



AKANKSHA ANALYTICAL & RESEARCH LAB

- Recognized by Ministry of Environment Forest and Climate Change (MoEFCC), New Delhi
- Accredited by "NABL" as per ISO/IEC 17025:2005
- Authorized by "AGMARK"
- ISO 9001:2015, OHSAS 18001:2007 Certified Organization

ANALYSIS REPORTS FOR AMBIENT AIR QUALITY MONITORING.

NAME OF COMPANY: M/s. Bhima Sahankar Sahakari Sakhar Karkhana Ltd. Dattatraynagar, Pargaon, Village-Awasari Bk., Tal. - Ambegaon, Dist. - Pune-412 406	TR NO	AL/TR/AM/52-970/19-20	
	DATE	23/12/2019	
	INWARD NO.	AL/6-492/01/19-20	
SAMPLE :-	COLLECTED BY	SAMPLE REF.	RECEIVED ON :
Ambient Air	AARL	Dnyaneshwar Raghunath Dhobale (East)	14/12/2019.

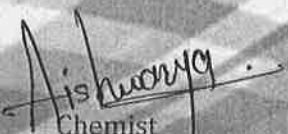
Sr. No.	Parameter	Unit	RESULT	Limits Max.
1.	Time duration	08 hrs.		
2.	Ambient Temperature	°C	29.1	---
3.	Sulphur Dioxide (SO ₂)	µg/m ³	6.42	80
4.	Oxides of Nitrogen (NO _x)	µg/m ³	8.68	80
5.	Particulate matter (PM ₁₀)	µg/m ³	50.6	100
6.	Particulate matter (PM _{2.5})	µg/m ³	15.4	60
7.	Ozone (O ₃)	µg/m ³	17.7	180
8.	Lead (Pb)	µg/m ³	Absent	1.0
9.	Carbon Monoxide (CO)	mg/m ³	0.48	04
10.	Ammonia as (NH ₃)	µg/m ³	Absent	400
11.	Benzene (C ₆ H ₆)	µg/m ³	Absent	05
12.	Benzo (a)Pyrene (BaP)	ng/m ³	BDL	01
13.	Arsenic (As)	ng/m ³	Absent	06
14.	Nickel (Ni)	ng/m ³	Absent	20

REMARKS / OBSERVATIONS:

All above results are within limits (NAAQS) National Ambient Air Quality Standards 2009.
BDL = Below Detectable Limit

For Akanksha Analytical & Research Lab


Authorized Signatory


Chemist



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ANALYSIS REPORTS FOR AMBIENT AIR QUALITY MONITORING

NAME OF COMPANY: M/s. Bhima Sahankar Sahakari Sakhar Karkhana Ltd. Dattatraynagar, Pargaon, Village-Awasari Bk., Tal. - Ambegaon, Dist. - Pune-412 406		TR NO	AL/TR/AM/52-971/19-20
		DATE	23/12/2019
		INWARD NO.	AL/6-492/02/19-20
SAMPLE :-	COLLECTED BY	SAMPLE REF.	RECEIVED ON :
Ambient Air	AARL	Sandeep Popat Dhobale (North)	14/12/2019

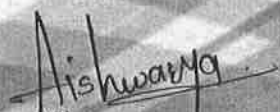
Sr. No.	Parameter	Unit	RESULT	Limits Max.
1.	Time duration	08 hrs.		
2.	Ambient Temperature	°C	29.5	---
3.	Sulphur Dioxide (SO ₂)	µg/m ³	7.74	80
4.	Oxides of Nitrogen (NO _x)	µg/m ³	6.68	80
5.	Particulate matter (PM ₁₀)	µg/m ³	52.4	100
6.	Particulate matter (PM _{2.5})	µg/m ³	14.9	60
7.	Ozone (O ₃)	µg/m ³	17.8	180
8.	Lead (Pb)	µg/m ³	Absent	1.0
9.	Carbon Monoxide (CO)	mg/m ³	0.50	04
10.	Ammonia as (NH ₃)	µg/m ³	Absent	400
11.	Benzene (C ₆ H ₆)	µg/m ³	Absent	05
12.	Benzo (a)Pyrene (BaP)	ng/m ³	BDL	01
13.	Arsenic (As)	ng/m ³	Absent	06
14.	Nickel (Ni)	ng/m ³	Absent	20

REMARKS / OBSERVATIONS:

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NAME OF COMPANY: M/s. Bhima Sahankar Sahakari Sakhar Karkhana Ltd. Dattatraynagar, Pargaon, Village-Awasari Bk., Tal. - Ambegaon, Dist. - Pune-412 406		TR NO AL/TR/AM/52-972/19-20	
		DATE 23/12/2019	
		INWARD NO. AL/6-492/03/19-20	
SAMPLE :-	COLLECTED BY	SAMPLE REF.	RECEIVED ON :
Ambient Air	AARL	Rama Nivrutti Dhobale (West)	14/12/2019

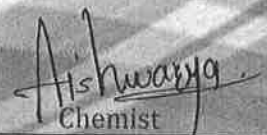
Sr. No.	Parameter	Unit	RESULT	Limits Max.
1.	Time duration	08 hrs.		
2.	Ambient Temperature	°C	29.7	---
3.	Sulphur Dioxide (SO ₂)	µg/m ³	09.1	80
4.	Oxides of Nitrogen (NO _x)	µg/m ³	9.80	80
5.	Particulate matter (PM ₁₀)	µg/m ³	52.8	100
6.	Particulate matter (PM _{2.5})	µg/m ³	14.3	60
7.	Ozone (O ₃)	µg/m ³	18.4	180
8.	Lead (Pb)	µg/m ³	Absent	1.0
9.	Carbon Monoxide (CO)	mg/m ³	0.52	04
10.	Ammonia as (NH ₃)	µg/m ³	Absent	400
11.	Benzene (C ₆ H ₆)	µg/m ³	Absent	05
12.	Benzo (a)Pyrene (BaP)	ng/m ³	BDL	01
13.	Arsenic (As)	ng/m ³	Absent	06
14.	Nickel (Ni)	ng/m ³	Absent	20

REMARKS / OBSERVATIONS:

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BDL = Below Detectable Limit

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NAME OF COMPANY: M/s. Bhima Sahankar Sahakari Sakhar Karkhana Ltd. Dattatraynagar, Pargaon, Village-Awasari Bk., Tal. - Ambegaon, Dist. - Pune-412 406	TR NO	AL/TR/AM/52-973/19-20	
	DATE	23/12/2019	
	INWARD NO.	AL/6-492/04/19-20	
SAMPLE :-	COLLECTED BY	SAMPLE REF.	RECEIVED ON :
Ambient Air	AARL	Maruti Vaidya , Vaidyawadi phata (South)	14/12/2019

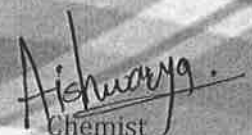
Sr. No.	Parameter	Unit	RESULT	Limits Max.
1.	Time duration	08 hrs.		
2.	Ambient Temperature	°C	29.9	---
3.	Sulphur Dioxide (SO ₂)	µg/m ³	06.52	80
4.	Oxides of Nitrogen (NO _x)	µg/m ³	08.48	80
5.	Particulate matter (PM ₁₀)	µg/m ³	54.60	100
6.	Particulate matter (PM _{2.5})	µg/m ³	11.41	60
7.	Ozone (O ₃)	µg/m ³	17.75	180
8.	Lead (Pb)	µg/m ³	Absent	1.0
9.	Carbon Monoxide (CO)	mg/m ³	00.56	04
10.	Ammonia as (NH ₃)	µg/m ³	Absent	400
11.	Benzene (C ₆ H ₆)	µg/m ³	Absent	05
12.	Benzo (a)Pyrene (BaP)	ng/m ³	BDL	01
13.	Arsenic (As)	ng/m ³	Absent	06
14.	Nickel (Ni)	ng/m ³	Absent	20

REMARKS / OBSERVATIONS:

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NAME OF COMPANY: M/s. Bhima Sahankar Sahakari Sakhar Karkhana Ltd. Dattatraynagar, Pargaon, Village-Awasari Bk., Tal. - Ambegaon, Dist. - Pune-412 406		TR NO AL/TR/AM/52-974/19-20	
		DATE 23/12/2019	
		INWARD NO. AL/6-492/05/19-20	
SAMPLE :-	COLLECTED BY	SAMPLE REF.	RECEIVED ON :
Ambient Air	AARL	Factory Main Gate	14/12/2019

