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TEST (CERTIFICATE	
Report No: GESEC/PRO/2021-22/11/251	Date of Report	27/11/2021
Client Name and Address:	Date of Sampling	22/11/2021
M/s. NiraBhimaSahakariSakharKarkhana Ltd.	Start Date of Analysis	23/11/2021
Shahajinagar ,Post-Redni,	End Date of Analysis	27/11/2021
Tal-Indapur, Dist-Pune, Pin-413114.	Sample Details	Ambient Air
Tal-Indapur, Dist-Pulle, Pill-413114.	Sample Location	Near Guest House
	Time of Sampling	10:10
Sample Collected By	GESEC	

	Ar	mbient AirAnalysi	s Report	
Sr. No.	Parameter	Result	Unit(s)	NAAQ Standards
1.	Ambient Temperature	32	°C	
2.	Dry Bulb Temperature	32	°C	
3.	Wet Bulb Temperature	29	°C	
4.	Relative Humidity	66	% RH	
5.	Sampling Duration	1440	Min	
6.	Sulphur Dioxide(SO ₂)	31.55	μg/M³	≤ 80
7.	Oxides of Nitrogen(NO ₂)	40.25	μg/M³	≤ 80
8.	Particulate Matter PM ₁₀	41.20	μg/M³	≤ 100
9.	Particulate Matter PM _{2,5}	22.36	μg/M³	≤ 60
10.	Carbon Monoxide (CO)	0.41	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/2021-22/11/252	Date of Report	27/11/2021
Client Name and Address: M/s. NiraBhimaSahakariSakharKarkhana Ltd. Shahajinagar ,Post-Redni,	Date of Sampling	22/11/2021
	Start Date of Analysis	23/11/2021
	End Date of Analysis	27/11/2021
Tal-Indapur, Dist-Pune, Pin-413114.	Sample Details	Ambient Air
Tal-mapar, Dist-rane, Fin-413114.	Sample Location	Near Main Gate
	Time of Sampling	10:40
Sample Collected By	GESEC	

Ambient AirAnalysis Report

Sr. No.	Parameter	Result	Unit(s)	NAAQ Standards
1.	Ambient Temperature	32	°C	
2.	Dry Bulb Temperature	32	°C	
3.	Wet Bulb Temperature	29	°C	
4.	Relative Humidity	66	% RH	
5.	Sampling Duration	1440	Min	
6.	Sulphur Dioxide(SO ₂)	26.90	μg/M ³	≤ 80
7.	Oxides of Nitrogen(NO ₂)	24.21	μg/M³	≤ 80
8.	Particulate Matter PM ₁₀	43.66	μg/M³	≤ 100
9.	Particulate Matter PM _{2.5}	20.41	μg/M³	≤ 60
10.	Carbon Monoxide (CO)	1.33	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/2021-22/11/253	Date of Report	27/11/2021
Client Name and Address: M/s. NiraBhimaSahakariSakharKarkhana Ltd. Shahajinagar ,Post-Redni,	Date of Sampling	22/11/2021
	Start Date of Analysis	23/11/2021
	End Date of Analysis	27/11/2021
Tal-Indapur, Dist-Pune, Pin-413114.	Sample Details	Ambient Air
Tal-mapar, Dist-rune, rin-413114.	Sample Location	Near ETP Area
	Time of Sampling	11:15
Sample Collected By	GESEC	

	Aı	mbient AirAnalysi	s Report	
Sr. No.	Parameter	Result	Unit(s)	NAAQ Standards
1.	Ambient Temperature	32	°C	
2.	Dry Bulb Temperature	32	°C	
3.	Wet Bulb Temperature	29	°C	
4.	Relative Humidity	66	% RH	
5.	Sampling Duration	1440	Min	
6.	Sulphur Dioxide(SO ₂)	4.2	μg/M³	≤ 80
7.	Oxides of Nitrogen(NO ₂)	21.5	μg/M³	≤ 80
8.	Particulate Matter PM ₁₀	42.9	μg/M³	≤ 100
9.	Particulate Matter PM _{2.5}	20.6	μg/M³	≤ 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 C	ERTIFICATE	
Report No: GESEC/PRO/2021-22/11/254	Date of Report	27/11/2021
Client Name and Address:	Date of Sampling	22/11/2021
M/s. NiraBhimaSahakariSakharKarkhana Ltd. Shahajinagar ,Post-Redni, Tal-Indapur, Dist-Pune, Pin-413114.	Sample Details	Ambient Noise
Sample Collected By	GESEC	

		Ambient Noise R	leport			
Sr. No.	Location	Result dB(A) Day	Result dB(A) Night	CPCB Standards dB(A)		
1.	Near ETP Area	53.2	43.1			
2.	Near Office	52.4	43.2	55/45		
3.	Near Main Gate	51.4	42.1			
4.	Near Sugar Godown	52.8	43.2			
5.	Near Guest House Area	50.9	42.4			

