | www.greenenvirosafe.co.in

Recognised by Ministry of Environment, Forest & Climate Change (MoEF) Govt. of India and ISO 9001:2015, ISO 45001: 2018 Certified Company

	TEST C	ERTIFIC	ATE	
Repo	ort No: GESEC/PRO/2021-22/12/1070	Date of	Report	28/12/2021
Clier	nt Name and Address:	Date of	Sampling	23/12/2021
M/s	. Nira Bhima Sahakari Sakhar Karkhana Ltd.	Start Da	ite of Analysis	24/12/2021
Shah	najinagar ,Post-Redni,	End Dat	e of Analysis	28/12/2021
Tal-I	ndapur, Dist-Pune, Pin-413114.	Sample	Details	Ambient Air
		Sample	Location	Near Guest House
		Time of	Sampling	10:30
Samı	ple Collected By	GESEC		
	Ambient Air	Analysi	s Report	
Sr. No.	Parameter Res	ult	Unit(s)	NAAQ Standards
1.	Ambient Temperature 3	0	°C	
2.	Dry Bulb Temperature 30)	°C	
3.	Wet Bulb Temperature 23	3	°C	
4.	Relative Humidity 58	3	% RH	
5.	Sampling Duration 14	40	Min	
6.	Sulphur Dioxide(SO ₂) 28.	63	μg/M ³	≤ 80

39.62

39.12

20.14

0.35

Remark-

7.

8.

9.

10.

All above results are within National Ambient Air Quality standards.

ANALYZED BY-

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≤80

≤ 100

≤ 60

≤ 04(1 Hr)

Wildo Engineers

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 $\mu g/M^3$

 $\mu g/M^3$

 $\mu g/M^3$

mg/M³

Terms and conditions

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Oxides of Nitrogen(NO₂)

Particulate Matter PM₁₀

Particulate Matter PM_{2.5}

Carbon Monoxide (CO)

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28/12/2021 23/12/2021 24/12/2021 28/12/2021 Ambient Air Near Main Gate 10:50
24/12/2021 28/12/2021 Ambient Air Near Main Gate 10:50
28/12/2021 Ambient Air Near Main Gate 10:50
Ambient Air Near Main Gate 10:50
Near Main Gate 10:50
10:50
NAAQ Standards
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2
PAR STATE OF THE PARTY OF THE P
≤ 80
≤ 80
≤ 100
≤ 60
≤ 04(1 Hr)

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28/12/2021 23/12/2021 24/12/2021 28/12/2021 Ambient Air Near ETP Area 11:10
24/12/2021 28/12/2021 Ambient Air Near ETP Area 11:10
28/12/2021 Ambient Air Near ETP Area 11:10
Ambient Air Near ETP Area 11:10
Near ETP Area 11:10
11:10
NAAQ Standards
NAAQ Standards
NAAQ Standards
≤ 80
≤ 80
≤ 100
≤ 60
≤ 04(1 Hr)

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TEST CI	RTIFICATE	χ.
Report No: GESEC/PRO/2021-22/12/1073	Date of Report	28/12/2021
Client Name and Address:	Date of Sampling	23/12/2021
M/s. Nira Bhima Sahakari Sakhar Karkhana Ltd. Shahajinagar ,Post-Redni, Tal-Indapur, Dist-Pune, Pin-413114.	Sample Details	Ambient Noise
Sample Collected By	GESEC	

Sr. No.	Location	Result dB(A) Day	Result dB(A) Night	CPCB Standards dB(A)	
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	, assessment (1)	
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.