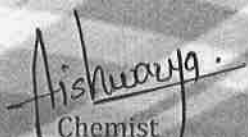
Sr. No.	Parameter	Unit	RESULT	Limits Max.
1.	Time duration	08 hrs.		
2.	Ambient Temperature	°C	29.9	---
3.	Sulphur Dioxide (SO ₂)	µg/m ³	06.58	80
4.	Oxides of Nitrogen (NO _x)	µg/m ³	08.79	80
5.	Particulate matter (PM ₁₀)	µg/m ³	57.90	100
6.	Particulate matter (PM _{2.5})	µg/m ³	14.71	60
7.	Ozone (O ₃)	µg/m ³	17.68	180
8.	Lead (Pb)	µg/m ³	Absent	1.0
9.	Carbon Monoxide (CO)	mg/m ³	00.54	04
10.	Ammonia as (NH ₃)	µg/m ³	Absent	400
11.	Benzene (C ₆ H ₆)	µg/m ³	Absent	05
12.	Benzo (a)Pyrene (BaP)	ng/m ³	BDL	01
13.	Arsenic (As)	ng/m ³	Absent	06
14.	Nickel (Ni)	ng/m ³	Absent	20

REMARKS / OBSERVATIONS:

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BDL = Below Detectable Limit

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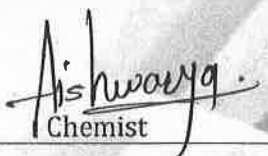
SOURCE EMISSION MONITORING REPORT			
Sample Report No.	AL/TR/AM/52-977/19-20		
Name of company	M/s. Bhima Sahankar Sahakari Sakhar Karkhana Ltd. Dattatraynagar, Pargaon, Village-Awasari Bk., Tal. - Ambegaon, Dist. - Pune-412 406		
Sample Collected By	Akanksha Analytical and Research Lab		
Date Of Sampling	14/12/2019	Time of Sampling: Daytime	
Report Date	23/12/2019	Inward No	Al/6-492/08/19-20
PARTICULARS OF STACK			
	Attached to	Boiler Stack (37 T/Hr.)	
	Diameter	4.00 mtr	
	Height	60 Mtr.	
	Area	12.56 m2	
	Temperature	145°C	
	Differential Pressure	0.85 mmWG	
	Material of Construction	RCC	
	Velocity of Gases	3.57 m/s	
	Volume of gas	115374.26NM3/Hr.	
POLLUTIONAL PARAMETERS			
PARAMETER	RESULTS	LIMITS	UNITS
Particulate Matter	122.4	<150	mg/Nm ³
Sulphur Dioxide	39.89	< 3886	Kg/day
Oxide of Nitrogen	266	--	mg/Nm ³
Carbon Monoxide	2954	--	ppm

REMARK & OBSERVATIONS:

All above results are within limits prescribed in the MPCB Consent.

For AKANKSHA ANALYTICAL & RESEARCH LAB

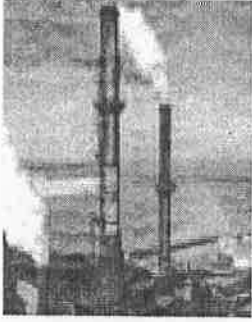

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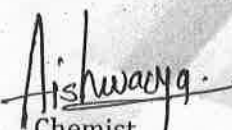
SOURCE EMISSION MONITORING REPORT			
Sample Report No.	AL/TR/AM/52-976/19-20		
Name of company	M/s. Bhima Sahankar Sahakari Sakhar Karkhana Ltd. Dattatraynagar, Pargaon, Village-Awasari Bk., Tal. - Ambegaon, Dist. - Pune-412 406		
Sample Collected By	Akanksha Analytical and Research Lab		
Date Of Sampling	14/12/2019	Time of Sampling: Daytime	
Report Date	23/12/2019	Inward No	Al/6-492/07/19-20
PARTICULARS OF STACK			
	Attached to	Boiler Stack (80 T/Hr.)	
	Diameter	3.54 Mtr	
	Height	73 Mtr.	
	Area	9.837 m ²	
	Temperature	130 °C	
	Differential Pressure	1.30 mmWG	
	Material of Construction	RCC	
	Velocity of Gases	4.34 m/s	
	Volume of gas	113813.38NM ³ /Hr.	
POLLUTIONAL PARAMETERS			
PARAMETER	RESULTS	LIMITS	UNITS
Particulate Matter	132	<150	mg/Nm ³
Sulphur Dioxide	1648	< 3886	Kg/day
Oxide of Nitrogen	322	--	mg/Nm ³
Carbon Monoxide	3195	--	ppm

REMARK & OBSERVATIONS:

All above results are within limits prescribed in the MPCB Consent.

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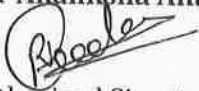
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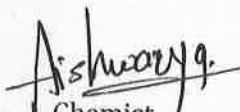
ANALYSIS REPORTS FOR AMBIENT AIR QUALITY MONITORING

NAME OF COMPANY: M/s. Bhima Sahankar Sahakari Sakhar Karkhana Ltd. Dattatraynagar, Pargaon, Village-Awasari Bk., Tal. - Ambegaon, Dist. - Pune-412 406		TR NO	AL/TR/AM/52-975/19-20
		DATE	23/12/2019
		INWARD NO.	AL/6-492/06/19-20
SAMPLE :-	COLLECTED BY	SAMPLE REF.	RECEIVED ON :
Ambient Air	AARL	Fugitive Sample Bagasse Yard	14/12/2019

Sr. No.	Parameter	Unit	RESULT	Limits Max.
5.	Particulate matter (PM ₁₀)	µg/m ³	54.2	100
6.	Particulate matter (PM _{2.5})	µg/m ³	47.9	60

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AMBIENT & WORK ZONE NOISE LEVEL MONITORING REPORT.			
Inward No : AL/TR/AM/52-978/19-20		Report No. Al/6-492/09/19-20	
Name of Client		M/s. Bhima Sahankar Sahakari Sakhar Karkhana Ltd. Dattatraynagar, Pargaon, Village-Awasari Bk., Tal. - Ambegaon, Dist. - Pune-412 406	
Sample type		Noise	
Sample Collected By		Akanksha Analytical and Research Lab	
Date of Sampling		14/12/2019	Date of Report 23/12/2019

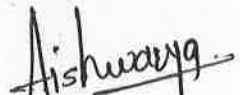
Sr. No.	Test Location	Reading	Unit	Limits in day time
1	Near Guest House	65.2	dB(A)	≤ 75 As per MPCB Standard ≤ 90 As per Factory Act. 1948
2	Near Sugar House	80.2	dB(A)	
3	Near Boiling House	82.9	dB(A)	
4	Near Mill Section	83.5	dB(A)	
5	Near Boiler Section	78.1	dB(A)	

REMARK / OBSERVATIONS:

- All above results are within limits prescribed in the MPCB Consent & Factories Act, 1948 Standards.

For AKANKSHA ANALYTICAL & RESEARCH LAB


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TEST REPORT		Page 1 of 1	
NAME OF COMPANY: M/s. Bhima Shankar sahakari sakhar karkhana Ltd. Dattatraynagar, Pargaon Village-Awasari Bk. Tal.- Ambegaon, Dist. - Pune-412406		Report No	TC724719000002278P
		Report Date	23/12/2019
		Inward No	12-125
		Inward Date	16/12/2019
Sample Detail	ETP Outlet	Analysis Start date	17/12/2019
Sample Collected By	Party	Analysis End date	19/12/2019
Sample Volume	3000 ml	Sample Condition	Fit For Analysis

Sr. No.	Parameter	Unit	Result	Limits as per MPCB Norms	Method
1.	pH@27° C	-----	7.59	5.5 to 9.0	IS 3025 (Part 11) RA 2012 Electrometric method
2.	Total Suspended Solids	mg/lit.	29.0	100 Max.	IS 3025 (Part 17) RA 2012
3.	Total Dissolved Solids	mg/lit.	822	2100 Max.	IS 3025 (Part 16) RA 2012
4.	COD	mg/lit.	102	250 Max.	IS 3025 (Part 58) RA 2012 Open Reflux Method
5.	BOD @27° C For 3 Days	mg/lit.	34.0	100 Max.	IS 3025 (Part 44) RA 2014 Azide Modification Method
6.	Chlorides	mg/lit.	109	600 Max.	IS 3025 (Part 40) RA 2009 Argentometric method
7.	*Sulphate	mg/lit.	2.86	1000 Max.	APHA-23 rd Edition 2017 4500-SO ₄ ²⁻ -E,
8.	Oil & Grease	mg/lit.	BDL	10 Max.	IS 3025 (Part 11) RA 2012 Electrometric method

REMARK, OPINION & INTERPRITATION-

- ❖ The above analysis water sample is within the prescribed limits.
- ❖ Sample will be preserve for seven days after analysis.
- ❖ Above analysis results are related to its testing.
- ❖ The contents of this test report shall not be reproduced in part or without written approval of lab incharge.
- ❖ The parameter marked with an * are not accredited by NABL.
- ❖ BDL-Below Detectable Limit.

Aishwarya
Verified by
(Analyst)

R. B. ...
Authorized Signatory

...End of test report...