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 (CERTIFICATE	
Report No: GESEC/PRO/2021-22/11/255	Date of Report	27/11/2021
Client Name and Address: M/s. NiraBhimaSahakariSakharKarkhana Ltd. Shahajinagar ,Post-Redni,	Date of Sampling	22/11/2021
	Start Date of Analysis	23/11/2021
	End Date of Analysis	27/11/2021
Tal-Indapur, Dist-Pune, Pin-413114.	Sample Location	Boiler (40 TPH)
Tal-illuapur, Distri une, Fin 413114.	Sample Details	Stack
	Time of Sampling	13:15
Sample Collected By	GESEC	

	Sour	ce Emission /	Analysis K		
Sr. No.	Parameter	Result	Unit(s)	Limits As Per MPCB Consent	Standard Method
1.	Capacity of Boiler	40	TPH		wa me
2.	Type of Fuel	Bagasse/ Biogas	-	an va	
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	114	°C		
8.	Differential Pressure	6.9	mmWG		
9.	Velocity	9.66	M/s		
10.	Dimensions of Stack	3.5	Mtr.		
11.	Gas Volume	265687.3	NM ³ /Hr		
12.	Suspended Particulate Matter (SPM)	82.6	mg/NM ³	≤ 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/2021-22/11/256	Date of Report	27/11/2021
Client Name and Address: M/s. NiraBhimaSahakariSakharKarkhana Ltd.	Date of Sampling	22/11/2021
	Start Date of Analysis	23/11/2021
	End Date of Analysis	27/11/2021
Shahajinagar ,Post-Redni,	Sample Location	Boiler (66 TPH)
	Sample Details	Stack
Tal-Indapur, Dist-Pune, Pin-413114.	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	and also		
6.	Sampling Duration	30	Min.		
7.	Flue Gas Temperature	113	°C		
8.	Differential Pressure	9.8	mmWG		
9.	Velocity	11.6	M/s		1.25
10.	Dimensions of Stack	3.6	Mtr.	,	
11.	Gas Volume	331472.3	NM ³ /Hr		
12.	Suspended Particulate Matter (SPM)	85.6	mg/NM³	≤ 150	IS:11255(Part 1)-1985

Remark(s):

All above results are well within MPCB Limit

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	TE	ST CERTIFICATE		
Repo	rt No: GESEC/PRO/2021-22/11/257	Date of Report	27/11/2021	
Client Name and Address:		Date of Sampling	22/11/2021	
	NiraBhimaSahakariSakharKarkhana	Start Date of Analys	is 23/11/2021	
Ltd.		End Date of Analysi	1	
	ajinagar ,Post-Redni,	Sample Details	Raw Spent Wash Sample	
	ndapur, Dist-Pune, Pin-413114.	Nature of sample	Untreated	
	ole Collected By	GESEC		
		er Analysis Report		
Sr.	Parameter	Result	Unit(s)	
1.	pH	3.9		
2.	EC	13536	μS/m	
3.	BOD	46966	mg/lit	
4.	COD	84757	mg/lit	
5.	Total Dissolved Solids	35443	mg/lit	
6.	Total Suspended Solids	49772	mg/lit	
7.	Total Solids	85215		
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	TES	ST CERTIFICATE	
Repo	ort No: GESEC/PRO/2021-22/11/258	Date of Report	27/11/2021
Client Name and Address:		Date of Sampling	22/11/2021
	NiraBhimaSahakariSakharKarkhana	Start Date of Analys	sis 23/11/2021
Ltd. Shahajinagar ,Post-Redni, Tal-Indapur, Dist-Pune, Pin-413114.		End Date of Analysi	s 27/11/2021
		Sample Details	Bio MethanatedSpent Wash Sample
		Nature of sample	Untreated
Sam	ple Collected By	GESEC	
	Wate	er Analysis Report	
Sr. No	Parameter	Result	Unit(s)
1.	pH	7.3	
2.	EC	20938	μS/m
3.	BOD	11263	mg/lit
4.	COD	29696	mg/lit
5.	Volatile Acids	3510	mg/lit
6.	Alkalinity	22844	mg/lit
7.	Acidity	899	mg/lit
8.	Suspended Solids	8943	mg/lit
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		TEST	CERTIFI	CATE				
Repor	rt No: GESEC/PRO/2021-22/11/259		Date of	Report		27/1	.1/2021	
Client Name and Address:			Date of	Date of Sampling 22,		22/1	11/2021	
M/s. NiraBhimaSahakariSakharKarkhana Ltd. Shahajinagar ,Post-Redni, Tal-Indapur, Dist-Pune, Pin-413114.		Sample Details			Compost Sample			
Samp	le Collected By		GESEC					
		Compost	Sample	e Report				
Sr. No.	Location	Result	:	Unit		andard Value	The Factories Act 1948, standards	
1.	pH at 25°C	7.2			Not	Applicable	IS:10158- 1982(RA:2009)-7, page no 18	
2.	Moisture	30.2		%	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	46.0		%	Not	Applicable	Fertilizer Control Order, 1985, page no. 144-A	
5	Total Nitrogen as N	2.1		%	Not	Applicable	IS:10158- 1982(RA:2009)-5 page no.8	
6.	Total Phosphate as P ₂ O ₅	3.3		%	Not	Applicable	IS:10158- 1982(RA:2009)- 10.1A, page no.1	
7.	Total Potassium	2.85		%	Not	Applicable	IS:10158- 1982(RA:2009)-9 page no.18	
8.	C:N Ratio	13.7	,		Not	Applicable	Fertilizer Contro Order, 1985, pag no. 144-B	