ANALYZED BY-

AUTHORIZED SIGNATORY

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		TEST CI	ERTIFICATE			
Repo	ort No: GESEC/PRO/2021-22/12/107	4	Date of Report	t	28/12/2021	
Clien	nt Name and Address:		Date of Sampling		23/12/2021	
M/s.	Nira Bhima Sahakari Sakhar Kar	khana Ltd.	Start Date of A	Analysis	24/12/2021	
	ajinagar ,Post-Redni,	End Date of Ar		28/12/2021		
Tal-Ir	ndapur, Dist-Pune, Pin-413114.	Sample Location		Boiler (40 TPH)		
			Sample Details		Stack	
Samn	ole Collected By		Time of Sampl	ing	13:00	
Janip		re Emissic	on Analysis R	enort		
	500.	CC LITTISSIC	711 Analysis K	Limits As Per	Standard Method	
Sr. No.	Parameter	Result	Unit(s)	MPCB Consent	Standard Method	
1.	Capacity of Boiler	40	TPH	_	-	
2.	Type of Fuel	Bagasse Biogas		<u>-</u>	-	
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	258189.3	18 NM³/Hr			
12.	Suspended Particulate Matter (SPM)	80.5	mg/NM ³	≤ 150	IS:11255(Part 1)-198	
>	ark(s): All above results are well within N	MPCB Limit.				
ANAL	Sher		Finging Consultant	POSA	AUTHORIZED SIGNATOR	

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Repo	rt No: GESEC/PRO/2021-22/12/1	075	Date of Report		28/12/2021	
Towns and the	nt Name and Address:	75.1750 TeVI	Date of Sampling	23/12/2021		
M/s. Nira Bhima Sahakari Sakhar Karkhana Ltd. Shahajinagar ,Post-Redni, Tal-Indapur, Dist-Pune, Pin-413114.			Start Date of Ana		24/12/2021	
			End Date of Anal		28/12/2021	
			Sample Location		Boiler (66 TPH)	
			Sample Details		Stack	
			Time of Sampling		13:45	
Samp	ole Collected By		GESEC			
	So	urce Emi	ssion Analysis I	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	3 NM³/Hr			
12.	Suspended Particulate Matter (SPM)	86.9	mg/NM ³	≤ 150	IS:11255(Part 1)-1985	
Rema	ark(s):		THE STATE OF THE S		, , , , , , , , ,	
Stanford Transport	All above results are well within	MPCB Lim	nit			
ANAL	YZED BY-		WEN ENVIRON		AUTHORIZED SIGNATOR	

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		T CERTIFICATE	
	lo: GESEC/PRO/2021-22/12/1076	Date of Report	28/12/2021
	ame and Address:	Date of Sampling	23/12/2021
M/s. Nira Bhima Sahakari Sakhar Karkhana Ltd.		Start Date of Analysis	24/12/2021
		End Date of Analysis	28/12/2021
	agar ,Post-Redni,	Sample Details	Raw Spent Wash Sample
Tal-Inda	pur, Dist-Pune, Pin-413114.	Nature of sample	Untreated
Sample (Collected By	Green Envirosafe Engine	eers & Consultant Pvt. Ltd, Pune
	Water	Analysis Report	
Sr. No.	Parameter	Result	Unit(s)
1.	рН	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	
ANALYZE	D BY-		AUTHORIZED SIGNATORY
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	TES	ST CERTIFICATE	
Report N	lo: GESEC/PRO/2021-22/12/1077	Date of Report	28/12/2021
Client N	ame and Address:	Date of Sampling	23/12/2021
M/s. Nii	ra Bhima Sahakari Sakhar	Start Date of Analys	sis 24/12/2021
Karkhana Ltd. Shahajinagar 'Post-Redni, Tal-Indapur, Dist-Pune, Pin-413114.		End Date of Analysi	is 28/12/2021
		Sample Details	Bio Methanated Spent Wash Sample
- Company		Nature of sample	Untreated
Sample (Collected By	Green Envirosafe En	ngineers & Consultant Pvt. Ltd, Pune
	Wate	r Analysis Report	
Sr. No.	Parameter	Result	Unit(s)
1.	рН	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
ANALYZE	BY-		AUTHORIZED SIGNATORY
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	TEST	CERTIFIC	ATE			
Repo	ort No: GESEC/PRO/2021-22/12/1078	Date of F	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.			Sampling		23/12/2021 Compost Sample	
			Details	Comp		
Sam	ple Collected By	Green En	virosafe Engir	neers & Consultant P	vt. Ltd, Pune	
	Compost	A COLUMN TO THE REAL PROPERTY OF THE PERTY O	A STATE OF THE PARTY OF THE PAR			
Sr. No.	Location R	esult	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	13.8	%	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.		3.26	-	Not Applicable	Fertilizer Control Order, 1985, page no. 144-B	
ANAL	YZED BY-	PUNI	100 PKE 111. 74 CO	AUTHO	RIZED SIGNATOR	