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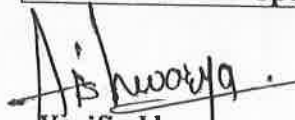
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NAME OF COMPANY:- M/s. Bhima Sahankar Sahakari Sakhar Karkhana Ltd. Dattatraynagar, Pargaon, Village-Awasari Bk., Tal. - Ambegaon, Dist. - Pune-412 406		Report No	AL/TR/53-771/19-20
		Report Date	29/01/2020
		Inward No	AL/6-565/01/19-20
		Inward Date	21/01/2020
Sample Location	Kata Gate	Sampling Time	10:40 AM
Sample Collected By	AARL	Time duration	24 Hr

SR.NO.	PARAMETER	UNIT	RESULT	LIMITS	METHOD
1.	Ambient Temperature	°C	30.2	N.S.	EPA -454/R-99-005
2.	Relative Humidity	% rh	37	N.S.	EPA -454/R-99-005
3.	Sulphur Dioxide (SO ₂)	µg/m ³	34.24	≤ 80	IS:5182(Part-2):2001
4.	Oxides of Nitrogen (NO _x)	µg/m ³	30.68	≤ 80	IS:5182(Part-6):2006
5.	Particulate matter-PM ₁₀ (less than 10 micron)	µg/m ³	72.88	≤ 100	IS:5182(Part-23):2006
6.	Particulate matter-PM _{2.5} (less than 2.5 micron)	µg/m ³	26.46	≤ 60	IS:5182(Part-23):2006
7.	Ozone (O ₃)	µg/m ³	18.21	≤ 180	IS:5182(Part-9):1974
8.	Lead (Pb)	µg/m ³	BDL	1.0	IS:5182(Part-22):2004
9.	Carbon Monoxide (CO)	mg/m ³	01.89	≤ 04	IS:5182(Part-10):1999
10.	Ammonia as (NH ₃)	µg/m ³	BDL	≤ 400	Method No.401,(Indophenols method)Method Of Air Sampeling,3 rd Edition
11.	Benzene (C ₆ H ₆)	µg/m ³	BDL	≤ 05	IS:5182 (Part 11):2006
12.	Benzo(a)Pyrene (BaP)	ng/m ³	BDL	≤ 01	IS:5182 (Part 12):2004
13.	Arsenic (As)	ng/m ³	BDL	≤ 06	IS:3025 (PART-37)
14.	Nickel (Ni)	ng/m ³	BDL	≤ 20	IS:3025 (PART-54) 2003

REMARK, OPINION & INTERPRITATION-

- ❖ All above results are within limits as per (NAAQS) National Ambient Air Quality Standards 2009.
- ❖ BDL-Below Detectable Limit. .
- ❖ N.S. -Not Specified


Verified by
(Analyst)


Authorized Signatory

...End of test report...



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ANALYSIS REPORT FOR AMBIENT AIR QUALITY MONITORING		Page 1 of 1	
NAME OF COMPANY:- M/s. Bhima Sahankar Sahakari Sakhar Karkhana Ltd. Dattatraynagar, Pargaon, Village-Awasari Bk., Tal. - Ambegaon, Dist. - Pune-412 406		Report No	AL/TR/53-772/19-20
		Report Date	29/01/2020
		Inward No	AL/6-565/02/19-20
		Inward Date	21/01/2020
Sample Location	Near New Boiler Area (Fugitive Sample)	Sampling Time	11:00 AM
Sample Collected By	AARL	Time duration	24 Hr

SR.NO.	PARAMETER	UNIT	RESULT	LIMITS	METHOD
1.	Ambient Temperature	°C	29.9	N.S.	EPA -454/R-99-005
2.	Relative Humidity	% rh	39	N.S.	EPA -454/R-99-005
3.	Sulphur Dioxide (SO ₂)	µg/m ³	11.91	≤ 80	IS:5182(Part-2):2001
4.	Oxides of Nitrogen (NO _x)	µg/m ³	13.65	≤ 80	IS:5182(Part-6):2006
5.	Particulate matter-PM ₁₀ (less than 10 micron)	µg/m ³	55.98	≤ 100	IS:5182(Part-23):2006
6.	Particulate matter-PM _{2.5} (less than 2.5 micron)	µg/m ³	36.68	≤ 60	IS:5182(Part-23):2006
7.	Ozone (O ₃)	µg/m ³	18.11	≤ 180	IS:5182(Part-9):1974
8.	Lead (Pb)	µg/m ³	BDL	≤ 1.0	IS:5182(Part-22):2004
9.	Carbon Monoxide (CO)	mg/m ³	01.03	≤ 04	IS:5182(Part-10):1999
10.	Ammonia as (NH ₃)	µg/m ³	BDL	≤ 400	Method No.401,(Indophenols method)Method Of Air Sampeling,3 rd Edition
11.	Benzene (C ₆ H ₆)	µg/m ³	BDL	≤ 05	IS:5182 (Part 11):2006
12.	Benzo(a)Pyrene (BaP)	ng/m ³	BDL	≤ 01	IS:5182 (Part 12):2004
13.	Arsenic (As)	ng/m ³	BDL	≤ 06	IS:3025 (PART-37)
14.	Nickel (Ni)	ng/m ³	BDL	≤ 20	IS:3025 (PART-54) 2003

REMARK, OPINION & INTERPRITATION-

- ❖ All above results are within limits as per (NAAQS) National Ambient Air Quality Standards 2009.
- ❖ BDL-Below Detectable Limit. .
- ❖ N.S. -Not Specified

Aishwarya
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(Analyst)

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...End of test report...



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ANALYSIS REPORT FOR AMBIENT AIR QUALITY MONITORING		Page 1 of 1	
NAME OF COMPANY:- M/s. Bhima Sahankar Sahakari Sakhar Karkhana Ltd. Dattatraynagar, Pargaon, Village-Awasari Bk., Tal. -Ambegaon, Dist.- Pune-412 406		Report No	AL/TR/53-773/19-20
		Report Date	29/01/2020
		Inward No	AL/6-565/03/19-20
		Inward Date	21/01/2020
Sample Location	Popat pingale.(South West)	Sampling Time	11:30 AM
Sample Collected By	AARL	Time duration	24 Hr

SR.NO.	PARAMETER	UNIT	RESULT	LIMITS	METHOD
1.	Ambient Temperature	°C	30.5	N.S.	EPA -454/R-99-005
2.	Relative Humidity	% rh	36	N.S.	EPA -454/R-99-005
3.	Sulphur Dioxide (SO ₂)	µg/m ³	08.95	≤ 80	IS:5182(Part-2):2001
4.	Oxides of Nitrogen (NO _x)	µg/m ³	07.78	≤ 80	IS:5182(Part-6):2006
5.	Particulate matter-PM ₁₀ (less than 10 micron)	µg/m ³	51.89	≤ 100	IS:5182(Part-23):2006
6.	Particulate matter-PM _{2.5} (less than 2.5 micron)	µg/m ³	14.71	≤ 60	IS:5182(Part-23):2006
7.	Ozone (O ₃)	µg/m ³	17.59	≤ 180	IS:5182(Part-9):1974
8.	Lead (Pb)	µg/m ³	BDL	≤ 1.0	IS:5182(Part-22):2004
9.	Carbon Monoxide (CO)	mg/m ³	00.78	≤ 04	IS:5182(Part-10):1999
10.	Ammonia as (NH ₃)	µg/m ³	BDL	≤ 400	Method No.401,(Indophenols method)Method Of Air Sampeling,3 rd Edition
11.	Benzene (C ₆ H ₆)	µg/m ³	BDL	≤ 05	IS:5182 (Part 11):2006
12.	Benzo(a)Pyrene (BaP)	ng/m ³	BDL	≤ 01	IS:5182 (Part 12):2004
13.	Arsenic (As)	ng/m ³	BDL	≤ 06	IS:3025 (PART-37)
14.	Nickel (Ni)	ng/m ³	BDL	≤ 20	IS:3025 (PART-54) 2003

REMARK,OPINION & INTERPRITATION-

- ❖ All above results are within limits as per (NAAQS) National Ambient Air Quality Standards 2009.
- ❖ BDL-Below Detectable Limit. .
- ❖ N.S. -Not Specified

Aishwarya
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(Analyst)

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Authorized Signatory

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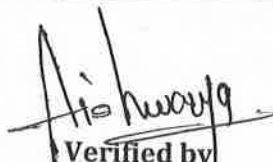
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ANALYSIS REPORT FOR AMBIENT AIR QUALITY MONITORING		Page 1 of 1	
NAME OF COMPANY:- M/s. Bhima Sahankar Sahakari Sakhar Karkhana Ltd. Dattatraynagar, Pargaon, Village-Awasari Bk., Tal. - Ambegaon, Dist. - Pune-412 406		Report No	AL/TR/53-774/19-20
		Report Date	29/01/2020
		Inward No	AL/6-565/04/19-20
		Inward Date	21/01/2020
Sample Location	Goraksh jadhav (South East)	Sampling Time	11:45 AM
Sample Collected By	AARL	Time duration	24 Hr