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		TEST CERTIFIC	ATE						
Repo	rt No: GESEC/PRO/2021-22/11/260	Date of Repor	t	27/11/2021					
Client Name and Address: M/s. NiraBhimaSahakariSakharKarkhana Ltd. Shahajinagar ,Post-Redni, Tal-Indapur, Dist-Pune, Pin-413114.		Date of Sampling		22/11/2021					
		Start Date of Analysis End Date of Analysis Sample Location		23/11/2021 27/11/2021 ETP					
						Sample Detai	ls	ETP Inlet	
						Samp	ole Collected By	GESEC	
			W	ater Analysis	Report				
Sr. No.	Parameter	Result	Unit(s)	Standard Method					
		Physical Parame	eter						
1.	Total Suspended Solids	539	mg/lit	APHA 2540-D					
2.	Total Dissolved Solids	2505.6	mg/lit	APHA 2540-C					
	and second second	Chemical Param	eter						
3.	рН	5.5	She she	APHA 4500 -H ⁺					
4.	BOD at 27°C for 3 days	1536.0	mg/lit	Modified Wrinkler`s Idometric Method					
5.	Oil and Grease	25.4	mg/lit	APHA 5520 B					
6.	COD	3369.0	mg/lit	APHA 5220 B					
7.	Chloride (as Cl)	140.2	mg/lit	APHA 5220 B					
8.	Sulphate (as SO4)	146.3	mg/lit	APHA 5220 B					
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	TEST CERTIFICATE	
Report No: GESEC/PRO/2021-22/11/261	Date of Report	27/11/2021
Client Name and Address:	Date of Sampling	22/11/2021
M/s. NiraBhimaSahakariSakharKarkhana Ltd. Shahajinagar ,Post-Redni, Tal-Indapur, Dist-Pune, Pin-413114.	Start Date of Analysis	23/11/2021
	End Date of Analysis	27/11/2021
	Sample Details	ETP
	Nature of sample	ETP Outlet
Sample Collected By	GESEC	

		Water An	alysis Repor	rt	
Sr. No.	Parameter	Result	Unit(s)	Limits	Standard Method
		Physica	al Parameter		
1.	Total Suspended Solid	44.2	mg/lit	<100	APHA 2540-D
2.	Total Dissolved Solids	516.3	mg/lit	<2100	APHA 2540-C
		Chemic	al Parameter		
3.	рН	7.7		5.5-9.0	APHA 4500 −H ⁺
4.	BOD at 27°C for 3 days	29.6	mg/lit	<100	Modified Wrinkler`s Idometric Method
5.	Oil and grease	7.4	mg/lit	<10	APHA 5520 B
6.	COD	75.2	mg/lit	<250	APHA 5220 B
7.	Chloride (as Cl)	18.4	mg/lit	600	APHA 5220 B
8.	Sulphate (as SO4)	86.2	mg/lit	1000	APHA 5220 B

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TEST	CERTIFICATE	
Report No: GESEC/PRO/2021-22/11/262	Date of Report	27/11/2021
Client Name and Address:	Date of Sampling	22/11/2021
M/s. NiraBhimaSahakariSakharKarkhana Ltd. Shahajinagar ,Post-Redni,	Sample Details	Press Mud Sample
Tal-Indapur, Dist-Pune, Pin-413114.		
Sample Collected By	GESEC	

Sr. No.	Location	Result	Unit	Standard Value	The Factories Act 1948, standards
1.	pH at 25°C	7.02		Not Applicable	IS:10158- 1982(RA:2009)-7, page no 18
2.	Moisture	68.6	%	Not Applicable	IS:9235- 1979(RA:2009),4.1 page no.5
3.	Total Organic Carbon	30.8	%	Not Applicable	Fertilizer Control Order, 1985, page no. 144-A
4.	Total organic Matter	43.6	%	Not Applicable	Fertilizer Control Order, 1985, page no. 144-A
5	Total Nitrogen as N	1.44	%	Not Applicable	IS:10158- 1982(RA:2009)-5, page no.8
6.	Total Phosphate as P ₂ O ₅	1.291	%	Not Applicable	IS:10158- 1982(RA:2009)- 10.1A, page no.19
7.	Total Potassium	2.7	%	Not Applicable	IS:10158- 1982(RA:2009)-9, page no.18
8.	C:N Ratio	21.3		Not Applicable	Fertilizer Control Order, 1985, page no. 144-B

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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.

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.