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Report N	lo: GESEC/PRO/2021-22/12/1079	Date of Report		28/12/2021
	ame and Address:	Date of Sampling		23/12/2021
	ra Bhima Sahakari Sakhar Karkhana	Start Date of A	-	24/12/2021
Ltd. Shahajinagar ,Post-Redni,		End Date of An		28/12/2021
		Sample Details		ETP Inlet
	pur, Dist-Pune, Pin-413114.	Nature of samp	ole	Liquid
Sample (Collected By	Green Envirosa	fe Engineers & C	onsultant Pvt. Ltd, Pune
	Wat	ter Analysis R	eport	
Sr. No.	Parameter	Result	Unit(s)	Standard Method
		Physical Paramet	er	
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 Parame	ter	
3.	рН	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 CI)	138.6	mg/lit	IS 3025 (Part 39), 2019
8.	Sulphate (as SO4)	143.2	mg/lit	IS 3025 (Part 24), 2019
ANALYZEI	he?	B GREEF.	UNE PT CONSUMBRICAL	AUTHORIZED SIGNATOR

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_			TIFICATE		
Report No: GESEC/PRO/2021-22/12/1080		Date of	Report		28/12/2021
Client Name and Address: M/s. Nira Bhima Sahakari Sakhar Karkhana Ltd.		Date of	Sampling		23/12/2021
		_	te of Analys		24/12/2021
			e of Analysis		28/12/2021
	najinagar ,Post-Redni,	Sample	The second second		ETP Outlet
Tal-I	ndapur, Dist-Pune, Pin-413114.	Nature o	of sample		Liquid
Sam	ole Collected By	Green Er	nvirosafe Eng	gineers & Cor	nsultant Pvt. Ltd, Pune
	Wa	ter Analy	ysis Repor	t	
Sr. No.	Parameter	Result	Unit(s)	Limits	Standard Method
		Physical Pa	arameter		
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 P	arameter		
3.	рН	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
Rem	arks: All above results are within MPCB Lim	its			
ANAL	Shel		PUNE PUNE	W. Ltd. 33450	AUTHORIZED SIGNATOR

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			CERT	IFICATE		
Report No: GESEC/PRO/2021-22/12/1081			Date of Report		rt	28/12/2021
Client Name and Address:			Date of Sampling		ling	23/12/2021
M/s. Nira Bhima Sahakari Sakhar Karkhana Ltd. Shahajinagar ,Post-Redni, Tal-Indapur, Dist-Pune, Pin-413114.			Sample Details		ils	Press Mud Sample
Sample Collected By			Green Envirosafe Engineers & Consultant Pvt. Ltd, Pune			
		Press Mud	Sam	ple Re	port	
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	2	%	Not Applicable	IS:10158-1982(RA:2009)-5, page no.8
6.	Total Phosphate as P ₂ O ₅	1.36	5	%	Not Applicable	IS:10158-1982(RA:2009)-10.1A page no.19
7.	Total Potassium	2.9	illan.	%	Not Applicable	IS:10158-1982(RA:2009)-9, page no.18
8.	C:N Ratio	19.4	7		Not Applicable	Fertilizer Control Order, 1985, page no. 144-B
ANAL	YZED BY-					AUTHORIZED SIGNATORY
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