SR.NO.	PARAMETER	UNIT	RESULT	LIMITS	METHOD
1.	Ambient Temperature	°C	30.9	N.S.	EPA -454/R-99-005
2.	Relative Humidity	% rh	34	N.S.	EPA -454/R-99-005
3.	Sulphur Dioxide (SO ₂)	µg/m ³	07.63	≤ 80	IS:5182(Part-2):2001
4.	Oxides of Nitrogen (NO _x)	µg/m ³	06.79	≤ 80	IS:5182(Part-6):2006
5.	Particulate matter-PM ₁₀ (less than 10 micron)	µg/m ³	53.18	≤ 100	IS:5182(Part-23):2006
6.	Particulate matter-PM _{2.5} (less than 2.5 micron)	µg/m ³	14.96	≤ 60	IS:5182(Part-23):2006
7.	Ozone (O ₃)	µg/m ³	17.89	≤ 180	IS:5182(Part-9):1974
8.	Lead (Pb)	µg/m ³	BDL	≤ 1.0	IS:5182(Part-22):2004
9.	Carbon Monoxide (CO)	mg/m ³	00.71	≤ 04	IS:5182(Part-10):1999
10.	Ammonia as (NH ₃)	µg/m ³	BDL	≤ 400	Method No.401,(Indophenols method)Method Of Air Sampeling,3 rd Edition
11.	Benzene (C ₆ H ₆)	µg/m ³	BDL	≤ 05	IS:5182 (Part 11):2006
12.	Benzo(a)Pyrene (BaP)	ng/m ³	BDL	≤ 01	IS:5182 (Part 12):2004
13.	Arsenic (As)	ng/m ³	BDL	≤ 06	IS:3025 (PART-37)
14.	Nickel (Ni)	ng/m ³	BDL	≤ 20	IS:3025 (PART-54) 2003

REMARK, OPINION & INTERPRITATION-

- ❖ All above results are within limits as per (NAAQS) National Ambient Air Quality Standards 2009.
- ❖ BDL-Below Detectable Limit. .
- ❖ N.S. -Not Specified


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(Analyst)


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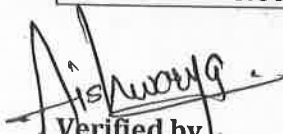
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ANALYSIS REPORT FOR AMBIENT AIR QUALITY MONITORING		Page 1 of 1	
NAME OF COMPANY:- M/s. Bhima Sahankar Sahakari Sakhar Karkhana Ltd. Dattatraynagar, Pargaon, Village-Awasari Bk., Tal. - Ambegaon, Dist. - Pune-412 406		Report No	AL/TR/53-775/19-20
		Report Date	29/01/2020
		Inward No	AL/6-565/05/19-20
		Inward Date	21/01/2020
Sample Location	Mahadev Dhobale (Nort East)	Sampling Time	12:00 PM
Sample Collected By	AARL	Time duration	24 Hr

SR.NO.	PARAMETER	UNIT	RESULT	LIMITS	METHOD
1.	Ambient Temperature	°C	30.7	N.S.	EPA -454/R-99-005
2.	Relative Humidity	% rh	35	N.S.	EPA -454/R-99-005
3.	Sulphur Dioxide (SO ₂)	µg/m ³	09.89	≤ 80	IS:5182(Part-2):2001
4.	Oxides of Nitrogen (NO _x)	µg/m ³	08.54	≤ 80	IS:5182(Part-6):2006
5.	Particulate matter-PM ₁₀ (less than 10 micron)	µg/m ³	54.39	≤ 100	IS:5182(Part-23):2006
6.	Particulate matter-PM _{2.5} (less than 2.5 micron)	µg/m ³	16.98	≤ 60	IS:5182(Part-23):2006
7.	Ozone (O ₃)	µg/m ³	18.09	≤ 180	IS:5182(Part-9):1974
8.	Lead (Pb)	µg/m ³	BDL	≤ 1.0	IS:5182(Part-22):2004
9.	Carbon Monoxide (CO)	mg/m ³	00.37	≤ 04	IS:5182(Part-10):1999
10.	Ammonia as (NH ₃)	µg/m ³	BDL	≤ 400	Method No.401,(Indophenols method)Method Of Air Sampeling,3 rd Edition
11.	Benzene (C ₆ H ₆)	µg/m ³	BDL	≤ 05	IS:5182 (Part 11):2006
12.	Benzo(a)Pyrene (BaP)	ng/m ³	BDL	≤ 01	IS:5182 (Part 12):2004
13.	Arsenic (As)	ng/m ³	BDL	≤ 06	IS:3025 (PART-37)
14.	Nickel (Ni)	ng/m ³	BDL	≤ 20	IS:3025 (PART-54) 2003

REMARK, OPINION & INTERPRITATION-

- ❖ All above results are within limits as per (NAAQS) National Ambient Air Quality Standards 2009.
- ❖ BDL-Below Detectable Limit. .
- ❖ N.S. -Not Specified


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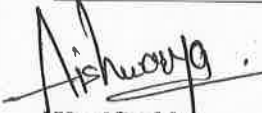
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ANALYSIS REPORT FOR AMBIENT AIR QUALITY MONITORING		Page 1 of 1	
NAME OF COMPANY:- M/s. Bhima Sahankar Sahakari Sakhar Karkhana Ltd. Dattatraynagar, Pargaon, Village-Awasari Bk., Tal. - Ambegaon, Dist. - Pune-412 406		Report No	AL/TR/53-776/19-20
		Report Date	29/01/2020
		Inward No	AL/6-565/06/19-20
		Inward Date	21/01/2020
Sample Location	Natha Chakkar (North West)	Sampling Time	12:15 PM
Sample Collected By	AARL	Time duration	24 Hr

SR.NO.	PARAMETER	UNIT	RESULT	LIMITS	METHOD
1.	Ambient Temperature	°C	30.9	N.S.	EPA -454/R-99-005
2.	Relative Humidity	% rh	34	N.S.	EPA -454/R-99-005
3.	Sulphur Dioxide (SO ₂)	µg/m ³	09.56	≤ 80	IS:5182(Part-2):2001
4.	Oxides of Nitrogen (NO _x)	µg/m ³	07.96	≤ 80	IS:5182(Part-6):2006
5.	Particulate matter-PM ₁₀ (less than 10 micron)	µg/m ³	51.98	≤ 100	IS:5182(Part-23):2006
6.	Particulate matter-PM _{2.5} (less than 2.5 micron)	µg/m ³	13.38	≤ 60	IS:5182(Part-23):2006
7.	Ozone (O ₃)	µg/m ³	17.65	≤ 180	IS:5182(Part-9):1974
8.	Lead (Pb)	µg/m ³	BDL	≤ 1.0	IS:5182(Part-22):2004
9.	Carbon Monoxide (CO)	mg/m ³	00.69	≤ 04	IS:5182(Part-10):1999
10.	Ammonia as (NH ₃)	µg/m ³	BDL	≤ 400	Method No.401,(Indophenols method)Method Of Air Sampeling,3 rd Edition
11.	Benzene (C ₆ H ₆)	µg/m ³	BDL	≤ 05	IS:5182 (Part 11):2006
12.	Benzo(a)Pyrene (BaP)	ng/m ³	BDL	≤ 01	IS:5182 (Part 12):2004
13.	Arsenic (As)	ng/m ³	BDL	≤ 06	IS:3025 (PART-37)
14.	Nickel (Ni)	ng/m ³	BDL	≤ 20	IS:3025 (PART-54) 2003

REMARK, OPINION & INTERPRITATION-

- ❖ All above results are within limits as per (NAAQS) National Ambient Air Quality Standards 2009.
- ❖ BDL-Below Detectable Limit. .
- ❖ N.S. -Not Specified


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SOURCE EMISSION MONITORING REPORT		Page 1 of 1	
NAME OF COMPANY:- M/s. Bhima Sahankar Sahakari Sakhar Karkhana Ltd. Dattatraynagar, Pargaon, Village-Awasari Bk., Tal. - Ambegaon, Dist. - Pune-412 406		Report No	AL/TR/53-777/19-20
		Report Date	29/01/2020
		Inward No	AL/6-565/07/19-20
		Inward Date	21/01/2020
Sample Location	Old Boiler (37 T/hr)	Sampling Time	3:30 PM
Sample Collected By	AARL	Time duration	30 Min

SR. NO	DESCRIPTION	UNIT	RESULT	LIMITS	METHOD
A. Stack Details					
1.	Material of stack	--	MS	N.S.	--
2.	Stack Height from G.L.	m	60	N.S.	--
3.	Type of Stack	--	Round	N.S.	--
4.	Dimensions of Stack	m	04.00	N.S.	--
5.	Stack area	m ²	12.56	N.S.	--
B. Parameters					
6.	Flue Gas Temperature	°C	132	N.S.	IS 11255 (PART 3):2008
7.	Differential Pressure	mmwg	04.62	N.S.	IS 11255 (PART 3):2008
8.	Velocity	m/s	08.21	N.S.	IS 11255 (PART 3):2008
9.	Gas volume	Nm ³ /hr.	273263.17	N.S.	IS 11255 (PART 3):2008
10.	Particulate Matter	mg/Nm ³	126.92	≤ 150	IS 11255 (PART 1):1985
11.	Sulphur Dioxide	kg/day	40.18	≤ 3886	IS 11255 (PART 2):1985
12.	Oxide of Nitrogen	mg/Nm ³	251.83	N.S.	IS 11255 (PART 7):2005
13.	Carbon Monoxide	ppm	3012.59	N.S.	IS 13270 :1992

REMARK, OPINION & INTERPRITATION-

- ❖ All above results are within limits as per MPCB Consent.
- ❖ BDL-Below Detectable Limit. .
- ❖ N.S. - Not Specified

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(Analyst)

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SOURCE EMISSION MONITORING REPORT		Page 1 of 1	
NAME OF COMPANY:- M/s. Bhima Sahankar Sahakari Sakhar Karkhana Ltd. Dattatraynagar, Pargaon, Village-Awasari Bk., Tal. - Ambegaon, Dist. - Pune-412 406		Report No	AL/TR/53-778/19-20
		Report Date	29/01/2020
		Inward No	AL/6-565/08/19-20
		Inward Date	21/01/2020
Sample Location	New Boiler (80T/hr)	Sampling Time	4:00 PM
Sample Collected By	AARL	Time duration	30 Min

SR. NO	DESCRIPTION	UNIT	RESULT	LIMITS	METHOD
A. Stack Details					
1.	Material of stack	--	MS	N.S.	--
2.	Stack Height from G.L.	m	73.00	N.S.	--
3.	Type of Stack	--	Round	N.S.	--
4.	Dimensions of Stack	m	03.54	N.S.	--
5.	Stack area	m ²	09.837	N.S.	--
B. Parameters					
6.	Flue Gas Temperature	° C	139	N.S.	IS 11255 (PART 3):2008
7.	Differential Pressure	mmwg	01.49	N.S.	IS 11255 (PART 3):2008
8.	Velocity	m/s	04.70	N.S.	IS 11255 (PART 3):2008
9.	Gas volume	Nm ³ /hr.	120508.78	N.S.	IS 11255 (PART 3):2008
10.	Particulate Matter	mg/Nm ³	121.12	≤ 150	IS 11255 (PART 1):1985
11.	Sulphur Dioxide	kg/day	1602.28	≤3886	IS 11255 (PART 2): 1985
12.	Oxide of Nitrogen	mg/Nm ³	343.21	N.S.	IS 11255 (PART 7):2005
13.	Carbon Monoxide	ppm	2824.00	N.S.	IS 13270 :1992

REMARK, OPINION & INTERPRITATION-

- ❖ All above results are within limits as per MPCB Consent.
- ❖ BDL-Below Detectable Limit. .
- ❖ N.S. - Not Specified

Aishwarya
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(Analyst)

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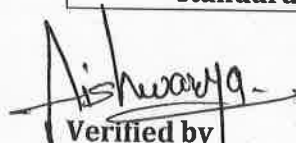
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AMBIENT & WORK ZONE NOISE LEVEL MONITORING REPORT		Page 1 of 1	
NAME OF COMPANY:- M/s. Bhima Sahankar Sahakari Sakhar Karkhana Ltd. Dattatraynagar, Pargaon, Village-Awasari Bk., Tal. - Ambegaon, Dist. - Pune-412 406		Report No	AL/TR/53-779/19-20
		Report Date	29/01/2020
		Inward No	AL/6-565/09/19-20
		Inward Date	21/01/2020
Sample Location	Company Premises	Sampling Time	01:00 Pm To 01:50 Pm
Sample Collected By	AARL	Time duration	50 Min

SR. NO	LOCATIONS	UNIT	RESULT	LIMITS	METHOD
			DAY TIME		
1.	Near New Boiler Area	dB(A)	71.3	≤ 75 dB(A)	IS 4758-1968 (PART 10) RA 2002
2.	College /Colony Area	dB(A)	48.2		
3.	Mill Section Near Fibriser	dB(A)	87.2	≤ 90 dB(A)	IS 9989-1981 (RA 2001)
4.	Centry - Fugal Section	dB(A)	85.6		
5.	Sugar house	dB(A)	82.8		

REMARK, OPINION & INTERPRITATION-

- ❖ All above results are within limits as per MPCB Consent & The Factories Act 1948, standards.


Verified by
(Analyst)


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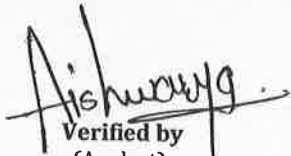
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TEST REPORT		Page 1 of 1
NAME OF COMPANY: M/s. Bhima Shankar sahakari sakhar karkhana Ltd. Dattatraynagar, Pargaon Village-Awasari Bk. Tal.- Ambegaon, Dist. - Pune-412406		Report No TC724720000000217P
		Report Date 27/01/2020
		Inward No 01-195
		Inward Date 22/01/2020
Sample Detail	ETP Composite Inlet	Analysis Start date 22/01/2020
Sample Collected By	Party	Analysis End date 25/01/2020
Sample Volume	3000 ml	Sample Condition Fit For Analysis

Sr. No.	Parameter	Unit	Result	Method
1.	pH@25° C	-----	12.0	IS 3025 (Part 11) RA 2012 Electrometric method
2.	Total Suspended Solids	mg/lit.	5480	IS 3025 (Part 17) RA 2012
3.	Total Dissolved Solids	mg/lit.	26780	IS 3025 (Part 16) RA 2012
4.	COD	mg/lit.	60574	IS 3025 (Part 58) RA 2012 Open Reflux Method
5.	BOD @27° C For 3 Days	mg/lit.	20192	IS 3025 (Part 44) RA 2014 Azide Modification Method
6.	Chlorides	mg/lit.	11660	IS 3025 (Part 32) RA 2009 Argentometric method
7.	*Sulphate	mg/lit.	5.76	APHA-23 rd Edition 2017 4500-SO ₄ ²⁻ -E,
8.	Oil & Grease	mg/lit.	282	APHA 23 rd Edition 2017 5520 B

REMARK, OPINION & INTERPRITATION-

- ❖ Sample will be preserve for seven days after analysis.
- ❖ Above analysis results are related to its testing.
- ❖ The contents of this test report shall not be reproduced in part or without written approval of lab incharge.
- ❖ The parameter marked with an * are not accredited by NABL.
- ❖ BDL-Below Detectable Limit.


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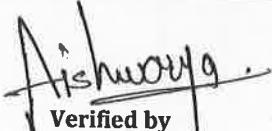
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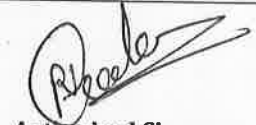
TEST REPORT		Page 1 of 1
NAME OF COMPANY: M/s. Bhima Shankar sahakari sakhar karkhana Ltd. Dattatraynagar, Pargaon Village-Awasari Bk. Tal.- Ambegaon, Dist. - Pune-412406		Report No TC724720000000219P
Sample Detail		Report Date 27/01/2020
Sample Collected By		Inward No 01-197
Sample Volume		Inward Date 22/01/2020
ETP Final Outlet		Analysis Start date 22/01/2020
Party		Analysis End date 25/01/2020
3000 ml		Sample Condition Fit For Analysis

Sr. No.	Parameter	Unit	Result	Limits as per MPCB Norms	Method
1.	pH@25° C	-----	8.23	5.5 to 9.0	IS 3025 (Part 11) RA 2012 Electrometric method
2.	Total Suspended Solids	mg/lit.	36.7	≤100	IS 3025 (Part 17) RA 2012
3.	Total Dissolved Solids	mg/lit.	1288	≤2100	IS 3025 (Part 16) RA 2012
4.	COD	mg/lit.	97.2	≤250	IS 3025 (Part 58) RA 2012 Open Reflux Method
5.	BOD @27° C For 3 Days	mg/lit.	32.0	≤100	IS 3025 (Part 44) RA 2014 Azide Modification Method
6.	Chlorides	mg/lit.	134	≤600	IS 3025 (Part 32) RA 2009 Argentometric method
7.	*Sulphate	mg/lit.	12.5	≤1000	APHA-23 rd Edition 2017 4500-SO ₄ ²⁻ -E,
8.	Oil & Grease	mg/lit.	BDL	≤10.0	APHA 23 rd Edition 2017 5520 B

REMARK, OPINION & INTERPRITATION-

- ❖ The above analysis water sample is within the prescribed limits.
- ❖ Sample will be preserve for seven days after analysis.
- ❖ Above analysis results are related to its testing.
- ❖ The contents of this test report shall not be reproduced in part or without written approval of lab incharge.
- ❖ The parameter marked with an * are not accredited by NABL.
- ❖ BDL-Below Detectable Limit.


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(Analyst)


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...End of test report...



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ANALYSIS REPORT FOR AMBIENT AIR QUALITY MONITORING		Page 1 of 1	
NAME OF COMPANY:- M/s. Bhima Sahankar Sahakari Sakhar Karkhana Ltd. Dattatraynagar, Pargaon, Village-Awasari Bk., Tal. - Ambegaon, Dist. - Pune-412 406		Report No	AL/TR/54-301/19-20
		Report Date	27/02/2020
		Inward No	AL/6-606/04/19-20
		Inward Date	20/02/2020
Sample Location	Bharat Shete (East)	Sampling Time	11:55 AM
Sample Collected By	AARL	Time duration	08 Hr

SR.NO.	PARAMETER	UNIT	RESULT	LIMITS	METHOD
1.	Ambient Temperature	°C	33.7	N.S.	EPA -454/R-99-005
2.	Relative Humidity	% rh	35	N.S.	EPA -454/R-99-005
3.	Sulphur Dioxide (SO ₂)	µg/m ³	13.44	≤ 80	IS:5182(Part-2):2001
4.	Oxides of Nitrogen (NO _x)	µg/m ³	10.71	≤ 80	IS:5182(Part-6):2006
5.	Particulate matter-PM ₁₀ (less than 10 micron)	µg/m ³	54.65	≤ 100	IS:5182(Part-23):2006
6.	Particulate matter-PM _{2.5} (less than 2.5 micron)	µg/m ³	17.42	≤ 60	IS:5182(Part-23):2006
7.	Ozone (O ₃)	µg/m ³	18.03	≤ 180	IS:5182(Part-9):1974
8.	Lead (Pb)	µg/m ³	BDL	≤ 1.0	IS:5182(Part-22):2004
9.	Carbon Monoxide (CO)	mg/m ³	01.01	≤ 04	IS:5182(Part-10):1999
10.	Ammonia as (NH ₃)	µg/m ³	BDL	≤ 400	Method No.401,(Indophenols method)Method Of Air Sampeling,3 rd Edition
11.	Benzene (C ₆ H ₆)	µg/m ³	BDL	≤ 05	IS:5182 (Part 11):2006
12.	Benzo(a)Pyrene (BaP)	ng/m ³	BDL	≤ 01	IS:5182 (Part 12):2004
13.	Arsenic (As)	ng/m ³	BDL	≤ 06	IS:3025 (PART-37)
14.	Nickel (Ni)	ng/m ³	BDL	≤ 20	IS:3025 (PART-54) 2003

REMARK, OPINION & INTERPRITATION-

- ❖ All above results are within limits as per (NAAQS) National Ambient Air Quality Standards 2009.
- ❖ BDL-Below Detectable Limit. .
- ❖ N.S. -Not Specified


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...End of test report...



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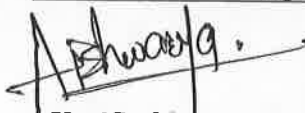
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ANALYSIS REPORT FOR AMBIENT AIR QUALITY MONITORING		Page 1 of 1	
NAME OF COMPANY:- M/s. Bhima Sahankar Sahakari Sakhar Karkhana Ltd. Dattatraynagar, Pargaon, Village-Awasari Bk., Tal. - Ambegaon, Dist. - Pune-412 406		Report No	AL/TR/54-298/19-20
		Report Date	27/02/2020
		Inward No	AL/6-606/01/19-20
		Inward Date	20/02/2020
Sample Location	Sunil Changan (West)	Sampling Time	11:00 AM
Sample Collected By	AARL	Time duration	08 Hr

SR.NO.	PARAMETER	UNIT	RESULT	LIMITS	METHOD
1.	Ambient Temperature	°C	33.4	N.S.	EPA -454/R-99-005
2.	Relative Humidity	% rh	37	N.S.	EPA -454/R-99-005
3.	Sulphur Dioxide (SO ₂)	µg/m ³	13.41	≤ 80	IS:5182(Part-2):2001
4.	Oxides of Nitrogen (NO _x)	µg/m ³	11.56	≤ 80	IS:5182(Part-6):2006
5.	Particulate matter-PM ₁₀ (less than 10 micron)	µg/m ³	52.74	≤ 100	IS:5182(Part-23):2006
6.	Particulate matter-PM _{2.5} (less than 2.5 micron)	µg/m ³	18.65	≤ 60	IS:5182(Part-23):2006
7.	Ozone (O ₃)	µg/m ³	17.92	≤ 180	IS:5182(Part-9):1974
8.	Lead (Pb)	µg/m ³	BDL	1.0	IS:5182(Part-22):2004
9.	Carbon Monoxide (CO)	mg/m ³	01.44	≤ 04	IS:5182(Part-10):1999
10.	Ammonia as (NH ₃)	µg/m ³	BDL	≤ 400	Method No.401,(Indophenols method)Method Of Air Sampeling,3 rd Edition
11.	Benzene (C ₆ H ₆)	µg/m ³	BDL	≤ 05	IS:5182 (Part 11):2006
12.	Benzo(a)Pyrene (BaP)	ng/m ³	BDL	≤ 01	IS:5182 (Part 12):2004
13.	Arsenic (As)	ng/m ³	BDL	≤ 06	IS:3025 (PART-37)
14.	Nickel (Ni)	ng/m ³	BDL	≤ 20	IS:3025 (PART-54) 2003

REMARK, OPINION & INTERPRITATION-

- ❖ All above results are within limits as per (NAAQS) National Ambient Air Quality Standards 2009.
- ❖ BDL-Below Detectable Limit..
- ❖ N.S. -Not Specified


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(Analyst)


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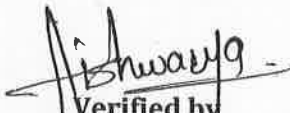
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ANALYSIS REPORT FOR AMBIENT AIR QUALITY MONITORING		Page 1 of 1	
NAME OF COMPANY:- M/s. Bhima Sahankar Sahakari Sakhar Karkhana Ltd. Dattatraynagar, Pargaon, Village-Awasari Bk., Tal. - Ambegaon, Dist. - Pune-412 406		Report No	AL/TR/54-299/19-20
		Report Date	27/02/2020
		Inward No	AL/6-606/02/19-20
		Inward Date	20/02/2020
Sample Location	Ashok Jadhav (South)	Sampling Time	11:15 AM
Sample Collected By	AARL	Time duration	08 Hr

SR.NO.	PARAMETER	UNIT	RESULT	LIMITS	METHOD
1.	Ambient Temperature	°C	33.6	N.S.	EPA -454/R-99-005
2.	Relative Humidity	% rh	36	N.S.	EPA -454/R-99-005
3.	Sulphur Dioxide (SO ₂)	µg/m ³	14.74	≤ 80	IS:5182(Part-2):2001
4.	Oxides of Nitrogen (NO _x)	µg/m ³	12.68	≤ 80	IS:5182(Part-6):2006
5.	Particulate matter-PM ₁₀ (less than 10 micron)	µg/m ³	54.74	≤ 100	IS:5182(Part-23):2006
6.	Particulate matter-PM _{2.5} (less than 2.5 micron)	µg/m ³	18.47	≤ 60	IS:5182(Part-23):2006
7.	Ozone (O ₃)	µg/m ³	17.68	≤ 180	IS:5182(Part-9):1974
8.	Lead (Pb)	µg/m ³	BDL	≤ 1.0	IS:5182(Part-22):2004
9.	Carbon Monoxide (CO)	mg/m ³	01.16	≤ 04	IS:5182(Part-10):1999
10.	Ammonia as (NH ₃)	µg/m ³	BDL	≤ 400	Method No.401,(Indophenols method)Method Of Air Sampeling,3 rd Edition
11.	Benzene (C ₆ H ₆)	µg/m ³	BDL	≤ 05	IS:5182 (Part 11):2006
12.	Benzo(a)Pyrene (BaP)	ng/m ³	BDL	≤ 01	IS:5182 (Part 12):2004
13.	Arsenic (As)	ng/m ³	BDL	≤ 06	IS:3025 (PART-37)
14.	Nickel (Ni)	ng/m ³	BDL	≤ 20	IS:3025 (PART-54) 2003

REMARK, OPINION & INTERPRITATION-

- ❖ All above results are within limits as per (NAAQS) National Ambient Air Quality Standards 2009.
- ❖ BDL-Below Detectable Limit. .
- ❖ N.S. -Not Specified


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ANALYSIS REPORT FOR AMBIENT AIR QUALITY MONITORING		Page 1 of 1	
NAME OF COMPANY:- M/s. Bhima Sahankar Sahakari Sakhar Karkhana Ltd. Dattatraynagar, Pargaon, Village-Awasari Bk., Tal. -Ambegaon, Dist.- Pune-412 406		Report No	AL/TR/54-300/19-20
		Report Date	27/02/2020
		Inward No	AL/6-606/03/19-20
		Inward Date	20/02/2020
Sample Location	Mahadu chakkar (North)	Sampling Time	11:35 AM
Sample Collected By	AARL	Time duration	08 Hr

SR.NO.	PARAMETER	UNIT	RESULT	LIMITS	METHOD
1.	Ambient Temperature	°C	33.5	N.S.	EPA -454/R-99-005
2.	Relative Humidity	% rh	36	N.S.	EPA -454/R-99-005
3.	Sulphur Dioxide (SO ₂)	µg/m ³	11.84	≤ 80	IS:5182(Part-2):2001
4.	Oxides of Nitrogen (NO _x)	µg/m ³	09.97	≤ 80	IS:5182(Part-6):2006
5.	Particulate matter-PM ₁₀ (less than 10 micron)	µg/m ³	52.47	≤ 100	IS:5182(Part-23):2006
6.	Particulate matter-PM _{2.5} (less than 2.5 micron)	µg/m ³	17.82	≤ 60	IS:5182(Part-23):2006
7.	Ozone (O ₃)	µg/m ³	17.82	≤ 180	IS:5182(Part-9):1974
8.	Lead (Pb)	µg/m ³	BDL	≤ 1.0	IS:5182(Part-22):2004
9.	Carbon Monoxide (CO)	mg/m ³	00.88	≤ 04	IS:5182(Part-10):1999
10.	Ammonia as (NH ₃)	µg/m ³	BDL	≤ 400	Method No.401,(Indophenols method)Method Of Air Sampeling,3 rd Edition
11.	Benzene (C ₆ H ₆)	µg/m ³	BDL	≤ 05	IS:5182 (Part 11):2006
12.	Benzo(a)Pyrene (BaP)	ng/m ³	BDL	≤ 01	IS:5182 (Part 12):2004
13.	Arsenic (As)	ng/m ³	BDL	≤ 06	IS:3025 (PART-37)
14.	Nickel (Ni)	ng/m ³	BDL	≤ 20	IS:3025 (PART-54) 2003

REMARK, OPINION & INTERPRITATION-

- ❖ All above results are within limits as per (NAAQS) National Ambient Air Quality Standards 2009.
- ❖ BDL-Below Detectable Limit. .
- ❖ N.S. -Not Specified

Aishwarya
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(Analyst)

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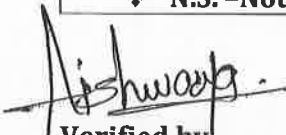
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ANALYSIS REPORT FOR AMBIENT AIR QUALITY MONITORING		Page 1 of 1	
NAME OF COMPANY:- M/s. Bhima Sahankar Sahakari Sakhar Karkhana Ltd. Dattatraynagar, Pargaon, Village-Awasari Bk., Tal. - Ambegaon, Dist. - Pune-412 406		Report No	AL/TR/54-302/19-20
		Report Date	27/02/2020
		Inward No	AL/6-606/05/19-20
		Inward Date	20/02/2020
Sample Location	Near Khandoba Mandir (Factory Premises)	Sampling Time	12:10 PM
Sample Collected By	AARL	Time duration	08 Hr

SR.NO.	PARAMETER	UNIT	RESULT	LIMITS	METHOD
1.	Ambient Temperature	°C	33.2	N.S.	EPA -454/R-99-005
2.	Relative Humidity	% rh	38	N.S.	EPA -454/R-99-005
3.	Sulphur Dioxide (SO ₂)	µg/m ³	12.45	≤ 80	IS:5182(Part-2):2001
4.	Oxides of Nitrogen (NO _x)	µg/m ³	11.69	≤ 80	IS:5182(Part-6):2006
5.	Particulate matter-PM ₁₀ (less than 10 micron)	µg/m ³	64.52	≤ 100	IS:5182(Part-23):2006
6.	Particulate matter-PM _{2.5} (less than 2.5 micron)	µg/m ³	22.52	≤ 60	IS:5182(Part-23):2006
7.	Ozone (O ₃)	µg/m ³	17.79	≤ 180	IS:5182(Part-9):1974
8.	Lead (Pb)	µg/m ³	BDL	≤ 1.0	IS:5182(Part-22):2004
9.	Carbon Monoxide (CO)	mg/m ³	00.67	≤ 04	IS:5182(Part-10):1999
10.	Ammonia as (NH ₃)	µg/m ³	BDL	≤ 400	Method No.401,(Indophenols method)Method Of Air Sampeling,3 rd Edition
11.	Benzene (C ₆ H ₆)	µg/m ³	BDL	≤ 05	IS:5182 (Part 11):2006
12.	Benzo(a)Pyrene (BaP)	ng/m ³	BDL	≤ 01	IS:5182 (Part 12):2004
13.	Arsenic (As)	ng/m ³	BDL	≤ 06	IS:3025 (PART-37)
14.	Nickel (Ni)	ng/m ³	BDL	≤ 20	IS:3025 (PART-54) 2003

REMARK, OPINION & INTERPRITATION-

- ❖ All above results are within limits as per (NAAQS) National Ambient Air Quality Standards 2009.
- ❖ BDL-Below Detectable Limit. .
- ❖ N.S. -Not Specified


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(Analyst)


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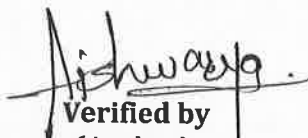
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ANALYSIS REPORT FOR AMBIENT AIR QUALITY MONITORING		Page 1 of 1	
NAME OF COMPANY:- M/s. Bhima Sahankar Sahakari Sakhar Karkhana Ltd. Dattatraynagar, Pargaon, Village-Awasari Bk., Tal. - Ambegaon, Dist. - Pune-412 406		Report No	AL/TR/54-303/19-20
		Report Date	27/02/2020
		Inward No	AL/6-606/06/19-20
		Inward Date	20/02/2020
Sample Location	Near Old Stack	Sampling Time	12:20 PM
Sample Collected By	AARL	Time duration	08 Hr

SR.NO.	PARAMETER	UNIT	RESULT	LIMITS	METHOD
1.	Ambient Temperature	°C	33.9	N.S.	EPA -454/R-99-005
2.	Relative Humidity	% rh	35	N.S.	EPA -454/R-99-005
3.	Sulphur Dioxide (SO ₂)	µg/m ³	17.25	≤ 80	IS:5182(Part-2):2001
4.	Oxides of Nitrogen (NO _x)	µg/m ³	15.74	≤ 80	IS:5182(Part-6):2006
5.	Particulate matter-PM ₁₀ (less than 10 micron)	µg/m ³	79.36	≤ 100	IS:5182(Part-23):2006
6.	Particulate matter-PM _{2.5} (less than 2.5 micron)	µg/m ³	26.74	≤ 60	IS:5182(Part-23):2006
7.	Ozone (O ₃)	µg/m ³	18.14	≤ 180	IS:5182(Part-9):1974
8.	Lead (Pb)	µg/m ³	BDL	≤ 1.0	IS:5182(Part-22):2004
9.	Carbon Monoxide (CO)	mg/m ³	01.22	≤ 04	IS:5182(Part-10):1999
10.	Ammonia as (NH ₃)	µg/m ³	BDL	≤ 400	Method No.401,(Indophenols method)Method Of Air Sampeling,3 rd Edition
11.	Benzene (C ₆ H ₆)	µg/m ³	BDL	≤ 05	IS:5182 (Part 11):2006
12.	Benzo(a)Pyrene (BaP)	ng/m ³	BDL	≤ 01	IS:5182 (Part 12):2004
13.	Arsenic (As)	ng/m ³	BDL	≤ 06	IS:3025 (PART-37)
14.	Nickel (Ni)	ng/m ³	BDL	≤ 20	IS:3025 (PART-54) 2003

REMARK, OPINION & INTERPRITATION-

- ❖ All above results are within limits as per (NAAQS) National Ambient Air Quality Standards 2009.
- ❖ BDL-Below Detectable Limit. .
- ❖ N.S. -Not Specified


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(Analyst)


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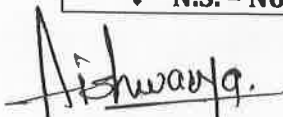
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SOURCE EMISSION MONITORING REPORT		Page 1 of 1	
NAME OF COMPANY:- M/s. Bhima Sahankar Sahakari Sakhar Karkhana Ltd. Dattatraynagar, Pargaon, Village-Awasari Bk., Tal. - Ambegaon, Dist. - Pune-412 406		Report No	AL/TR/54-304/19-20
		Report Date	27/02/2020
		Inward No	AL/6-606/07/19-20
		Inward Date	20/02/2020
Sample Location	Old Boiler (37 T/hr)	Sampling Time	02:50 PM
Sample Collected By	AARL	Time duration	30 Min

SR. NO	DESCRIPTION	UNIT	RESULT	LIMITS	METHOD
A. Stack Details					
1.	Material of stack	--	MS	N.S.	--
2.	Stack Height from G.L.	m	60	N.S.	--
3.	Type of Stack	--	Round	N.S.	--
4.	Dimensions of Stack	m	04.00	N.S.	--
5.	Stack area	m ²	12.56	N.S.	--
B. Parameters					
6.	Flue Gas Temperature	°C	141	N.S.	IS 11255 (PART 3):2008
7.	Differential Pressure	mmwg	04.60	N.S.	IS 11255 (PART 3):2008
8.	Velocity	m/s	08.28	N.S.	IS 11255 (PART 3):2008
9.	Gas volume	Nm ³ /hr.	269690.95	N.S.	IS 11255 (PART 3):2008
10.	Particulate Matter	mg/Nm ³	124.84	≤ 150	IS 11255 (PART 1):1985
11.	Sulphur Dioxide	kg/day	44.36	≤3886	IS 11255 (PART 2):1985
12.	Oxide of Nitrogen	mg/Nm ³	242.65	N.S.	IS 11255 (PART 7):2005
13.	Carbon Monoxide	ppm	3036.74	N.S.	IS 13270 :1992

REMARK, OPINION & INTERPRITATION-

- ❖ All above results are within limits as per MPCB Consent.
- ❖ BDL-Below Detectable Limit. .
- ❖ N.S. - Not Specified


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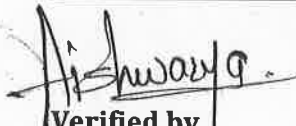
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SOURCE EMISSION MONITORING REPORT		Page 1 of 1	
NAME OF COMPANY:- M/s. Bhima Sahankar Sahakari Sakhar Karkhana Ltd. Dattatraynagar, Pargaon, Village-Awasari Bk., Tal. - Ambegaon, Dist. - Pune-412 406		Report No	AL/TR/54-305/19-20
		Report Date	27/02/2020
		Inward No	AL/6-606/08/19-20
		Inward Date	20/02/2020
Sample Location	New Boiler (80T/hr)	Sampling Time	02:10 PM
Sample Collected By	AARL	Time duration	30 Min

SR. NO	DESCRIPTION	UNIT	RESULT	LIMITS	METHOD
A. Stack Details					
1.	Material of stack	--	MS	N.S.	--
2.	Stack Height from G.L.	m	73.00	N.S.	--
3.	Type of Stack	--	Round	N.S.	--
4.	Dimensions of Stack	m	03.54	N.S.	--
5.	Stack area	m ²	09.837	N.S.	--
B. Parameters					
6.	Flue Gas Temperature	° C	132	N.S.	IS 11255 (PART 3):2008
7.	Differential Pressure	mmwg	01.45	N.S.	IS 11255 (PART 3):2008
8.	Velocity	m/s	04.60	N.S.	IS 11255 (PART 3):2008
9.	Gas volume	Nm ³ /hr.	119903.16	N.S.	IS 11255 (PART 3):2008
10.	Particulate Matter	mg/Nm ³	117.36	≤ 150	IS 11255 (PART 1):1985
11.	Sulphur Dioxide	kg/day	1584.36	≤3886	IS 11255 (PART 2): 1985
12.	Oxide of Nitrogen	mg/Nm ³	351.41	N.S.	IS 11255 (PART 7):2005
13.	Carbon Monoxide	ppm	2791.02	N.S.	IS 13270 :1992

REMARK, OPINION & INTERPRITATION-

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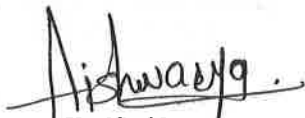
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TEST REPORT		Page 1 of 1
NAME OF COMPANY: M/s. Bhima Shankar sahakari sakhar karkhana Ltd. Dattatraynagar, Pargaon Village-Awasari Bk. Tal.- Ambegaon, Dist. - Pune-412406		Report No TC724720000000495P
		Report Date 27/02/2020
		Inward No 02-210
		Inward Date 20/02/2020
Sample Detail	ETP Composite Inlet	Analysis Start date 22/02/2020
Sample Collected By	Party	Analysis End date 25/02/2020
Sample Volume	3000 ml	Sample Condition Fit For Analysis

Sr. No.	Parameter	Unit	Result	Limits as per MPCB Norms	Method
1.	pH@25° C	-----	4.00	5.5 to 9.0	IS 3025 (Part 11) RA 2012 Electrometric method
2.	Total Suspended Solids	mg/lit.	7923	≤100	IS 3025 (Part 17) RA 2012 Gravimetric method
3.	Total Dissolved Solids	mg/lit.	24539	≤2100	IS 3025 (Part 16) RA 2012 Gravimetric method
4.	COD	mg/lit.	79770	≤250	IS 3025 (Part 58) RA 2012 Open Reflux Method
5.	BOD @27° C For 3 Days	mg/lit.	27500	≤100	IS 3025 (Part 44) RA 2014 Azide Modification Method
6.	Chlorides	mg/lit.	10997	≤600	IS 3025 (Part 32) RA 2009 Argentometric method
7.	*Sulphate	mg/lit.	5.13	≤1000	APHA-23 rd Edition 2017 4500-E-SO ₄ ²⁻
8.	Oil & Grease	mg/lit.	97.7	≤10.0	APHA 23 rd Edition 2017 5520 B

REMARK, OPINION & INTERPRITATION-

- ❖ The above analysis water sample is not within the prescribed limits.
- ❖ Sample will be preserve for seven days after analysis.
- ❖ Above analysis results are related to its testing.
- ❖ The contents of this test report shall not be reproduced in part or without written approval of lab incharge.
- ❖ The parameter marked with an * are not accredited by NABL.
- ❖ BDL-Below Detectable Limit.


Verified by
(Analyst)


Authorized Signatory

...End of test report...



AKANKSHA ANALYTICAL & RESEARCH LAB

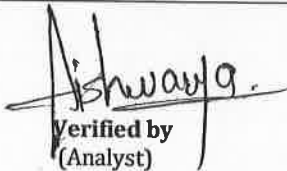
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- Authorized by "AGMARK"
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TEST REPORT		Page 1 of 1	
NAME OF COMPANY: M/s. Bhima Shankar sahakari sakhar karkhana Ltd. Dattatraynagar, Pargaon Village-Awasari Bk. Tal.- Ambegaon, Dist. - Pune-412406		Report No	TC724720000000498P
Sample Detail		Report Date	27/02/2020
Sample Collected By		Inward No	02-213
Sample Volume		Inward Date	20/02/2020
ETP Final Outlet		Analysis Start date	22/02/2020
Party		Analysis End date	25/02/2020
3000 ml		Sample Condition	Fit For Analysis

Sr. No.	Parameter	Unit	Result	Limits as per MPCB Norms	Method
1.	pH@25° C	-----	7.65	5.5 to 9.0	IS 3025 (Part 11) RA 2012 Electrometric method
2.	Total Suspended Solids	mg/lit.	54.0	≤100	IS 3025 (Part 17) RA 2012 Gravimetric method
3.	Total Dissolved Solids	mg/lit.	1228	≤2100	IS 3025 (Part 16) RA 2012 Gravimetric method
4.	COD	mg/lit.	131	≤250	IS 3025 (Part 58) RA 2012 Open Reflux Method
5.	BOD @27° C For 3 Days	mg/lit.	43.0	≤100	IS 3025 (Part 44) RA 2014 Azide Modification Method
6.	Chlorides	mg/lit.	60.0	≤600	IS 3025 (Part 32) RA 2009 Argentometric method
7.	*Sulphate	mg/lit.	5.35	≤1000	APHA-23 rd Edition 2017 4500-E-SO ₄ ²⁻
8.	Oil & Grease	mg/lit.	BDL	≤10.0	APHA 23 rd Edition 2017 5520 B

REMARK, OPINION & INTERPRITATION-

- ❖ The above analysis water sample is within the prescribed limits.
- ❖ Sample will be preserve for seven days after analysis.
- ❖ Above analysis results are related to its testing.
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- ❖ The parameter marked with an * are not accredited by NABL.
- ❖ BDL-Below Detectable Limit.


Verified by
(Analyst)


Authorized Signatory

...End of test report...



AKANKSHA ANALYTICAL & RESEARCH LAB

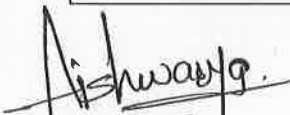
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AMBIENT & WORK ZONE NOISE LEVEL MONITORING REPORT		Page 1 of 1	
NAME OF COMPANY:- M/s. Bhima Sahankar Sahakari Sakhar Karkhana Ltd. Dattatraynagar, Pargaon, Village-Awasari Bk., Tal. - Ambegaon, Dist. - Pune-412 406		Report No	AL/TR/54-306/19-20
		Report Date	27/02/2020
		Inward No	AL/6-606/09/19-20
		Inward Date	20/02/2020
Sample Location	Company Premises	Sampling Time	03:05 PM To 03:35 PM
Sample Collected By	AARL	Time duration	30 Min

SR. NO	LOCATIONS	UNIT	RESULT	LIMITS	METHOD
			DAY TIME		
A. Outside of Shop					
1.	Near Khandoba Mandir	dB(A)	64.2	≤ 75 dB(A)	IS 4758-1968 (PART 10) RA 2002
2.	Near College	dB(A)	65.7		
B. Inside of Shop					
3.	Sugar Godaun	dB(A)	67.2	≤ 90 dB(A)	IS 9989-1981 (RA 2001)
4.	Pan Section	dB(A)	70.3		
5.	New Boiler Section	dB(A)	82.2		
6.	Near mill House	dB(A)	72.4		

REMARK, OPINION & INTERPRITATION-

- ❖ All above results are within limits as per MPCB Consent & The Factories Act 1948, standards.


Verified by
(Analyst)


Authorized Signatory

...End of test report...